

Ambuja Cement

89670

REGD. A/D

ACL/EMD/F-16/2021/2413

06.11.2021

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 Status Report of Environmental Clearance of **Solaj Mines**.

Ref.: Environmental Clearance Order No. J-11015/177/2006-IA-II (M) dated 06.03.07 .

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(April'2021 to September'2021)** of Environmental Clearance Order No. J-11015/177/2006-IA-II(M) granted by MoEF to **Solaj Mines** of Ambuja Cements Ltd., located at village - Solaj, Taluka-Sutrapada, District – Gir Somnath (Gujarat).

Thanking you,

Yours Faithfully,
For Ambuja Cements Ltd.



Singh **Devendra Singh Chauhan**
Head-Environment

Encl.: As above.

Copy to:

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

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

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

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

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment, Forest and Climate Change

Regional Office (W), Bhopal

Monitoring Report

Part-I

DATA SHEET

01	Project type	:	Mining
02	Name of the project	:	Solaj Limestone Mine
03	Clearance letter(s) / OM no. and date	:	J-11015/177/2006- IA, II (M), 6 th March 2007
04	Location	:	
	a) District(s)	:	Gir Somnath
	b) State(s)	:	Gujarat
	c) Latitude	:	20°50' 11" - 20°51' 30"
	d) Longitude	:	70°36'24" - 70°38'24"
05	Address for correspondence	:	
	a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers).	:	Sh. Anupam Agrawal Manufacturing Cluster Head (W&S) 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.	:	(Mines is Not in operation. From-1 is Submitted to DGMS)
06	Salient features	:	
	a) of the project	:	Ambuja Cements Ltd. has cement manufacturing plant at Ambujanagar in Kodinar Taluka of Gir Somnath District. Limestone & Marl are the main raw materials for the cement plants. The materials are being exploited from company's own captive mines i.e. Solaj Limestone Mine. Solaj is located at a distance of about 12 kms in WNW direction with respect to cement plant. The rated capacity of the limestone & marl is 1.0 & 0.4 MTPA respectively.
	b) of the environmental management plans	:	<ul style="list-style-type: none"> Mining operations do not involve drilling and blasting for material rising. Limestone excavation is being carried out by Surface Miner, direct excavation by excavators and ripper dozer. Regular monitoring of environmental parameters is being undertaken as per statutory requirements. Regular preventive maintenance of HEMM is being undertaken. Water sprinkling on haul roads and in working area is being carried out on regular basis for dust suppression. Afforestation / Green belt development carried out along haul road and lease periphery, mines office, mined out area etc. Mined-out areas to be converted to pasture land or to be rehabilitated by afforestation or converted to water reservoirs as per approved mining plan. Literacy drive and Socio-economic improvement measures are undertaken in the project buffer zone and is in progress.
07	Break up of the project area.	:	
	a) Submergence area (forest & non-forest)	:	Not applicable
	b) Others	:	200.8184 ha (Gauchar land)
08	Break up of the project affected population with enumeration of those a houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan.	:	Rehabilitation or evacuation not involved while executing the project and the same conditions are existing.



	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.	: Rs. 250 Lakhs
	b) Allocation made for environmental management plans with item wise and year wise break-up.	: Rs. 7.94 Cr.
	c) Benefit cost ratio / Internal rate of return and the year of assessment.	: No separate assessment made for this project.
	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. 7.47 Cr.
	f) Actual expenditure incurred on the environmental management plans so far.	: Rs. 9.78 Cr.
10	Forest land requirement.	:
	a) The status of approval for diversion of forest land for non-forestry use.	: The project area does not comprise of any forest land.
	b) The status of clearing felling	: Not applicable.
	c) The status of compensatory afforestation, if any	: Not applicable.
	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.	: The project site mostly comprises of barren waste land only. It does not involve felling of trees.
12	Status of construction.	:
	a) Date of commencement (Actual & / or planned)	: 5 th December 1996
	b) Date of completion (Actual and / or planned).	: Continued
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 Regional Office, Bhopal
	b) Date of site visit for this monitoring report	: 12.10.10 to 13.10.10
15	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits).	: Half yearly compliance status report is being regularly submitted and last submission was on 17.05.2021 vide letter no. ACL/EMD/F-16/2021/2350/88962

