

# Ambuja Cement

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REGD. A/D

ACL/EMD/F-16/2021/2345

17.05.2021

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 **Sugala Limestone Mines.**


**Ref. :** Environmental Clearance No. J-11015/154/2018- IA.II (M) dated 15.01.2021

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of **(October'2020 to March'2021)** of Environmental Clearance No. J-11015/154/2018-IA-II (M) dated 15.01.2021 granted by MoEF&CC to **Sugala Limestone Mines** of Ambuja Cements Ltd., located at village – Sugala & Jagatiya, Taluka - Kodinar, District – Gir Somnath (Gujarat).

Thanking you,

Yours Faithfully,  
For Ambuja Cements Ltd.

  
Singh Anand Prakash  
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.

**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 &amp; Forests, Regional Office (W), Bhopal

**Monitoring Report, Part-I****DATA SHEET**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Reply</b>
01	Project type	Mining
02	Name of the project	Sugala Limestone Mining Project
03	Clearance letter(s) / OM no. and date	No. J-11015/6/2000 – IA,II (M), dated 20.06.2002 & No. J-11015/154/2018-IA-II(M), dated 15.01.2021
04	Location	
	a) District(s)	Gir Somnath
	b) State(s)	Gujarat
	c) Latitude	20° 52' 45" – 20° 54' 45"
	d) Longitude	70° 45' 30" – 70° 46' 45"
05	Address for correspondence	
	a) Address of concerned Project Chief Engineer (with pin code & telephone / telex / fax numbers).	<b>Sh. Anupam Agrawal</b> Manufacturing Cluster Head (W&S) Ambuja Cements Ltd. PO Ambujanagar, Taluka : Kodinar, District: Gir Somnath (Gujarat). <b>Pin. : 362715 ,</b> <b>Tel: 02795-237011 , Fax: 02795 - 220328/232032</b>
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	Sh. Ganpat RAM, Mines Manager, Ambuja Cements Ltd PO :Ambujanagar , Taluka - Kodinar District : Gir Somnath (Gujarat) Pin. : 362715 <b>Tel: 02795-237217, Fax: 02795 - 220328/232032</b>
06	Salient features	
	a) Present Status of the project	Ambuja Cements Ltd. has cement manufacturing plant at Ambujanagar in Kodinar Taluka of Gir Somnath District. Limestone is the main raw material for the cement plants. The materials are being exploited from company's own captive mines i.e. Sugala Limestone Mine. Sugala is located at a distance of about 18 kms in NNE direction with respect to cement plant. The rated capacity of the limestone is 1.29 MTPA.
	b) of the environmental management plans	<ul style="list-style-type: none"> <li>* Mining operations do not involve drilling and blasting for material rising. Limestone excavation being carried out by Surface Miner &amp; Ripper Dozer</li> <li>* Regular monitoring of environmental parameters is carried out as per the norms evolved by MoEF and IBM.</li> <li>* Preventive maintenance of deployed HEMM being undertaken on regular basis.</li> <li>* Dust suppression by water sprinkling on haul roads and in working area.</li> <li>* Afforestation / Green belt development along haul road near office building and lease periphery is being implemented.</li> <li>* Mined-out areas would be converted to plantation / agri-farm and water reservoirs as envisaged in the mining plan partial reclaiming already done.</li> <li>* Socio-economic improvement measures are being undertaken in the project buffer zone as envisaged.</li> </ul>

07	Break up of the project area.	
	a) Submergence area( forest & non-forest )	Not Applicable
	b) Others	Private Land - 414.8493 ha , Govt. Land - 2.5091 ha
08	Break up of the project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units & agricultural land & landless labourers / artisans.	Not Applicable, since there is no human settlement in the core zone area,
	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.	Limestones raised from Sugala area partially supplement the requirements of existing cement units. As it is a captive mine for the existing cement plants, no separate project costing was made.
	b) Allocation made for environmental management plans with item wise and year wise break-up.	Rs. 10.27 Cr.
	c) Benefit cost ratio / Internal rate of return and the year of assessment.	No separate assessment made, as it is a captive mine.
	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. 7.87 Crores.
	f) Actual expenditure incurred on the environmental management plans so far.	Actual expenditure incurred on the environmental management plans so far is Rs. 8.68 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 hence not 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.	The project does not involve clear felling of trees.
12	Status of construction.	
	a) Date of commencement (Actual and / or planned)	2 <sup>nd</sup> November 2002
	b) Date of completion (Actual and / or planned).	Ongoing Project
13	Reasons for the delay if the project is yet to start.	Not applicable.
14	Dates of site visits	
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	1.) 12.10.10 to 13.10.10 by Dr. A. Mehrotra MoEFCC Regional Office, Bhopal 2.) 29/03/2019 by Dr. H.V.C Chary Guntupalli, Regional Director Bhopal
	b) Date of site visit for this monitoring report	1.) 17.08.2016 2.) 29/03/2019
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 <b>03.11.2020 vide letter No. ACL/EMD/F-16/2020/2230/88130</b>

