

91502 REGD. A/D

Cement ACL/EMD/F-16/2023/ 2483

Dt.15.05.2023

The Director,

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

Sub.: Half yearly Compliance Status Report of Environmental Clearance of Lodhva Limestone Mines.

Ref.: Environmental Clearance Order No. J-11015/446/2013-IA-II (M) dated 26.05.16

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of (October'2022 to March'2023) of Environmental Clearance Order No. J-11015/446/2013-IA-II (M) granted by MoEFCC to *Lodhva Limestone Mining Project* of Ambuja Cements Ltd., located at village - Lodhva, Taluka - Sutrapada, District - Gir Somnath (Gujarat).

This is for your information and record please.

Thanking you,

Yours faithfully, For Ambuja Cements Ltd.

Devendra Singh Chauhan Head-Environment

Encl.: As above.

Copy to:

- 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.

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MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests Regional Office (W), Bhopal Monitoring Report

Part-I

		A	TA SHEET
01	Project type: River valley/ Mining/Industry/ Thermal/ Nuclear/ other specify		Mining Open Cast (Limestone)
02	Name of the project	:	Lodhva Limestone Mining Project
03	Clearance letter(s) / OM no. and date	:	J-11015/446/2013-IA.II (M), Dated 26.05.2016
04	Location	1:	
	a) District(s)	:	Gir Somnath
	b) State(s)	:	Gujarat
	c) Latitude	:	20° 56' - 20° 58' N
	d) Longitude		70° 31′ – 70° 34′ E
05	Address for correspondence	:	70 31 70 34 0
	a) Address of concerned Project Chief Engineer (with pin code & telephone / telex / fax numbers).	:	Sh. Devendra Singh Chauhan (Head - Environment) Ambuja Cements Ltd. PO Ambujanagar, Taluka: Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-221137/232009/237403 Fax: 02795-220328/232032
	b) Address of Executive Project Engineer /		Sh. Mayur Kumar Galoriya
	Manager (with pincode / fax numbers.	i	Manager (Mines),
	and the region of the second control of the second	ķη,	Ambuja Cements Ltd.
	mine for the Cement Floris, or reparations in a second		PO Ambujanagar, Taluka - Kodinar, Pin- 362715 District: Gir Somnath (Gujarat).
- 1	arean molecularly meanite was the termination in		Tel: 02795-232064 Fax: 02795 - 220328/232032
06	Salient features	10-	pria sully male stilly stally brandgleman
	a) of the project:		Ambuja Cements Ltd. has established cement manufacturing plant at Ambujanagar in Kodinar Taluka of Gir Somnath District. Limestone is the main raw materials for the cement plants, which is being exploited from company's own captive mines i.e. Lodhava Limestone Mine. Lodhva is located at a distance of about 25 kms in NW direction with respect to cement plant. The rated capacity of the limestone at present is 1.50 MTPA.
	b) of the environmental management plans	100	 Mining operations would not involve drilling & blasting. Limestone excavation is being carried out by environment friendly Surface Miner supported by ripper dozer. Regular monitoring of environmental parameters is undertaken as per the norms of MoEF and IBM and same will be followed. Preventive maintenance of deployed HEMM is being undertaken regularly and same will be continued.
	Security (Security)	6	 Dust suppression by water sprinkling on haul roads is being done regularly in working area and same will be continued. Afforestation / Green belt development is being carried out concurrently along haul road, lease periphery and matured area as well as outside lease also (i.e.