Note : Mines is Not in operation. Form-1 is Submitted to DGMS






Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

S No.	Condition	Compliance Status																																																																																																																																
A. Specific Condition:																																																																																																																																		
i	The environmental clearance is subject to final orders of the Hon'ble Court of Fast Track Judge & Joint District Judge, Veraval, in the matter.	<ul style="list-style-type: none">The final order has been issued on dated 14th November 2006 which has been already submitted to MoEF&CC vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.																																																																																																																																
ii	All the conditions stipulated by the State Pollution Control Board in their NOC should be effectively implemented.	<ul style="list-style-type: none">Point noted and being complied.																																																																																																																																
iii	The proponent should carry out long terms studies on salinity and water levels in and around mining areas and submit report to this ministry, its Regional Office Bhopal and Central Ground Water Authority within a period of 6 months.	<ul style="list-style-type: none">Water conservation measures to augment ground water resources in the area are being done by Ambuja Cement Foundation (ACF). A report about ACF & community development work done by ACF in surrounding areas is enclosed as Annexure.A report on Impact of Limestone Mining and Salinity Status around ACL mines has been prepared by Ground Water & Mineral Investigation Consultancy Centre Pvt. Ltd. (GWMICC), Jaipur. Report has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.																																																																																																																																
<div><div>Ambuja Cement Foundation - Ambujanagar</div><div>Details for programme wise expenditure for the year April 2021 to Sept. 2021</div><div>(Rs. In lakhs)</div><table><tr><th>Sr.No</th><th>Programme</th><th>ACF - ACL</th><th>*Funds received through Non-Profit</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 - Kolar</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Water Resource Mangement & 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>4.08</td><td>--</td><td>--</td><td>--</td><td>--</td><td>4.08</td></tr><tr><td></td><td>B. Drinking Water Programme</td><td>2.40</td><td>2.84</td><td>--</td><td>1.00</td><td>160.45</td><td>166.79</td></tr><tr><td>2</td><td>Agriculture Development(Drip Irrigation, Farm Forestry & Afforestation)</td><td>7.02</td><td>--</td><td>6.33</td><td>54.68</td><td>58.10</td><td>121.50</td></tr><tr><td>3</td><td>SCI</td><td>7.50</td><td>1.01</td><td>123.85</td><td>28.24</td><td>35.02</td><td>195.80</td></tr><tr><td>4</td><td>Krishil Vilgani Kendra (KVK) - Agriculture</td><td>1.02</td><td>69.28</td><td>--</td><td>--</td><td>--</td><td>70.25</td></tr><tr><td>5</td><td>Health & Sanitation</td><td>4.86</td><td>--</td><td>8.23</td><td>34.20</td><td>--</td><td>47.29</td></tr><tr><td>6</td><td>Education Programme</td><td>0.61</td><td>--</td><td>--</td><td>--</td><td>--</td><td>0.61</td></tr><tr><td>7</td><td>Women / Youth Development</td><td>2.71</td><td>--</td><td>--</td><td>--</td><td>--</td><td>2.71</td></tr><tr><td>8</td><td>Skill and Enterprunership Development Programme</td><td>17.02</td><td>24.76</td><td>0.12</td><td>12.52</td><td>--</td><td>54.42</td></tr><tr><td>9</td><td>Integrated Community Development Programme</td><td>91.96</td><td>--</td><td>29.77</td><td>--</td><td>--</td><td>121.73</td></tr><tr><td>10</td><td>Co-ordination & Administration Expenses</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>0.00</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>140.00</td><td>97.84</td><td>168.02</td><td>130.04</td><td>248.71</td><td>735.61</td></tr></table></div>			Sr.No	Programme	ACF - ACL	*Funds received through Non-Profit	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.		GUJARAT - Kolar							1	Water Resource Mangement & Drinking Water Projects								a.Water Resource Development	4.08	--	--	--	--	4.08		B. Drinking Water Programme	2.40	2.84	--	1.00	160.45	166.79	2	Agriculture Development(Drip Irrigation, Farm Forestry & Afforestation)	7.02	--	6.33	54.68	58.10	121.50	3	SCI	7.50	1.01	123.85	28.24	35.02	195.80	4	Krishil Vilgani Kendra (KVK) - Agriculture	1.02	69.28	--	--	--	70.25	5	Health & Sanitation	4.86	--	8.23	34.20	--	47.29	6	Education Programme	0.61	--	--	--	--	0.61	7	Women / Youth Development	2.71	--	--	--	--	2.71	8	Skill and Enterprunership Development Programme	17.02	24.76	0.12	12.52	--	54.42	9	Integrated Community Development Programme	91.96	--	29.77	--	--	121.73	10	Co-ordination & Administration Expenses	--	--	--	--	--	0.00	11	Capital Expenditure	--	--	--	--	--	0.00		TOTAL	140.00	97.84	168.02	130.04	248.71	735.61
Sr.No	Programme	ACF - ACL	*Funds received through Non-Profit	** Funds from other Donors / Donor Agencies	*** People's Contribution	**** Direct Funding to Communities	Total Exp.																																																																																																																											
	GUJARAT - Kolar																																																																																																																																	
1	Water Resource Mangement & Drinking Water Projects																																																																																																																																	
	a.Water Resource Development	4.08	--	--	--	--	4.08																																																																																																																											
	B. Drinking Water Programme	2.40	2.84	--	1.00	160.45	166.79																																																																																																																											
2	Agriculture Development(Drip Irrigation, Farm Forestry & Afforestation)	7.02	--	6.33	54.68	58.10	121.50																																																																																																																											
3	SCI	7.50	1.01	123.85	28.24	35.02	195.80																																																																																																																											
4	Krishil Vilgani Kendra (KVK) - Agriculture	1.02	69.28	--	--	--	70.25																																																																																																																											
5	Health & Sanitation	4.86	--	8.23	34.20	--	47.29																																																																																																																											
6	Education Programme	0.61	--	--	--	--	0.61																																																																																																																											
7	Women / Youth Development	2.71	--	--	--	--	2.71																																																																																																																											
8	Skill and Enterprunership Development Programme	17.02	24.76	0.12	12.52	--	54.42																																																																																																																											
9	Integrated Community Development Programme	91.96	--	29.77	--	--	121.73																																																																																																																											
10	Co-ordination & Administration Expenses	--	--	--	--	--	0.00																																																																																																																											
11	Capital Expenditure	--	--	--	--	--	0.00																																																																																																																											
	TOTAL	140.00	97.84	168.02	130.04	248.71	735.61																																																																																																																											
iv	Top soil should be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	<ul style="list-style-type: none">Top soil generated during mining operation was stacked at designated area and being used for mines reclamation and green belt development.																																																																																																																																
v	Catch drains and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. 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 monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for mine pit 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 should be constructed at the corners of the garland drains and desilted at regular intervals.	<ul style="list-style-type: none">No mineral is stacked within lease area as on today and application for surrender of mines in form-I is submitted as below:																																																																																																																																

Note : Mines is Not in operation. Form-1 is Submitted to DGMS



Compliance Status of Environment Clearance Issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

<p align="center">Ambuja Cement Greenbelt Dept.</p> <p>AC/AM/2019/1000 Date: 21.07.2019</p> <p>To, The Director General of Mines Safety, Directorate - General of Mines Safety, Chandigarh, Chandigarh - 160 001.</p> <p>Sub: Notice of Abandonment of Mine.</p> <p>Dear Sir,</p> <p>We are enclosing herewith the Notice of Abandonment of Mine in Form - I of our Solaj Limestone & Marl Mine of the Ambuja Cement Ltd. as required under the Regulation 82(2) of the Mines/Minerals (Regulations), 1951.</p> <p>Kindly acknowledge receipt of the same.</p> <p>Thanking you, Yours faithfully, For Solaj Limestone & Marl Mine,</p> <p><i>(Signature)</i> GCH (W&S) & Asstt (Mines)</p> <p>cc: 1) The Director General of Mines Safety, New Delhi Zone, Sector 6, Phase II, Near Chandigarh Main Road, Bhadrav Nagar, Lucknow - 226 002 (Uttar Pradesh)</p> <p>2) The Director of Mines Safety, Directorate General of Mines Safety, No. 25, Sardar Patel Marg, Near ONGC Complex, New CG Road, Chandigarh, Chandigarh - 160 024 (Chandigarh)</p> <p>3) The District Magistrate, Chandigarh Office, P.O. - Narnaul, Dist. Gurugram, Haryana</p> <p>Copy to:- 1) The Director General of Mines Safety, Directorate - General of Mines Safety, Chandigarh, Chandigarh - 160 001.</p> <p>2) The Director General of Mines Safety, New Delhi Zone, Sector 6, Phase II, Near Chandigarh Main Road, Bhadrav Nagar, Lucknow - 226 002 (Uttar Pradesh)</p> <p>3) The District Magistrate, Chandigarh Office, P.O. - Narnaul, Dist. Gurugram, Haryana</p> <p>Copy to:- 1) The Director General of Mines Safety, Directorate - General of Mines Safety, Chandigarh, Chandigarh - 160 001.</p> <p>2) The Director General of Mines Safety, New Delhi Zone, Sector 6, Phase II, Near Chandigarh Main Road, Bhadrav Nagar, Lucknow - 226 002 (Uttar Pradesh)</p> <p>3) The District Magistrate, Chandigarh Office, P.O. - Narnaul, Dist. Gurugram, Haryana</p>	<p align="center">FORM - I (See Regulation 82(2) of MMR 1951) Notice of Abandonment of Mines</p> <p>From: Ambuja Cement Limited, P.O. Ambujajager - 352 715, Tal. Narnaul, Dist. Gurugram, Haryana.</p> <p>To:</p> <ol style="list-style-type: none"> The Director General of Mines Safety, Directorate - General of Mines Safety, Chandigarh, Chandigarh - 160 001 The Director General of Mines Safety, New Delhi Zone, Sector 6, Phase II, Near Chandigarh Main Road, Bhadrav Nagar, Lucknow - 226 002 (Uttar Pradesh) The Director of Mines Safety, Directorate General of Mines Safety, No. 25, Sardar Patel Marg, Near ONGC Complex, New CG Road, Chandigarh, Chandigarh - 160 024 (Chandigarh) The District Magistrate, Chandigarh Office, P.O. - Narnaul, Dist. Gurugram, Haryana <p>2. I have to furnish the following particulars in respect of abandonment of mines at Solaj Limestone & Marl Mine of M/s. Ambuja Cement Ltd., P.O. Ambujajager, Taluka Koppal, Dist. Gurugram, Haryana.</p> <ol style="list-style-type: none"> In case of change of Name of Mine (a) Situation of the Mine (b) In case of a new mine / particulars of situation of mine 															
<p>(vi) Plantation shall be raised in an area of 87.45 ha including a greenbelt around ML area, reclaimed area and around worked out pit, 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>(a)</p> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #0070C0; color: white;"> <th colspan="5">SOLAJ Mines Greenbelt & Plantation Details till September 2020</th> </tr> <tr style="background-color: #D9E1F2;"> <th>Total Lease Area (In Ha)</th> <th>Opened up Area (In Ha.)</th> <th>Planted Area (In Ha.)</th> <th>Pasture Land (In Ha)</th> <th>Water Body (In Ha)</th> </tr> </thead> <tbody> <tr> <td>200.8184</td> <td>107.4428</td> <td>9.8128</td> <td>88.0384</td> <td>19.4044</td> </tr> </tbody> </table>		SOLAJ Mines Greenbelt & Plantation Details till September 2020					Total Lease Area (In Ha)	Opened up Area (In Ha.)	Planted Area (In Ha.)	Pasture Land (In Ha)	Water Body (In Ha)	200.8184	107.4428	9.8128	88.0384	19.4044
SOLAJ Mines Greenbelt & Plantation Details till September 2020																
Total Lease Area (In Ha)	Opened up Area (In Ha.)	Planted Area (In Ha.)	Pasture Land (In Ha)	Water Body (In Ha)												
200.8184	107.4428	9.8128	88.0384	19.4044												
<p>(b)</p> <div style="display: flex; justify-content: space-around;">   </div> 																