**Compliance Status of Environment Clearance issued to Sugala Limestone Mines  
vide MoEF Letter No : J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021**

S N	Environmental Conditions	Compliance status
A.	Specific conditions	
a)	Plantation must be completed within 3 years along the periphery of the lease area.	<ul style="list-style-type: none"> <li>Agreed,</li> <li>Total area under greenbelt/plantation up to conceptual stage will be 46.0 ha. As on date 14.6947 ha area has been covered under greenbelt plantation. Remaining 33.0742 ha area will be covered under greenbelt/Plantation up to conceptual stage. The company has planted local species for greenbelt development in consultation with forest department.</li> </ul>
		
b)	Total plantation must be completed within 4 years before the closure of mine which shall be duly approved by IBM and must be incorporated in the approved mining plan.	<ul style="list-style-type: none"> <li>Agreed,</li> <li>A conceptual plan will be incorporated in mining plan.</li> </ul>
c)	The project proponent shall adopt the appropriate mitigation measures to prevent negative impacts of mining activities on the	<ul style="list-style-type: none"> <li>Agreed,</li> <li>Appropriate mitigation measure will be taken to prevent negative impacts. Presently due to the</li> </ul>



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	neighboring areas.	our rain water harvesting initiative the salinity of the ground water has been effectively reduced and now the neighboring farmers are using ground water for watering their crops. They are taking three crops in a year where earlier there was only single crop farming were in practice.
d)	Broad leaved tree sapling of not less than 10 feet height and maintenance of the same shall be carried.	<ul style="list-style-type: none"> <li>Agreed,</li> </ul>
<b>B.</b>	<b>Standard conditions</b>	
<b>I.</b>	<b>Statutory compliance</b>	
1	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	<ul style="list-style-type: none"> <li>Noted</li> </ul>
2	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August ,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations .	<ul style="list-style-type: none"> <li>Noted,</li> <li>As this is running mine since 2002 and no addition of equipment /machinery or expansion of capacity.</li> </ul>
3	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	<ul style="list-style-type: none"> <li>Noted,</li> <li>As this is running mine since 2002 and no addition of equipment /machinery or expansion of capacity. Monthly report is submitted to department of mining and geology.</li> </ul>
4	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No.Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	<ul style="list-style-type: none"> <li>Noted,</li> <li>There is no R &amp; R issue related to mining activity.</li> </ul>
5	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	<ul style="list-style-type: none"> <li><b>Complied.</b></li> <li>EC copy is submitted to concerned panchayats vide our letter nos. <b>ACL/EMD/F-09/2021/2266-68, Dated 18.01.2021.</b></li> </ul>

# Compliance Status of Environment Clearance issued to Sugala Limestone Mines vide MoEF Letter No : J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021