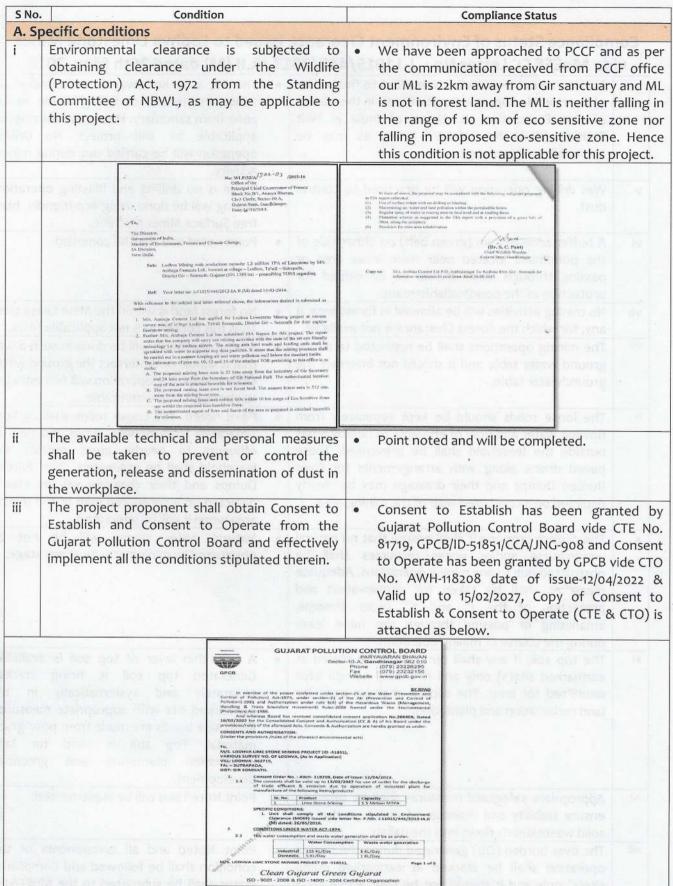


	(anaversu)se vest)se		surrounding Mined-out a water reserv Rural Develo	reas v voir. opmer	vill be o	onvert Socio-e	conomi	c activit	
07	Break up of the project area.								The state of
	a) Submergence area (forest & non-forest)	;	Nil						
	b) Others	:	505 .6839 ha (A TOTAL CONTRACTOR		and the second second		and a constant
80	Break up of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless laborers/ artisan.	: 1 2 3 4 5 6	Project does no permanent sett						
	a) SC, ST / Adivasis	:	Not applicable				Georgia (190	The same of	-E0.1
	b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures if a survey is carried out give details & year of survey)		Not applicable					angual Leelad	
	Financial details a) Project cost as originally planned and subsequent revised estimates and the year of price reference.		Project Cost: Rs. Limestone raised supplement the r captive mine for was prepared.	d fron	n the ements	of exist	ting cem	ent unit	s. As it is
	b) Allocation made for environmental management plans with item wise and	:	Capital investm	ent fo	r envir	onmen	t proteo	ction me	easures -
	management plans with item wise and year wise break-up. Expenditure incurred in Environment Management Plan-Lodniva MINES A. Capital Investment for Environmental Monitoring: S.No Particulars Cost (In Lacs) 1 Monitoring Equipments 37.08 Programme	: De	Capital investm	nt Founda	tion - Ambuja	** Funds from other Donors /		essopirect Funding to Communities	(Rs. in lakhs)
	management plans with item wise and year wise break-up. Expenditure incurred in Environment Management Plan-Lodiva MINES A. Capital Investment for Environmental Mionitoring: S.No Particulars (oxt (In Lacs) 1 Monitoring Equipments 37,08 2 Environment Leboratory 10 3 Others (Monitoring Van, DC Sels etc.) 10 GUJARAT - Kodinar Water Resource Mange		Capital investm 57.08 Lakhs	ent Founda anditure for	tion - Ambuji the year Oct "Funds received through	** Funds from other Donors /	o March 2023	****Direct	(Rs. in lakhs)
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	c) The status of compensatory afforestation (CA), if any	:	Not applicable.
	d) Comments on the viability & sustainability of CA (compensatory afforestation) programme in the light of actual field experience so far.	:	Not applicable.
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads), if any with quantitative information required.	:	The project does not involve felling of trees.
12	Status of construction (Actual & or planned)		
	a) Date of commencement (Actual and / or planned)	:	01.03.2017
	b) Date of completion (Actual and / or planned).	:	Not applicable. As it is an ongoing captive mining Project for cement plant. (Mines life is approximate 8 to 10 years based on reserves)
13	Reasons for the delay if the project is yet to start.	:	Not applicable.
14	Dates of site visits	:	
	 The dates on which the project was monitored by the Regional Office on previous occasions, if any. 	:	
	b) Date of site visit for this monitoring report	:	
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 18.11.2022 vide letter No . ACL/EMD/F-16/2022/2690

..******..