Note : Mines is Not in operation. Form-1 is Submitted to DGMS



Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

(vii)

The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

- Water conservation measures to augment ground water resources in the area are being done by Ambuja Cement Foundation (ACF). Details of water harvesting work done by ACF in and around area is as per the data mentioned as under:

Ambuja Cement Foundation - Ambujanagar

Details for programme wise expenditure for the year April 2021 to Sept. 2021

(Rs. in lakhs)

Sr.No	Programme	ACF - ACF	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						
1	Water Resource Mangement & Drinking Water Projects						
	a. Water Resource Development	4.69	--	--	--	--	4.69
	B. Drinking Water Programme	2.40	2.84	--	1.00	100.49	106.73
2	Agriculture Development(Drip Irrigation, Farm Forestry & Afforestation)	7.03	--	6.85	54.68	58.20	121.56
3	BCI	7.68	1.01	123.85	28.24	35.02	195.80
4	Krishi Vigyan Kendra (KVK) - Agriculture	1.02	59.23	--	--	--	70.25
5	Health & Sanitation	4.86	--	6.23	34.20	--	47.29
6	Education Programme	0.63	--	--	--	--	0.63
7	Women / Youth Development	2.71	--	--	--	--	2.71
8	Skill and Enterprunership Development Programme	17.02	24.76	0.12	12.52	--	54.42
9	Integrated Community Development Programme	93.96	--	29.77	--	--	121.73
10	Co-ordination & Administration Expenses	--	--	--	--	--	0.00
11	Capital Expenditure	--	--	--	--	--	0.00
	TOTAL	140.00	97.84	168.62	130.64	248.71	785.81

viii

Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction new piezometers during the mining operation. The monitoring should be carried out four times in a year Pre monsoon (April/May), monsoon (August), Post monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests, its Regional Office, Bhopal, Central Ground water Authority and Central Ground Water Board.

- Complied. Water quality testing is carried out with the help of MoEF certified third party laboratory as per prescribed schedule. Water levels are being recorded in 11 open wells of buffer zone and 2 piezometers are constructed in mines area core zone.
- Data collected is being communicated regularly to CGWA, New Delhi, MoEF Regional office (SEZ) Bhopal, CGWB Regional Director Gandhinagar .
- Ground water level & quality monitoring is being done regularly by establishing a network of ground water monitoring stations. Report is submitted to MoEF regional office Bhopal on six monthly basis. Ground water level & quality monitoring reports are enclosed as under :