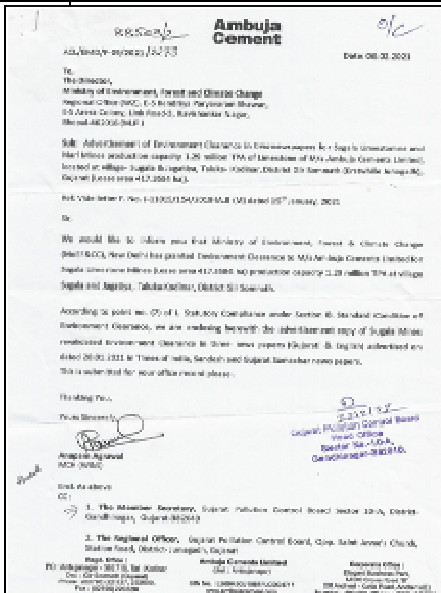


<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2263 Date: 18.01.2021</p> <p>To, Gram Panchayat, Village Jagatiya, Taluka: Kodinar District: Gir Somnath</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>	<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2263 Date: 18.01.2021</p> <p>To, Gram Panchayat, Village Sugala, Taluka: Kodinar District: Gir Somnath</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>	<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2266 Date: 18.01.2021</p> <p>To, President Shri Gorath Mahila Vikas Sanstha Mandal, Ravi Complex, Doctor House, Una Zappa Kodinar, Gir Somnath</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>
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| <p>6</p> <p>State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar 's Office for 30 days.</p> | <ul style="list-style-type: none"> <li>Complied.</li> <li>Informed to GPCB vide our letter no ACL/EMD/F-09/2021/2259/88444 dtd 18.01.2021, to District development officer ACL/EMD/F-09/2021/2269 18.01.2021, District Collector ACL/EMD/F-09/2021/2263 dtd 18.01.2021, to District Industry Center ACL/EMD/F-09/2021/2264 dtd 18.01.2021.</li> </ul> |
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<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2263 Date: 18.01.2021</p> <p>To, District Collector District: Gir Somnath</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>	<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2263 Date: 18.01.2021</p> <p>To, District Development Officer, District: Gir Somnath</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>	<p><b>Ambuja Cement</b></p> <p>ACLU/EMD/F-09/2021/2266 Date: 18.01.2021</p> <p>To, District Industry Centre District: Junagadh</p> <p>Sub: Environment Clearance as per MoEFCC Notification dtd. 06.04.2018 for Sugala Limestone and Marl Mines with production capacity 1.29 million TPA of Limestone of M/s Ambuja Cement Limited, located at village- Sugala and Jagatiya, Taluka : Kodinar, District Gir Somnath (Eravahle Junagadh), Gujarat (Lease area 417.3584 ha)</p> <p>Ref: Vide letter F. No. J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021</p> <p>Sir,</p> <p>We would like to inform you that Ministry of Environment, Forest &amp; Climate Change (MoEF&amp;CC), New Delhi has granted Environment Clearance to M/s Ambuja Cement Limited for Sugala Limestone Mines (Lease area 417.3584 ha) production capacity 1.29 million TPA at village Sugala and Jagatiya, Taluka-Kodinar, District Gir Somnath.</p> <p>According to point no. (5) of I. Statutory Compliance under Section B. Standard Condition of Environment Clearance, we are hereby submitting the copy of Environment Clearance of Sugala Limestone mining for your kind information and reference please.</p> <p>Thanking you.</p> <p>Yours faithfully, For Ambuja Cement Ltd</p> <p><i>[Signature]</i> Anupam Agrawal MCH (W&amp;S)</p>
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| <p>7</p> <p>The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has</p> | <ul style="list-style-type: none"> <li>Complied.</li> <li>The grant of EC has advertised in local news papers &amp; copy of the same is forwarded to MoEFCC RO Bhopal vide our letter no ACL/EMD/F-09/2021/2273/88503/2 dtd 06.02.2021.</li> </ul> |
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**Compliance Status of Environment Clearance issued to Sugala Limestone Mines  
vide MoEF Letter No : J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021**

	<p>been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (<a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a>). A copy of the advertisement may be forwarded to the concerned MoEF&amp;CC Regional Office for compliance and record.</p>	
	  	
8	<p>The Project Proponent shall inform the MoEF&amp;CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.</p>	<ul style="list-style-type: none"> <li>Noted.</li> </ul>
<b>II.</b>	<b>Air Quality Monitoring and Preservation</b>	
9	<p>The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations , of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/1, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in</p>	<ul style="list-style-type: none"> <li>We have initiated procurement of the CAAQMS, which will be installed in 120° angle considering the predominant wind direction. However manual monitoring of ambient air quality is being regularly monitored at 06 locations.</li> </ul>



**Compliance Status of Environment Clearance issued to Sugala Limestone Mines  
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	the impact zone. The ambient air quality shall also be monitored at prominent places like office building , canteen etc. as per the site condition to ascertain the exposure characteristics at specific places . The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	
10	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling , metttled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.	<ul style="list-style-type: none"> <li>We have deployed mechanized covered dumpers for transportation of limestone. We have deployed dedicated water tankers for water sprinkling on haul road. We have surface miners equipped with water spray system during loading and excavating the limestone.</li> <li>Half yearly <b>ambient air quality monitoring report is being regularly submitted to MoEF&amp;CC</b>, our last submission was on <b>03.11.2020 vide letter no. ACL/EMD/F-16/2020/2230/88130</b></li> <li>Ambient air quality monitoring results for the period <b>October'2020 to March'2021</b> is enclosed as under.</li> </ul>