ESTIMATE LABORATORY

Manager: T. Sub. Nagar High School, District: Nandia School, Nandia

Phone: 982605, Phone: 982605

E-Mail: drnandiaschool@gmail.com

REPORT ON WATER QUALITY & MONITORING OF WATER

Sample No. 101

Sample Date: 10/10/2021

Sample Location: 101

Sl. No.	Parameter	Unit	Value	Limit	Remarks
1	pH		7.5	6.5-8.5	
2	Temperature	°C	25.0	10-30	
3	Dissolved Oxygen	mg/l	8.5	5-15	
4	Total Hardness	mg/l	150	150	
5	Calcium Hardness	mg/l	100	100	
6	Magnesium Hardness	mg/l	50	50	
7	Total Solids	mg/l	150	150	
8	Dissolved Solids	mg/l	100	100	
9	Suspended Solids	mg/l	50	50	
10	Chloride	mg/l	100	100	
11	Sulfate	mg/l	50	50	
12	Nitrate	mg/l	10	10	
13	Nitrite	mg/l	0.5	0.5	
14	Ammonia	mg/l	0.5	0.5	
15	Phosphate	mg/l	0.5	0.5	
16	Iron	mg/l	0.5	0.5	
17	Copper	mg/l	0.5	0.5	
18	Zinc	mg/l	0.5	0.5	
19	Lead	mg/l	0.5	0.5	
20	Cadmium	mg/l	0.5	0.5	
21	Mercury	mg/l	0.5	0.5	
22	Barium	mg/l	0.5	0.5	
23	Strontium	mg/l	0.5	0.5	
24	Selenium	mg/l	0.5	0.5	
25	Fluoride	mg/l	0.5	0.5	
26	Boron	mg/l	0.5	0.5	
27	Manganese	mg/l	0.5	0.5	
28	Cobalt	mg/l	0.5	0.5	
29	Nickel	mg/l	0.5	0.5	
30	Copper	mg/l	0.5	0.5	
31	Zinc	mg/l	0.5	0.5	
32	Lead	mg/l	0.5	0.5	
33	Cadmium	mg/l	0.5	0.5	
34	Mercury	mg/l	0.5	0.5	
35	Barium	mg/l	0.5	0.5	
36	Strontium	mg/l	0.5	0.5	
37	Selenium	mg/l	0.5	0.5	
38	Fluoride	mg/l	0.5	0.5	
39	Boron	mg/l	0.5	0.5	
40	Manganese	mg/l	0.5	0.5	
41	Cobalt	mg/l	0.5	0.5	
42	Nickel	mg/l	0.5	0.5	
43	Copper	mg/l	0.5	0.5	
44	Zinc	mg/l	0.5	0.5	
45	Lead	mg/l	0.5	0.5	
46	Cadmium	mg/l	0.5	0.5	
47	Mercury	mg/l	0.5	0.5	
48	Barium	mg/l	0.5	0.5	
49	Strontium	mg/l	0.5	0.5	
50	Selenium	mg/l	0.5	0.5	
51	Fluoride	mg/l	0.5	0.5	
52	Boron	mg/l	0.5	0.5	
53	Manganese	mg/l	0.5	0.5	
54	Cobalt	mg/l	0.5	0.5	
55	Nickel	mg/l	0.5	0.5	
56	Copper	mg/l	0.5	0.5	
57	Zinc	mg/l	0.5	0.5	
58	Lead	mg/l	0.5	0.5	
59	Cadmium	mg/l	0.5	0.5	
60	Mercury	mg/l	0.5	0.5	
61	Barium	mg/l	0.5	0.5	
62	Strontium	mg/l	0.5	0.5	
63	Selenium	mg/l	0.5	0.5	
64	Fluoride	mg/l	0.5	0.5	
65	Boron	mg/l	0.5	0.5	
66	Manganese	mg/l	0.5	0.5	
67	Cobalt	mg/l	0.5	0.5	
68	Nickel	mg/l	0.5	0.5	
69	Copper	mg/l	0.5	0.5	
70	Zinc	mg/l	0.5	0.5	
71	Lead	mg/l	0.5	0.5	
72	Cadmium	mg/l	0.5	0.5	
73	Mercury	mg/l	0.5	0.5	
74	Barium	mg/l	0.5	0.5	
75	Strontium	mg/l	0.5	0.5	
76	Selenium	mg/l	0.5	0.5	
77	Fluoride	mg/l	0.5	0.5	
78	Boron	mg/l	0.5	0.5	
79	Manganese	mg/l	0.5	0.5	
80	Cobalt	mg/l	0.5	0.5	
81	Nickel	mg/l	0.5	0.5	
82	Copper	mg/l	0.5	0.5	
83	Zinc	mg/l	0.5	0.5	
84	Lead	mg/l	0.5	0.5	
85	Cadmium	mg/l	0.5	0.5	
86	Mercury	mg/l	0.5	0.5	
87	Barium	mg/l	0.5	0.5	
88	Strontium	mg/l	0.5	0.5	
89	Selenium	mg/l	0.5	0.5	
90	Fluoride	mg/l	0.5	0.5	
91	Boron	mg/l	0.5	0.5	
92	Manganese	mg/l	0.5	0.5	
93	Cobalt	mg/l	0.5	0.5	
94	Nickel	mg/l	0.5	0.5	
95	Copper	mg/l	0.5	0.5	
96	Zinc	mg/l	0.5	0.5	
97	Lead	mg/l	0.5	0.5	
98	Cadmium	mg/l	0.5	0.5	
99	Mercury	mg/l	0.5	0.5	
100	Barium	mg/l	0.5	0.5	
101	Strontium	mg/l	0.5	0.5	
102	Selenium	mg/l	0.5	0.5	
103	Fluoride	mg/l	0.5	0.5	
104	Boron	mg/l	0.5	0.5	
105	Manganese	mg/l	0.5	0.5	
106	Cobalt	mg/l	0.5	0.5	
107	Nickel	mg/l	0.5	0.5	
108	Copper	mg/l	0.5	0.5	
109	Zinc	mg/l	0.5	0.5	
110	Lead	mg/l	0.5	0.5	
111	Cadmium	mg/l	0.5	0.5	
112	Mercury	mg/l	0.5	0.5	
113	Barium	mg/l	0.5	0.5	
114	Strontium	mg/l	0.5	0.5	
115	Selenium	mg/l	0.5	0.5	
116	Fluoride	mg/l	0.5	0.5	
117	Boron	mg/l	0.5	0.5	
118	Manganese	mg/l	0.5	0.5	
119	Cobalt	mg/l	0.5	0.5	
120	Nickel	mg/l	0.5	0.5	
121	Copper	mg/l	0.5	0.5	
122	Zinc	mg/l	0.5	0.5	
123	Lead	mg/l	0.5	0.5	
124	Cadmium	mg/l	0.5	0.5	
125	Mercury	mg/l	0.5	0.5	
126	Barium	mg/l	0.5	0.5	
127	Strontium	mg/l	0.5	0.5	
128	Selenium	mg/l	0.5	0.5	
129	Fluoride	mg/l	0.5	0.5	
130	Boron	mg/l	0.5	0.5	
131	Manganese	mg/l	0.5	0.5	
132	Cobalt	mg/l	0.5	0.5	
133	Nickel	mg/l	0.5	0.5	
134	Copper	mg/l	0.5	0.5	
135	Zinc	mg/l	0.5	0.5	
136	Lead	mg/l	0.5	0.5	
137	Cadmium	mg/l	0.5	0.5	
138	Mercury	mg/l	0.5	0.5	
139	Barium	mg/l	0.5	0.5	
140	Strontium	mg/l	0.5	0.5	
141	Selenium	mg/l	0.5	0.5	
142	Fluoride	mg/l	0.5	0.5	
143	Boron	mg/l	0.5	0.5	
144	Manganese	mg/l	0.5	0.5	
145	Cobalt	mg/l	0.5	0.5	
146	Nickel	mg/l	0.5	0.5	
147	Copper	mg/l	0.5	0.5	
148	Zinc	mg/l	0.5	0.5	
149	Lead	mg/l	0.5	0.5	
150	Cadmium	mg/l	0.5	0.5	
151	Mercury	mg/l	0.5	0.5	
152	Barium	mg/l	0.5	0.5	
153	Strontium	mg/l	0.5	0.5	
154	Selenium	mg/l	0.5	0.5	
155	Fluoride	mg/l	0.5	0.5	
156	Boron	mg/l	0.5	0.5	
157	Manganese	mg/l	0.5	0.5	
158	Cobalt	mg/l	0.5	0.5	
159	Nickel	mg/l	0.5	0.5	
160	Copper	mg/l	0.5	0.5	
161	Zinc	mg/l	0.5	0.5	
162	Lead	mg/l	0.5	0.5	
163	Cadmium	mg/l	0.5	0.5	
164	Mercury	mg/l	0.5	0.5	
165	Barium	mg/l	0.5	0.5	
166	Strontium	mg/l	0.5	0.5	
167	Selenium	mg/l	0.5	0.5	
168	Fluoride	mg/l	0.5	0.5	
169	Boron	mg/l	0.5	0.5	
170	Manganese	mg/l	0.5	0.5	
171	Cobalt	mg/l	0.5	0.5	
172	Nickel	mg/l	0.5	0.5	
173	Copper	mg/l	0.5	0.5	
174	Zinc	mg/l	0.5	0.5	
175	Lead	mg/l	0.5	0.5	
176	Cadmium	mg/l	0.5	0.5	
177	Mercury	mg/l	0.5	0.5	
178	Barium	mg/l	0.5	0.5	
179	Strontium	mg/l	0.5	0.5	
180	Selenium	mg/l	0.5	0.5	
181	Fluoride	mg/l	0.5	0.5	
182	Boron	mg/l	0.5	0.5	
183	Manganese	mg/l	0.5	0.5	
184	Cobalt	mg/l	0.5	0.5	
185	Nickel	mg/l	0.5	0.5	
186	Copper	mg/l	0.5	0.5	
187	Zinc	mg/l	0.5	0.5	
188	Lead	mg/l	0.5	0.5	
189	Cadmium	mg/l	0.5	0.5	
190	Mercury	mg/l	0.5	0.5	
191	Barium	mg/l	0.5	0.5	
192	Strontium	mg/l	0.5	0.5	
193	Selenium	mg/l	0.5	0.5	
194	Fluoride	mg/l	0.5	0.5	
195	Boron	mg/l	0.5	0.5	
196	Manganese	mg/l	0.5	0.5	
197	Cobalt	mg/l	0.5	0.5	
198	Nickel	mg/l	0.5	0.5	
199	Copper	mg/l	0.5	0.5	
200	Zinc	mg/l	0.5	0.5	
201	Lead	mg/l	0.5	0.5	
202	Cadmium	mg/l	0.5	0.5	
203	Mercury	mg/l	0.5	0.5	
204	Barium	mg/l	0.5	0.5	
205	Strontium	mg/l	0.5	0.5	
206	Selenium	mg/l	0.5	0.5	
207	Fluoride	mg/l	0.5	0.5	
208	Boron	mg/l	0.5	0.5	
209	Manganese	mg/l	0.5	0.5	
210	Cobalt	mg/l	0.5	0.5	
211	Nickel	mg/l	0.5	0.5	
212	Copper	mg/l	0.5	0.5	
213	Zinc	mg/l	0.5	0.5	
214	Lead	mg/l	0.5	0.5	
215	Cadmium	mg/l	0.5	0.5	
216	Mercury	mg/l	0.5	0.5	
217	Barium	mg/l	0.5	0.5	
218	Strontium	mg/l	0.5	0.5	
219	Selenium	mg/l	0.5	0.5	
220	Fluoride	mg/l	0.5	0.5	
221	Boron	mg/l	0.5	0.5	
222	Manganese	mg/l	0.5	0	