<b>Ambient Air Quality Monitoring Results (October'2020 to March'2021 )</b>															
Month	Working Place					Sugala Village					Jagathya Village				
Unit >	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)
Oct 2020	25.6	44.6	11.9	14.2	BDL	28.9	47.9	12.3	15.0	BDL	27.6	50.2	12.1	15.2	BDL
	26.6	39.6	11.5	15.2	BDL	23.5	41.2	12.3	14.0	BDL	24.6	43.2	11.9	15.3	BDL
Nov.2020	27.6	48.8	11.1	20.8	BDL	30.5	50.8	12.2	16.5	BDL	28.9	49.7	10.9	17.3	BDL
	28.5	48.5	11.5	13.9	BDL	27.6	50.2	10.9	14.8	BDL	31.1	51.6	12.3	15.1	BDL
Dec.2020	28.2	50.9	9.9	16.6	BDL	31.5	48.6	12.4	14.9	BDL	32.8	52.7	11.4	17.1	BDL
	30.2	50.1	10.8	16.0	BDL	33.1	49.1	11.4	14.8	BDL	29.4	53.4	9.8	17.1	BDL
Jan. 2021	30.8	52.5	11.5	15.2	BDL	29.5	49.8	12.2	14.8	BDL	33.1	51.3	10.5	16.2	BDL
	28.5	52.5	10.8	16.2	BDL	31.6	49.5	9.5	14.2	BDL	33.5	51.6	12.5	16.5	BDL
Feb. 2021	26.8	49.8	10.8	14.0	BDL	32.5	46.5	11.9	13.5	BDL	29.1	49.7	12.2	14.9	BDL
	31.1	49.6	11.6	14.9	BDL	28.8	53.2	12.5	16.5	BDL	28.5	48.8	9.9	15.7	BDL
Mar. 2021	32.5	52.5	12.2	14.2	BDL	26.4	46.7	10.8	17.0	BDL	31.9	49.2	9.8	15.9	BDL
	32.3	45.9	9.6	15.4	BDL	29.4	52.4	12.4	16.2	BDL	28.3	48.4	11.6	14.9	BDL
Month	Chhachhar Village					Nagadala Village					Kansariya Village				
Unit >	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)	PM 2.5 (µg/m3)	PM 10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	CO (mg/m3)
Oct 2020	29.5	46.1	10.9	13.9	BDL	30.2	44.3	11.6	14.8	BDL	29.8	45.2	10.8	13.5	BDL
	31.3	40.2	10.6	14.9	BDL	23.6	41.5	13.0	14.1	BDL	26.6	39.6	12.5	13.9	BDL
Nov.2020	24.5	47.1	11.8	18.2	BDL	31.6	52.8	12.4	17.7	BDL	30.8	48.5	10.9	18.8	BDL
	29.5	48.8	10.8	14.0	BDL	28.7	47.1	11.4	13.9	BDL	30.3	50.9	10.9	14.8	BDL
Dec. 2020	30.5	51.3	10.8	16.1	BDL	28.9	50.8	9.7	15.4	BDL	27.2	49.2	11.5	14.7	BDL
	31.1	49.2	13.1	15.8	BDL	28.9	52.2	12.8	14.4	BDL	31.8	51.7	11.5	16.3	BDL
Jan. 2021	31.6	53.2	12.9	17.1	BDL	29.5	50.2	10.8	14.8	BDL	32.5	51.6	11.8	15.2	BDL
	30.5	50.8	11.8	17.1	BDL	28.8	49.8	12.7	16.5	BDL	29.5	51.7	10.8	15.8	BDL
Feb. 2021	30.5	48.5	9.8	15.8	BDL	31.1	53.5	11.7	16.7	BDL	29.4	54.2	12.1	17.1	BDL
	32.5	46.6	13.1	16.4	BDL	31.9	52.2	11.4	15.9	BDL	27.4	49.9	9.6	14.6	BDL
Mar. 2021	28.7	53.2	11.3	14.6	BDL	30.3	45.9	12.4	16.2	BDL	28.8	51.8	10.7	17.2	BDL
	30.7	51.7	12.2	16.3	BDL	32.7	50.6	10.7	17.2	BDL	28.5	49.2	9.9	15.5	BDL



**Compliance Status of Environment Clearance issued to Sugala Limestone Mines  
vide MoEF Letter No : J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021**

III.	<b>Water quality monitoring and preservation</b>	
11	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	<ul style="list-style-type: none"> <li>• Noted.</li> </ul>
12	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	<ul style="list-style-type: none"> <li>• Ground water level &amp; Analysis monitoring is being done regularly by establishing a network of ground water monitoring stations. Report is submitted to MoEF&amp;CC regional office Bhopal, CGWB , CGWA and GPCB on <b>yearly (April'2020 to March'2021) basis. Last submitted on 26.04.2021 vide letter no ACL/EMD/F-9/2021/2321</b></li> </ul>
13	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May) , monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	<ul style="list-style-type: none"> <li>• Ground water level &amp; Analysis monitoring is being done regularly by establishing a network of ground water monitoring stations. Report is submitted to MoEF&amp;CC regional office Bhopal, CGWB , CGWA and GPCB on <b>yearly (April'2020 to March'2021) basis. Last submitted on 26.04.2021 vide letter no ACL/EMD/F-9/2021/2321</b></li> </ul>