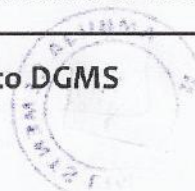
Note : Mines is Not in operation. From-1 is Submitted to DGMS



Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

x	The mineral handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should be properly maintained and operated.	<ul style="list-style-type: none"> No mineral handling plant at Mines site. Extracted mineral is transported to cement plant by trucks / tipper which are provided with mechanized double flap covering system.
xi	Vehicular emissions should 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 vehicles should be covered with a tarpaulin and shall not be overloaded.	<ul style="list-style-type: none"> Vehicular emissions are checked regularly. All the vehicles used for transportation of minerals are provided with mechanized double flap covering system. Presently mining activity closed since 05.05.2014 . & applied at IBM from for surrender of mines
xii	No drilling and blasting shall be undertaken in the project.	<ul style="list-style-type: none"> Drilling & Blast free fully mechanized Surface Miner machine is used for mining.
xiii	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 Ministry of Environment and Forests and its Regional Office, Bhopal.	<ul style="list-style-type: none"> Land use pattern report study has been conducted by Compusense Automation, Ahmadabad. Report is under preparation stage and will be submitted to MoEF&CC as soon as possible.
xiv	The void left unfilled in an area of 65.0 ha 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 slopes of higher benches shall be made gentler for easy accessibility by local people to use the water, body. Peripheral fencing shall be carried out along the excavated area.	<ul style="list-style-type: none"> Excavated area is converted in to water bodies as per approved mining plan from IBM. Total Open mine area is 107.44 Ha. Higher benches will be made gentler for easy accessibility by local people to use the water body. Peripheral fencing of bella stone is provided along excavated area. Total 5138 meter brick wall, 15762 meter barbed wire and 16891 meter earthen bund fencing has been done.
xv	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora, endangered fauna such as leopard and endangered migratory bird species spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the state forest and wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and fund so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.	<ul style="list-style-type: none"> Status of Biodiversity (Flora & Fauna) in core and buffer zone area of Solaj Mines has been conducted by "Gujarat Institute of Desert Ecology", Bhuj. Report with action plan for conservation of flora and fauna has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.
xvi	Consent to operate should be obtained from SPCB before starting enhanced production from the mine.	<ul style="list-style-type: none"> Pointed noted. CCA will be obtained in case of enhanced production from the mine.

Note : Mines is Not in operation. Form-1 is Submitted to DGMS



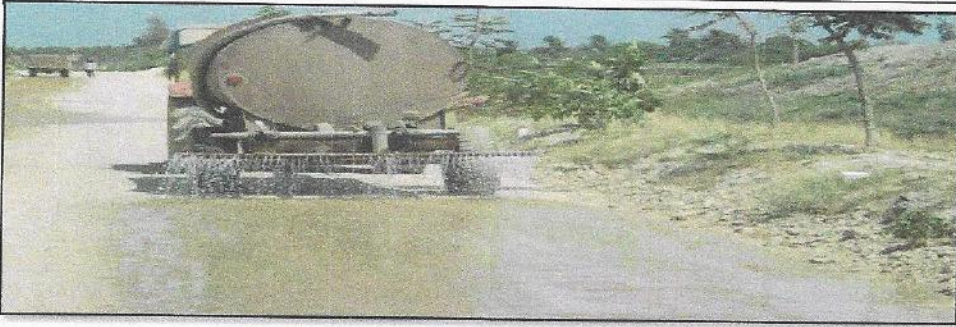
Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