# Compliance Status of Environment Clearance issued to Sugala Limestone Mines vide MoEF Letter No : J-11015/154/2018-IA-II (M) dated 15<sup>th</sup> January, 2021

**CC: Ambuja Cement**

25877

25.04.2021

ACUM/01/9/2021/2371

The Regional Director,  
Central Ground Water Board,  
West Central Region, Bhavnagar Building,  
Bhat Asha Tola, Ahmedabad (Gujarat) Pin - 380022

**Subject:** Regarding submission of Ground Water level & Quality monitoring report of Sugala Limestone Mines

**Reference No:** 1. CC-J-11015/154/2018-IA-II (M) dated 15.01.2021  
2. NDC/CGWA/25-236/CGWA/NDC/04/2018 dated 01.02.2019

Dear Sir,

This is with reference to EC granted by your good office vide letter No. J-11015/154/2018-IA-II (M) dated 15.01.2021 to our Sugala Limestone Mines Project of M/s. Ambuja Cement Limited, located at village Sugala & Jagajaya, Taluka Kodinar, District Gir, Sonamth, Gujarat.

As per the Standard condition No 12 of the said EC and also the NDC granted by CGWA, New Delhi vide NDC No. CGWA/25-236/CGWA/NDC/04/2018 Dtd. 01.02.2019, We are pleased to submit Ground Water Level & Quality Monitoring Report for the year 2020-2021 of pre-monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January).

Kindly acknowledge the receipt of the same.

Thanking You,  
Yours faithfully,  
For Ambuja Cement Limited

*(Signature)*  
Head - Environment

End: As above

CC: 1. Ministry of Environment, Forest and Climate Change, 3/10/1007, Prime Wing, Indira Prastha, Bhawan, Jor Bagh, New Delhi, 110003  
2. Ministry of Environment & Forest (Gujarat), Regional Office, Western Region, "Kandiyaj" (Kandiyaj) Highway Link Road No. 3, Raju Shikhar Nagar, Bhuj (M.P.) 482016.

Regional Office: Ambuja Cement Limited (Gujarat)  
CC: 1. Ministry of Environment, Forest and Climate Change, 3/10/1007, Prime Wing, Indira Prastha, Bhawan, Jor Bagh, New Delhi, 110003  
2. Ministry of Environment & Forest (Gujarat), Regional Office, Western Region, "Kandiyaj" (Kandiyaj) Highway Link Road No. 3, Raju Shikhar Nagar, Bhuj (M.P.) 482016.

Dec-2020															
S.No.	Well No.	Parameters		Well Water										Piezometers	
		Depth	Pressure	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
1	10001	10	10	10	10	10	10	10	10	10	10	10	10	10	
2	10002	10	10	10	10	10	10	10	10	10	10	10	10	10	
3	10003	10	10	10	10	10	10	10	10	10	10	10	10	10	
4	10004	10	10	10	10	10	10	10	10	10	10	10	10	10	
5	10005	10	10	10	10	10	10	10	10	10	10	10	10	10	
6	10006	10	10	10	10	10	10	10	10	10	10	10	10	10	
7	10007	10	10	10	10	10	10	10	10	10	10	10	10	10	
8	10008	10	10	10	10	10	10	10	10	10	10	10	10	10	
9	10009	10	10	10	10	10	10	10	10	10	10	10	10	10	
10	10010	10	10	10	10	10	10	10	10	10	10	10	10	10	
11	10011	10	10	10	10	10	10	10	10	10	10	10	10	10	
12	10012	10	10	10	10	10	10	10	10	10	10	10	10	10	
13	10013	10	10	10	10	10	10	10	10	10	10	10	10	10	
14	10014	10	10	10	10	10	10	10	10	10	10	10	10	10	
15	10015	10	10	10	10	10	10	10	10	10	10	10	10	10	
16	10016	10	10	10	10	10	10	10	10	10	10	10	10	10	
17	10017	10	10	10	10	10	10	10	10	10	10	10	10	10	
18	10018	10	10	10	10	10	10	10	10	10	10	10	10	10	
19	10019	10	10	10	10	10	10	10	10	10	10	10	10	10	
20	10020	10	10	10	10	10	10	10	10	10	10	10	10	10	
21	10021	10	10	10	10	10	10	10	10	10	10	10	10	10	
22	10022	10	10	10	10	10	10	10	10	10	10	10	10	10	
23	10023	10	10	10	10	10	10	10	10	10	10	10	10	10	
24	10024	10	10	10	10	10	10	10	10	10	10	10	10	10	
25	10025	10	10	10	10	10	10	10	10	10	10	10	10	10	
26	10026	10	10	10	10	10	10	10	10	10	10	10	10	10	
27	10027	10	10	10	10	10	10	10	10	10	10	10	10	10	
28	10028	10	10	10	10	10	10	10	10	10	10	10	10	10	
29	10029	10	10	10	10	10	10	10	10	10	10	10	10	10	
30	10030	10	10	10	10	10	10	10	10	10	10	10	10	10	
31	10031	10	10	10	10	10	10	10	10	10	10	10	10	10	
32	10032	10	10	10	10	10	10	10	10	10	10	10	10	10	
33	10033	10	10	10	10	10	10	10	10	10	10	10	10	10	
34	10034	10	10	10	10	10	10	10	10	10	10	10	10	10	
35	10035	10	10	10	10	10	10	10	10	10	10	10	10	10	
36	10036	10	10	10	10	10	10	10	10	10	10	10	10	10	
37	10037	10	10	10	10	10	10	10	10	10	10	10	10	10	
38	10038	10	10	10	10	10	10	10	10	10	10	10	10	10	
39	10039	10	10	10	10	10	10	10	10	10	10	10	10	10	
40	10040	10	10	10	10	10	10	10	10	10	10	10	10	10	
41	10041	10	10	10	10	10	10	10	10	10	10	10	10	10	
42	10042	10	10	10	10	10	10	10	10	10	10	10	10	10	
43	10043	10	10	10	10	10	10	10	10	10	10	10	10	10	
44	10044	10	10	10	10	10	10	10	10	10	10	10	10	10	
45	10045	10	10	10	10	10	10	10	10	10	10	10	10	10	
46	10046	10	10	10	10	10	10	10	10	10	10	10	10	10	
47	10047	10	10	10	10	10	10	10	10	10	10	10	10	10	
48	10048	10	10	10	10	10	10	10	10	10	10	10	10	10	
49	10049	10	10	10	10	10	10	10	10	10	10	10	10	10	
50	10050	10	10	10	10	10	10	10	10	10	10	10	10	10	
51	10051	10	10	10	10	10	10	10	10	10	10	10	10	10	
52	10052	10	10	10	10	10	10	10	10	10	10	10	10	10	
53	10053	10	10	10	10	10	10	10	10	10	10	10	10	10	
54	10054	10	10	10	10	10	10	10	10	10	10	10	10	10	
55	10055	10	10	10	10	10	10	10	10	10	10	10	10	10	
56	10056	10	10	10	10	10	10	10	10	10	10	10	10	10	
57	10057	10	10	10	10	10	10	10	10	10	10	10	10	10	
58	10058	10	10	10	10	10	10	10	10	10	10	10	10	10	
59	10059	10	10	10	10	10	10	10	10	10	10	10	10	10	
60	10060	10	10	10	10	10	10	10	10	10	10	10	10	10	
61	10061	10	10	10	10	10	10	10	10	10	10	10	10	10	
62	10062	10	10	10	10	10	10	10	10	10	10	10	10	10	
63	10063	10	10	10	10	10	10	10	10	10	10	10	10	10	
64	10064	10	10	10	10	10	10	10	10	10	10	10	10	10	
65	10065	10	10	10	10	10	10	10	10	10	10	10	10	10	
66	10066	10	10	10	10	10	10	10	10	10	10	10	10	10	
67	10067	10	10	10	10	10	10	10	10	10	10	10	10	10	
68	10068	10	10	10	10	10	10	10	10	10	10	10	10	10	
69	10069	10	10	10	10	10	10	10	10	10	10	10	10	10	
70	10070	10	10	10	10	10	10	10	10	10	10	10	10	10	
71	10071	10	10	10	10	10	10	10	10	10	10	10	10	10	
72	10072	10	10	10	10	10	10	10	10	10	10	10	10	10	
73	10073	10	10	10	10	10	10	10	10	10	10	10	10	10	
74	10074	10	10	10	10	10	10	10	10	10	10	10	10	10	
75	10075	10	10	10	10	10	10	10	10	10	10	10	10	10	
76	10076	10	10	10	10	10	10	10	10	10	10	10	10	10	
77	10077	10	10	10	10	10	10	10	10	10	10	10	10	10	
78	10078	10	10	10	10	10	10	10	10	10	10	10	10	10	
79	10079	10	10	10	10	10	10	10	10	10	10	10	10	10	
80	10080	10	10	10	10	10	10	10	10	10	10	10	10	10	
81	10081	10	10	10	10	10	10	10	10	10	10	10	10	10	
82	10082	10	10	10	10	10	10	10	10	10	10	10	10	10	
83	10083	10	10	10	10	10	10	10	10	10	10	10	10	10	
84	10084	10	10	10	10	10	10	10	10	10	10	10	10	10	
85	10085	10	10	10	10	10	10	10	10	10	10	10	10	10	
86	10086	10	10	10	10	10	10	10	10	10	10	10	10	10	
87	10087	10	10	1											