xvii	A final Mine Closure plan along with details of Corpus Fund should be submitted to Ministry of Environment & Forests in advance of final mine closure for approval.	<ul style="list-style-type: none">A final Mine Closure plan along with details of Corpus Fund shall be submitted to Ministry of Environment & Forests in advance of final mine closure for approval.																																																																																																																																																																																																																																																																																							
B. General Conditions:																																																																																																																																																																																																																																																																																									
i	No change in mining technology and the scope of working should be made without prior approval of the Ministry of Environment & Forests.	<ul style="list-style-type: none">We are following the same mining practices through state of art Surface Miner as proposed. In case of any change in the mining technology and scope of working, we will take prior approval from Ministry of Environment, Forest & Climate Change.																																																																																																																																																																																																																																																																																							
ii	No change in the calendar plan including excavation, quantum of mineral limestone and marl and waste should be made.	<ul style="list-style-type: none">Point noted																																																																																																																																																																																																																																																																																							
iii	At least four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO ₂ & NO _x monitoring. Location of the stations should be decided on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RSPM, SPM, SO ₂ & NO _x) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board once in six months.	<ul style="list-style-type: none">Four ambient air quality monitoring stations have been established in core & buffer zone. Ambient air quality monitoring results for the period April'2021 to September'2021 is enclosed as under:The location of the monitoring stations is decided in consultation with GPCB and renowned consultant Sh. B Padmanabh Murthy, Professor of JNU and former Director of IMD Met-Dept on 5th and 6th Jan 2008.																																																																																																																																																																																																																																																																																							
<table><tr><th colspan="20">Average Ambient Air Quality Monitoring Results Apr-21 to Sep-21</th></tr><tr><th rowspan="2">Month</th><th colspan="5">Working place</th><th colspan="5">Solaj Village</th><th colspan="5">Khara Village</th><th colspan="5">Moradiya Village</th></tr><tr><th>PM2.5</th><th>PM10</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>PM2.5</th><th>PM10</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>PM2.5</th><th>PM10</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>PM2.5</th><th>PM10</th><th>SO₂</th><th>NO_x</th><th>CO</th></tr><tr><td></td><td colspan="4">(µg/m³)</td><td>(mg/m³)</td><td colspan="4">(µg/m³)</td><td>(mg/m³)</td><td colspan="4">(µg/m³)</td><td>(mg/m³)</td><td colspan="4">(µg/m³)</td><td>(mg/m³)</td></tr><tr><td>Apr-21</td><td colspan="5" rowspan="12">Note: Mines is Not in operation. From-1 is Submitted to DGMS</td><td>15.2</td><td>35.6</td><td>10.3</td><td>13.5</td><td>BDL</td><td>31.2</td><td>48.7</td><td>13.4</td><td>13.5</td><td>BDL</td><td>33.1</td><td>52.6</td><td>12.8</td><td>14.3</td><td>BDL</td></tr><tr><td></td><td>23.5</td><td>46.7</td><td>11.2</td><td>13.4</td><td>BDL</td><td>30.7</td><td>50.1</td><td>12.5</td><td>13.8</td><td>BDL</td><td>31.5</td><td>47.6</td><td>9.8</td><td>14.7</td><td>BDL</td></tr><tr><td>May-21</td><td>27.0</td><td>42.0</td><td>13.2</td><td>20.7</td><td>BDL</td><td>32.5</td><td>46.7</td><td>12.9</td><td>14.5</td><td>BDL</td><td>31.3</td><td>50.4</td><td>13.6</td><td>13.7</td><td>BDL</td></tr><tr><td></td><td>30.0</td><td>51.0</td><td>13.2</td><td>19.6</td><td>BDL</td><td>31.6</td><td>49.2</td><td>11.2</td><td>14.7</td><td>BDL</td><td>30.4</td><td>48.5</td><td>10.4</td><td>13.8</td><td>BDL</td></tr><tr><td>Jun-21</td><td>26.0</td><td>46.0</td><td>12.8</td><td>21.3</td><td>BDL</td><td>28.6</td><td>49.8</td><td>12.3</td><td>14.9</td><td>BDL</td><td>31.5</td><td>48.1</td><td>11.4</td><td>16.3</td><td>BDL</td></tr><tr><td></td><td>27.0</td><td>46.0</td><td>12.3</td><td>19.2</td><td>BDL</td><td>30.4</td><td>46.6</td><td>10.7</td><td>14.1</td><td>BDL</td><td>31.5</td><td>49.1</td><td>11.8</td><td>12.7</td><td>BDL</td></tr><tr><td>Jul-21</td><td>24.0</td><td>42.0</td><td>12.2</td><td>21.6</td><td>BDL</td><td>28.4</td><td>46.7</td><td>12.7</td><td>12.8</td><td>BDL</td><td>27.1</td><td>46.5</td><td>11.2</td><td>13.4</td><td>BDL</td></tr><tr><td></td><td>24.0</td><td>43.0</td><td>12.1</td><td>20.1</td><td>BDL</td><td>27.6</td><td>48.3</td><td>12.9</td><td>14.4</td><td>BDL</td><td>28.4</td><td>47.6</td><td>12.6</td><td>13.8</td><td>BDL</td></tr><tr><td>Aug-21</td><td>25.0</td><td>45.0</td><td>11.7</td><td>21.3</td><td>BDL</td><td>27.4</td><td>47.2</td><td>11.6</td><td>14.6</td><td>BDL</td><td>26.9</td><td>50.8</td><td>10.8</td><td>15.7</td><td>BDL</td></tr><tr><td></td><td>40.0</td><td>11.3</td><td>19.1</td><td>22.2</td><td>BDL</td><td>27.4</td><td>46.9</td><td>14.5</td><td>12.5</td><td>BDL</td><td>25.0</td><td>49.8</td><td>12.0</td><td>14.2</td><td>BDL</td></tr><tr><td>Sep-21</td><td>25.0</td><td>45.0</td><td>11.7</td><td>21.3</td><td>BDL</td><td>22.9</td><td>40.8</td><td>11.7</td><td>13.5</td><td>BDL</td><td>19.0</td><td>38.3</td><td>12.0</td><td>14.8</td><td>BDL</td></tr><tr><td></td><td>25.0</td><td>45.0</td><td>11.9</td><td>18.4</td><td>BDL</td><td>28.8</td><td>40.2</td><td>12.4</td><td>15.9</td><td>BDL</td><td>27.6</td><td>39.6</td><td>11.6</td><td>15.4</td><td>BDL</td></tr></table>			Average Ambient Air Quality Monitoring Results Apr-21 to Sep-21																				Month	Working place					Solaj Village					Khara Village					Moradiya Village					PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO		(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)	Apr-21	Note: Mines is Not in operation. From-1 is Submitted to DGMS					15.2	35.6	10.3	13.5	BDL	31.2	48.7	13.4	13.5	BDL	33.1	52.6	12.8	14.3	BDL		23.5	46.7	11.2	13.4	BDL	30.7	50.1	12.5	13.8	BDL	31.5	47.6	9.8	14.7	BDL	May-21	27.0	42.0	13.2	20.7	BDL	32.5	46.7	12.9	14.5	BDL	31.3	50.4	13.6	13.7	BDL		30.0	51.0	13.2	19.6	BDL	31.6	49.2	11.2	14.7	BDL	30.4	48.5	10.4	13.8	BDL	Jun-21	26.0	46.0	12.8	21.3	BDL	28.6	49.8	12.3	14.9	BDL	31.5	48.1	11.4	16.3	BDL		27.0	46.0	12.3	19.2	BDL	30.4	46.6	10.7	14.1	BDL	31.5	49.1	11.8	12.7	BDL	Jul-21	24.0	42.0	12.2	21.6	BDL	28.4	46.7	12.7	12.8	BDL	27.1	46.5	11.2	13.4	BDL		24.0	43.0	12.1	20.1	BDL	27.6	48.3	12.9	14.4	BDL	28.4	47.6	12.6	13.8	BDL	Aug-21	25.0	45.0	11.7	21.3	BDL	27.4	47.2	11.6	14.6	BDL	26.9	50.8	10.8	15.7	BDL		40.0	11.3	19.1	22.2	BDL	27.4	46.9	14.5	12.5	BDL	25.0	49.8	12.0	14.2	BDL	Sep-21	25.0	45.0	11.7	21.3	BDL	22.9	40.8	11.7	13.5	BDL	19.0	38.3	12.0	14.8	BDL		25.0	45.0	11.9	18.4	BDL	28.8	40.2	12.4	15.9	BDL	27.6	39.6	11.6	15.4	BDL
Average Ambient Air Quality Monitoring Results Apr-21 to Sep-21																																																																																																																																																																																																																																																																																									
Month	Working place					Solaj Village					Khara Village					Moradiya Village																																																																																																																																																																																																																																																																									
	PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO	PM2.5	PM10	SO ₂	NO _x	CO																																																																																																																																																																																																																																																																					
	(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)	(µg/m ³)				(mg/m ³)																																																																																																																																																																																																																																																																					
Apr-21	Note: Mines is Not in operation. From-1 is Submitted to DGMS					15.2	35.6	10.3	13.5	BDL	31.2	48.7	13.4	13.5	BDL	33.1	52.6	12.8	14.3	BDL																																																																																																																																																																																																																																																																					
						23.5	46.7	11.2	13.4	BDL	30.7	50.1	12.5	13.8	BDL	31.5	47.6	9.8	14.7	BDL																																																																																																																																																																																																																																																																					
May-21						27.0	42.0	13.2	20.7	BDL	32.5	46.7	12.9	14.5	BDL	31.3	50.4	13.6	13.7	BDL																																																																																																																																																																																																																																																																					
						30.0	51.0	13.2	19.6	BDL	31.6	49.2	11.2	14.7	BDL	30.4	48.5	10.4	13.8	BDL																																																																																																																																																																																																																																																																					
Jun-21						26.0	46.0	12.8	21.3	BDL	28.6	49.8	12.3	14.9	BDL	31.5	48.1	11.4	16.3	BDL																																																																																																																																																																																																																																																																					
						27.0	46.0	12.3	19.2	BDL	30.4	46.6	10.7	14.1	BDL	31.5	49.1	11.8	12.7	BDL																																																																																																																																																																																																																																																																					
Jul-21						24.0	42.0	12.2	21.6	BDL	28.4	46.7	12.7	12.8	BDL	27.1	46.5	11.2	13.4	BDL																																																																																																																																																																																																																																																																					
						24.0	43.0	12.1	20.1	BDL	27.6	48.3	12.9	14.4	BDL	28.4	47.6	12.6	13.8	BDL																																																																																																																																																																																																																																																																					
Aug-21						25.0	45.0	11.7	21.3	BDL	27.4	47.2	11.6	14.6	BDL	26.9	50.8	10.8	15.7	BDL																																																																																																																																																																																																																																																																					
						40.0	11.3	19.1	22.2	BDL	27.4	46.9	14.5	12.5	BDL	25.0	49.8	12.0	14.2	BDL																																																																																																																																																																																																																																																																					
Sep-21						25.0	45.0	11.7	21.3	BDL	22.9	40.8	11.7	13.5	BDL	19.0	38.3	12.0	14.8	BDL																																																																																																																																																																																																																																																																					
						25.0	45.0	11.9	18.4	BDL	28.8	40.2	12.4	15.9	BDL	27.6	39.6	11.6	15.4	BDL																																																																																																																																																																																																																																																																					
iv	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	<ul style="list-style-type: none">No Mining Activities in mining lease area.																																																																																																																																																																																																																																																																																							