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16	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	<ul style="list-style-type: none"> <li>The waste water generated from vehicle washing after oil &amp; grease separation is recycled for vehicle washing purpose. The waste water quality is monitored regularly.</li> </ul>
17	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	<ul style="list-style-type: none"> <li>The water consumption is for drinking purpose, green belt development &amp; vehicle washing only. The waste water generated from vehicle washing after oil &amp; grease separation is recycled for vehicle washing purpose. The waste water quality is monitored regularly.</li> </ul>

**IV. Noise and vibration monitoring and prevention**

18	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	<ul style="list-style-type: none"> <li>Not Applicable, we are doing mining through eco-friendly surface miners.</li> </ul>
19	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	<ul style="list-style-type: none"> <li>We are operating our mines during day time only i.e. 06:00 AM to 06:00 PM.</li> <li>Mining is done by using eco-friendly surface miners. Tree plantation has been done around the periphery of lease area. The day and night time noise level is very well within the prescribed limit and monitored and reported to GPCB &amp; MoEF&amp;CC regularly.</li> <li>Last six month of <b>Ambient Noise monitoring report</b> is attached below:</li> </ul>

Ambient Noise Level Monitoring (October'2020 to March'2021)										
Month	Noise Levels in dB(A)									
	Near Surface Miner		Haul road		Mines Office		Sugala Village		Chidivav Village	
	I eq (Day)	I eq (Night)	I eq (Day)	I eq (Night)	I eq (Day)	I eq (Night)	I eq (Day)	I eq (Night)	I eq (Day)	I eq (Night)
Oct-20	70	64	66	64	64	55	48	45	53	47
Nov-20	71	65	68	64	64	55	48	45	46	45
Dec-20	69	66	68	62	64	50	46	44	50	45
Jan-21	68	65	66	65	65	61	57	47	51	45
Feb-21	70	67	68	65	64	51	47	46	50	44
Mar-21	75	60	66	63	60	62	62	51	55	49



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20	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	<ul style="list-style-type: none"> <li>Mining is being done by using eco-friendly surface miners. All the HEMM has been provide acoustic cabins for drivers and also has been provided ear plugs to all workers along with other PPEs like safety helmet, safety shoes, safety goggles and reflective jackets.</li> <li>All the machines are emitting noise well 85 dB(A) have deployed loader from LIEBHERR Germany which is the lowest noise generation machine in the world. Last six month of <b>HEMM Noise monitoring report</b> is attached below:</li> </ul>
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Noise Level of HEMM distance (October'2020 to March'2021)								
Machine	Surface Miner			Loader			Dozer	
Month	Conditions	Noise Levels (dB) Leq		Conditions	Noise Levels (dB) Leq		Conditions	Noise Levels (dB) Leq
		At 5m.	At 10m.		At 5m.	At 10m.		At 5m. At 10m.
Oct-20	While dozing the material	70	67	While dozing the material	74	71	While dozing the material	70 64
Nov-20		71	68		74	71		74 72
Dec-20		72	68		75	72		70 65
Jan-21		77	74		76	73		75 73
Feb-21		74	70		75	72		75 68
Mar-21		68	65		72	69		68 62

<b>V.</b>	<b>Mining plan</b>	
21	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste , over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).	<ul style="list-style-type: none"> <li>Noted.</li> </ul>
22	The shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.	<ul style="list-style-type: none"> <li>Noted.</li> <li>The half yearly compliance status is being regularly submitted to MoEF&amp;CC and GPCB. The latest half yearly report submitted vide our letter no <b>ACL/EMD/F-16/2020/2230/88130 dtd 03.11.2020.</b></li> </ul>
<b>VI</b>	<b>Land reclamation</b>	
23	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time . The physical parameters of the OB / waste dumps / topsoil dump	<ul style="list-style-type: none"> <li>Noted,</li> <li>There is no OB. The topsoil is being used for reclamation and plantation.</li> </ul>

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	like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.	
24	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the micro-climate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ gee-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	<ul style="list-style-type: none"> <li>Noted,</li> </ul>
25	Catch drains , settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area , roads, green belt development , plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	<ul style="list-style-type: none"> <li>Noted,</li> <li>Catch drains has been constructed around mine working area.</li> </ul>
26	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	<ul style="list-style-type: none"> <li>There is no OB generation however garland drains around the mine pits have been constructed to avoid runoff into water bodies around lease.</li> </ul>
<b>VII</b>	<b>Transportation</b>	
27	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of	<ul style="list-style-type: none"> <li>We have deployed dedicated water tankers for spraying water on haul roads and roads are being continuously wetted for suppressing the dust emission. We have obtained PUC for our all vehicles.</li> <li>Vehicular emissions are being checked &amp; monitored regularly. <b>Detail of P.U.C certificate by Somnath P.U.C Center (Approved by Government of Gujarat) is attached as under :</b></li> </ul>