Note : Mines is Not in operation. From-1 is Submitted to DGMS



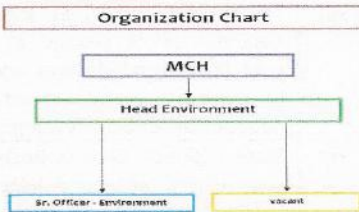
Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

a																																																																																		
v	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">• No Mining Activities in mining lease area.• All the workers working in high noise areas are provided with ear plug/ear muffs. Ambient noise monitoring as well as HEMM noise monitoring is being done on monthly basis. HEMM noise monitoring as well as ambient noise monitoring reports are enclosed as under (a) & (b).																																																																																
a	<table><tr><th colspan="5">Noise Level of HEMM - (April - 2021 to September - 2021)</th></tr><tr><th rowspan="3">Machine</th><th colspan="2">Noise Levels (dB)</th><th colspan="2">Noise Levels (dB)</th></tr><tr><th colspan="2"></th><th colspan="2"></th></tr><tr><th>At 5m. distance</th><th>At 10m. distance</th><th>At 5m. distance</th><th>At 10m. distance</th></tr><tr><td>Month</td><td>Leq</td><td>Leq</td><td>Leq</td><td>Leq</td></tr><tr><td>Apr-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr><tr><td>May-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr><tr><td>Jun-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr><tr><td>Jul-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr><tr><td>Aug-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr><tr><td>Sep-21</td><td>NR</td><td>NR</td><td>NR</td><td>NR</td></tr></table>		Noise Level of HEMM - (April - 2021 to September - 2021)					Machine	Noise Levels (dB)		Noise Levels (dB)						At 5m. distance	At 10m. distance	At 5m. distance	At 10m. distance	Month	Leq	Leq	Leq	Leq	Apr-21	NR	NR	NR	NR	May-21	NR	NR	NR	NR	Jun-21	NR	NR	NR	NR	Jul-21	NR	NR	NR	NR	Aug-21	NR	NR	NR	NR	Sep-21	NR	NR	NR	NR																											
Noise Level of HEMM - (April - 2021 to September - 2021)																																																																																		
Machine	Noise Levels (dB)		Noise Levels (dB)																																																																															
	At 5m. distance	At 10m. distance	At 5m. distance	At 10m. distance																																																																														
Month	Leq	Leq	Leq	Leq																																																																														
Apr-21	NR	NR	NR	NR																																																																														
May-21	NR	NR	NR	NR																																																																														
Jun-21	NR	NR	NR	NR																																																																														
Jul-21	NR	NR	NR	NR																																																																														
Aug-21	NR	NR	NR	NR																																																																														
Sep-21	NR	NR	NR	NR																																																																														
b	<table><tr><th colspan="9">Ambient Noise Level Monitoring - (April-2021 to September-2021)</th></tr><tr><th rowspan="3">Month</th><th colspan="8">Noise Levels in dB(A)</th></tr><tr><th colspan="2">Near Face</th><th colspan="2">Haul road</th><th colspan="2">Mines Office</th><th colspan="2">Solaj Village</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><th>Leq (Day)</th><th>Leq (Night)</th></tr><tr><td>Apr-21</td><td></td><td></td><td>44</td><td>40</td><td>41</td><td>39</td><td>40</td><td>35</td></tr><tr><td>May-21</td><td colspan="2" rowspan="5">Note : Mines is Not in operation. From-1 is Submitted to DGMS</td><td>43</td><td>41</td><td>45</td><td>43</td><td>44</td><td>36</td></tr><tr><td>Jun-21</td><td>45</td><td>42</td><td>44</td><td>38</td><td>43</td><td>38</td></tr><tr><td>Jul-21</td><td>48</td><td>40</td><td>47</td><td>41</td><td>51</td><td>44</td></tr><tr><td>Aug-21</td><td>40</td><td>37</td><td>46</td><td>43</td><td>44</td><td>40</td></tr><tr><td>Sep-21</td><td>44</td><td>40</td><td>46</td><td>43</td><td>42</td><td>40</td></tr></table>		Ambient Noise Level Monitoring - (April-2021 to September-2021)									Month	Noise Levels in dB(A)								Near Face		Haul road		Mines Office		Solaj Village		Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Apr-21			44	40	41	39	40	35	May-21	Note : Mines is Not in operation. From-1 is Submitted to DGMS		43	41	45	43	44	36	Jun-21	45	42	44	38	43	38	Jul-21	48	40	47	41	51	44	Aug-21	40	37	46	43	44	40	Sep-21	44	40	46	43	42	40
Ambient Noise Level Monitoring - (April-2021 to September-2021)																																																																																		
Month	Noise Levels in dB(A)																																																																																	
	Near Face		Haul road		Mines Office		Solaj Village																																																																											
	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)																																																																										
Apr-21			44	40	41	39	40	35																																																																										
May-21	Note : Mines is Not in operation. From-1 is Submitted to DGMS		43	41	45	43	44	36																																																																										
Jun-21			45	42	44	38	43	38																																																																										
Jul-21			48	40	47	41	51	44																																																																										
Aug-21			40	37	46	43	44	40																																																																										
Sep-21			44	40	46	43	42	40																																																																										
vi	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to confirm the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December installed before discharge of effluents from workshop.	<ul style="list-style-type: none">• No industrial waste water generated as mines is not in operation.																																																																																
vii	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. The same program may be extended to adjoining village also.	<ul style="list-style-type: none">• All personnel working in mines are provided with PPE's i.e. dust masks, safety shoes, safety goggle, Safety Reflective Jacket & Helmet. Occupational health surveillance program of all the workers (Including Third party workmen) are being undertaken every year by our Occupational Health Centre through our AMH Ambuja Multi Hospital. There is no case of any contraction due to exposure of dust in any workmen.• They are also provided adequate training and information on safety and health aspects.																																																																																

Note : Mines is Not in operation. From-1 is Submitted to DGMS



Compliance Status of Environment Clearance issued to Solaj Mines vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

viii	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.	<ul style="list-style-type: none"> A well established Environmental Management Division (EMD) with suitable qualified personnel is in place. Head of environmental management cell directly report to the Unit Head of the organization. EMD organization chart is enclosed as under: <div style="text-align: center;">  <pre> graph TD MCH[MCH] --> HE[Head Environment] HE --> SOE[Sr. Officer - Environment] HE --> V[vacant] </pre> </div>
ix	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure should be reported to Regional Office, Bhopal of the Ministry of Environment and Forests and to the Ministry.	<ul style="list-style-type: none"> Details of capital and recurring expenditure for environmental protection measures are enclosed as under:

Expenditure incurred in Environment Management Plan			Ambuja Cement Foundation - Ambujanagar							
A. Capital Investment for Environmental Monitoring :			Details for programme wise expenditure for the year April 2021 to Sept. 2021							
S.No	Particulars	Cost (In Lacs)	Sr.No	Programme	ACF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp. (Rs. In lakhs)
1	Monitoring Equipments	37.08	1	GUJARAT - Kolar						
2	Environment Laboratory	10		Water Resource Management & Drinking Water Projects						
3	Others (Monitoring Van, DG Sets etc.)	10		a. Water Resource Development	4.68	--	--	--	--	4.68
	Total (In Lacs INR)	57.08		B. Drinking Water Programme	2.40	2.54	--	1.00	160.48	166.73
B. Recurring Expenditure for the period of April 2021 to September 2021			2	Agriculture Development, Drip Irrigation, Farm Forestry & Afforestation)	7.03	--	0.05	54.08	53.20	121.56
1	Green belt development & Dust suppression	0.00	3	BCI	7.68	1.01	121.85	28.24	35.02	195.80
2	Manpower Cost *	28.14	4	Krishna Vigyan Kendra (KVK) - Agriculture	1.02	69.23	--	--	--	70.25
3	House Keeping	0.00	5	Health & Sanitation	4.85	--	0.23	34.20	--	47.28
4	Other Env. Protection (Environmental Monitoring)	1.39	6	Educates Programme	0.63	--	--	--	--	0.63
5	Environment Awareness *	0.75	7	Women / Youth Development	2.71	--	--	--	--	2.71
	Total (In Lacs INR)	30.28	8	Skill and Entrepreneurship Development Programme	17.02	24.76	0.12	12.52	--	54.42
			9	Integrated Community Development Programme	91.86	--	23.77	--	--	121.73
			10	Co-ordination & Administration Expenses	--	--	--	--	--	0.00
			11	Capital Expenditure	--	--	--	--	--	0.00
			TOTAL		140.00	97.84	168.62	130.64	248.71	785.81

* Expenditures are Common for All the Plants & Mines.

* Expenditures are Common for All the Plants & Mines.

x	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing requisite data/information /monitoring reports.	<ul style="list-style-type: none"> Full support and co-operation is being extended during the visit of officers from Ministry of Environment & Forest, CPCB as well as GPCB Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to 13.10.10.
xi	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhopal, Central Pollution Control Board and State Pollution Control Board.	Half yearly compliance status report is being regularly submitted, our last submission was on 17.05.2021 vide letter no. ACL/EMD/F-16/2021/2350/88962.
xii	A copy of the clearance letter will be marked to the concerned panchayat/local NGO, if any, from whom suggestions/representation has been received while processing the proposal.	<ul style="list-style-type: none"> A copy of clearance letter has been marked to concern.

Note : Mines is Not in operation. From-1 is Submitted to DGMS



Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter no. J-11015/177/2006-IA, II (M) dated 6th March 2007

xiii	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.	Required Information is already intimated to MoEF, Bhopal.
xiv	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's/Tehsildar's Office for 30 days.	<ul style="list-style-type: none"> GPCB is the concern authority for the same.
xv	The project authorities should advertised at least in two local newspapers widely circulated, one of which shall be in 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 the Regional Office of this Ministry located at Bhopal.	<ul style="list-style-type: none"> Advertisement was published in two local newspapers. Copy of advertisement has been submitted to MoEF on 25.12.2010 vide letter no. ACL/EMD/F16/2010/55925.
3	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	<ul style="list-style-type: none"> Point noted. Agreed.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (protection) Act, 1986.	<ul style="list-style-type: none"> Agreed. However, all the conditions mentioned in the EC are being complied with.
5	The above conditions will be enforced intra-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 Court of fast Track Judge & Joint District Judge, Veraval in the subject matter.	<ul style="list-style-type: none"> Agreed. 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

Note : Mines is Not in operation. From-1 is Submitted to DGMS



Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter
no. J-11015/177/2006-IA, II (M) dated 6th March 2007

Kindly Note that Mine is not in operation& form-I is submitted to DGMS

Ambuja
Cement

ACL/MIN/2019/ 86008

Date: 31.07.2019

Registered Post

To,

The Director General of Mines Safety,
Directorate - General of Mines Safety,
Dhanbad, Jharkhand - 826 001.

Sub: Notice of Abandonment of Mine.

Dear Sir,


We are enclosing herewith the Notice of Abandonment of Mine in "Form - I" at our Solaj Limestone & Marl Mine of M/s. Ambuja Cements Ltd. as required under the Regulation 6(2) of the Metalliferous Mines Regulations, 1961.

Kindly acknowledge receipt of the same.

Thanking you,

Yours faithfully,

For Solaj Limestone & Marl Mine,


(S Ramarao)
MCH (W & S) & Agent (Mines)

Encl: a/a

- cc: 1) Dy. Director General of Mines Safety,
North-West Zone,
Sector-B, Hiran Magri,
Jhamarkotra Main Road,
Bappa Rawal Nagar,
Udaipur- 313 002 (Rajasthan)
- 2) The Director of Mines Safety,
Directorate General of Mines Safety
No. 30, Sahajanand Villa-II,
Near ONGC Complex,
New C.G. Road, Chanokheda,
Ahmedabad - 382424, (Gujarat)
- 3) The District Magistrate,
Collectorate Office,
P.O. - Veraval,
Dist: Gir Somnath, Gujarat.

Regd. Office :
PO : Ambujanagar - 362 715, Tal : Kodinar,
Dist : Gir Somnath (Gujarat)
Phone : (02795) 221137, 232009,
Fax : (02795) 220326, 232032

Ambuja Cements Limited
(Unit : Ambujanagar)
CIN No. : L26942GJ1981PLC006717
www.ambujacementl.com

Corporate Office :
Elegant Business Park,
MDC Cross Road 'B'
Off Andheri - Kurla Road, Andheri (E)
Mumbai - 400 059. Phone : (022) 4056700

Note : Mines is Not in operation. From-1 is Submitted to DGMS

Page 9 of 10



Compliance Status of Environment Clearance issued to Solaj Mines Vide MoEF&CC Letter No: letter
no. J-11015/177/2006-IA, II (M) dated 6th March 2007

FORM - I

(See Regulation 6(2) of MMR 1961)

Notice of Abandonment of Mines

From:
Ambuja Cements Limited,
P.O. Ambujanagar - 362 715,
Tal: Kodinar, Dist: Gir Somnath,
Gujarat.

To:

1. The Director General of Mines Safety,
Directorate - General of Mines Safety,
Dhanbad, Jharkhand - 826 001.
2. Dy. Director General of Mines Safety,
North-West Zone,
Sector-6, Hiran Magri,
Jharmarkotra Main Road, Bappa Rawal Nagar,
Udaipur- 313 002 (Rajasthan)
3. The Director of Mines Safety,
Directorate General of Mines Safety
No. 30, Sahajanand Villa-II, Near ONGC Complex,
New C.G. Road, Chandkheda,
Ahmedabad - 382424 (Gujarat)
4. The District Magistrate,
Collectorate Office,
P.O. - Veraval,
Dist: Gir Somnath, Gujarat.

Sir,

I have to furnish the following particulars in respect of abandonment of mines at Solaj
Limestone & Marl Mine of M/s. Ambuja Cements Ltd., P.O. Ambujanagar, Taluka
Kodinar, Dist: Gir Somnath, Gujarat.

- | | | |
|---|---|-----------------|
| 1. In case of change of Name of Mine | : | Not Applicable. |
| 2. (a) Situation of the Mine: | : | |
| - Village | : | Solaj |
| - Police Station | : | Sutrapada |
| - Taluka | : | Sutrapada |
| - District | : | Gir Somnath |
| - State | : | Gujarat |
| (b) In case of a new mine / particulars
of situation of mine | : | Not applicable. |

Note : Mines is Not in operation. From-1 is Submitted to DGMS