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	minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport]	
28	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters , vacuum suction hoods, dry fogging system etc. shall be installed at Crushers , belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	<ul style="list-style-type: none"> <li>We have deployed dedicated water tankers for water spraying on the haulage road and roads are being continuously and regularly wetted to suppress the dust emission.</li> </ul> 
VIII	<b>Green Belt</b>	
29	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	<ul style="list-style-type: none"> <li>Agreed,</li> <li>Total area under greenbelt/plantation up to conceptual stage is 46.0 ha. As on date 14.6947 ha area has been covered under greenbelt plantation. Remaining 33.0742 ha area will be covered under greenbelt/Plantation up to conceptual stage. The company has planted local species for greenbelt development in consultation with forest department.</li> </ul>
		




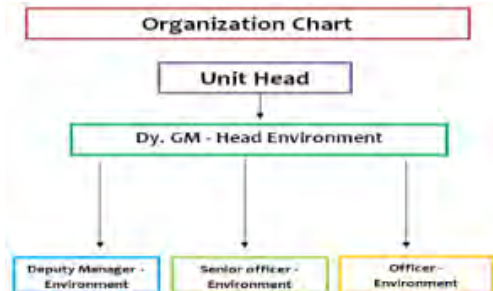
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30	<p>The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.</p>	<ul style="list-style-type: none"><li>• We have developed green belt along lease boundary and maintaining the density 2500 sapling per hectare with native type of species, in consultation with local DFO.</li><li>• We have also developed pasture land on an area of 32.87 Ha in consultation with Krishi Vigyan Kendra (KVK), Gir-Somnath</li></ul>
		
31	<p>The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.</p>	<ul style="list-style-type: none"><li>• We have developed 9.0 hectares of fodder plot at Sabdharvidi, Jamvala jointly with Forest Department. The fund was allotted in two stages: In first stage, fund of Nine Lakhs Twenty Six Thousand Eight Hundred and Fifty Seven thousand (926857/-) was released vide our letter No. GACL/SEP/06/5952 dtd. 03/11/2006. In second Stage, fund of Twelve Lakhs Ninety Nine Thousand Eight Hundred Thirty Nine (1299839/-) was released vide our letter No. GACL/GEO/TRR/05 Dated 15/02/2005. Details of fodder plot developed has been already submitted to MoEF vide our submission dtd. 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55926.</li></ul>

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IX	<b>Public hearing and human health issues</b>	
32	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking , mobile toilets , mobile STP, safe drinking water , medical health care, creche for kids etc. The housing may be provided in the form of temporary structure\$ which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	<ul style="list-style-type: none"> <li>Not applicable as it is existing mine. There is no requirement of any type of labour or /work force.</li> </ul>
X	<b>Miscellaneous</b>	
34	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC .	<ul style="list-style-type: none"> <li>We carry out digital processing of the entire lease area once in every three year. Year 2019 report has been submitted to MoEF&amp;CC, New Delhi and its Regional Office Bhopal on Dated <b>02.03.2020 vide letter No. ACL/EMD/F-9/2020/2092/87092.</b></li> </ul> 
35	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> <li>Point noted.</li> <li>This is an existing and on-going project.</li> <li>This is a running mine and lease is valid till 01/09/2032 (extended till 01/09/2052) Once we will reach at final phase of mine closure we will intimate to inform to the Regional Office located at Bhopal as well as to the Ministry of Environment &amp; Forests and Climate Change.</li> </ul>
36	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC &its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	<ul style="list-style-type: none"> <li>We are submitting six monthly compliance reports to MoEF&amp;CC , RO MoEF&amp;CC and GPCB regularly. The latest six monthly compliance report submitted vide our letter no <b>ACL/EMD/F-16/2020/2230/88130 dtd 03.11.2020.</b></li> </ul>

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<p>37 A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.</p>	<ul style="list-style-type: none"> <li>• A well established Environmental Management Division (EMD) with suitable qualified personnel is in place. Head of environmental management cell directly report to the Works Head of the organization. EMD organization chart is enclosed as under:</li> </ul> 
<p>38 The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions . The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.</p>	<ul style="list-style-type: none"> <li>• Point noted.</li> <li>• Full support and co-operation is being extended during the visit of officers from Ministry of Environment &amp; Forest and Climate Change, CPCB as well as GPCB.</li> </ul>
<p>39 In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations , undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder , flora , fauna etc.</p>	<ul style="list-style-type: none"> <li>• Point noted and agreed</li> </ul>

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