	Environmental clearance is subjected to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.	•	The ML is 22 km away from boundry Gir Sanctuary hence not falling within 10 km zone from sanctuary. Hence condition is not applicable for this project. No Drilling operation will be carried out during mining activity.
V	Wet drilling operation will be practiced to control dust.	•	There is no drilling and blasting operation. Mining will be done using eco-friendly, blast free Surface Miner Machine.
vi	A buffer zone of 50m (green belt) on either side of the pond/nalla located near mine lease area or passing through lease should be developed for protection of the pond/nallah/stream.	•	Point noted and shall be complied.
vii	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	•	No forest land is within the Mine Lease area. Thus this condition is not applicable to us.
viii	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.	•	Mining operation will be done in such a way that it should not intersect the ground water table and mining operation will be restricted to above ground water table.
ix	The loose solids should be kept separately from flowing water and flow of effluents to nearby areas outside the leasehold shall be prevented. These paved drains along with arrangements for Over Burden Dumps and their drainage may be clearly depicted on a contoured map of the mining area.		Point noted. The Loose solids shall be kept separately from flowing water and flow of effluents to nearby areas outside the leasehold shall be prevented. Over Burden Dumps and their drainage will be clearly depicted on a contoured map of the mining area when it will be generated.
X	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the 1 st and 2 nd order streams, emanating or passing through the mine lease during the course of mining operation.	br	Natural water course will be not be obstructed by mining activity at any stage.
xi	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	•	A very thin layer of top soil is available. Generated top soil is being stacked separately and systematically in the earmarked site with appropriate measures. Road side bunds are made from poor grade material. Top soil is used for land reclamation plantation and greenbelt development.
xii	Appropriate safeguard measures shall be taken to ensure stability and drainage of dump so that no solid waste/debris flows into the nallah.	•	Point Noted and will be implemented.
xiii	The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and their phase-wise	•	Point Noted and all components of this condition shall be followed and Compliance status shall be submitted to the MoEF&CC, Bhopal on six monthly basis. Last

6.	should continue u sustaining. Compli to the Ministry of Change and its monthly basis.	pecies to prevent critical areas, use en for stabilization anagement of reha ntil the vegetation ance status should Environment, Fore Regional Office, I	of geo textiles of the dumps. abilitated areas becomes self- d be submitted est and Climate Bhopal on six	10	tus of Environme C Letter No : J-13	Compliance Stavide MoEF 4.0
xiv	sediment directly i water bodies. The utilized for water belt developmen regularly desilted and maintained pro	ed for the working fumps to arrest flanto the adjoining Fee water so collecting the mine area to etc. The drain particularly after operly.	pit, temporary ow of slit and River and other ted should be , roads, green hs should be the monsoon		condition shall be fo	Ill components of this bllowed and Compliance mitted to the MoEFCC, ly basis.
XV	Dimension of the r dumps(s) and the check run-off and rain fall data.	OB benches with	in the mine to	•	wall at the toe of th OB benches within the	nension of the retaining te OB dumps(s) and the ne mine to check run-off te based on the rain fall
xvi	Plantation shall be including a 7.5 m waround the mining roads, etc. by personal consultation with Department. In according to the background water body be around 2500 plantaged.	vide green belt in to glease, OB dumpolanting the native he the local Diddition, plantation ekfilled and reclairy. The density of the	he safety zone b(s), along the ve species in FO/Agriculture shall also be med area and		(October'2022 to M Total Cumulative plais 1000 Nos. Remaining area will plantation as per Details of greenbelt/r as under: In addition, plantation the backfilled and	rom during 2022-2023 arch'2023) is 700 Nos. antation till March'2023 also be covered under approved mining plan. reclamation are enclosed on shall also be raised in reclaimed area and The density of the tress plants per ha
relivé	and their sery of treesly	Gr	eenbelt & Plan	tatio	on Details	a distribute distribute and a
	Total Lease Area (in ha)	Opened up Area (in Ha)	Plantation Are (in Ha)	а	Pasture land (in Ha)	Water Catchment Area (in Ha)
	505.6839	17.3240	0.1724		0.3738	3-9557
xvII	Effective safeguar water sprinkling sh prone to air polluparticulate matter screening plant, lost transfer points. Excarried out on haul the Ambient Air Qunorms prescribed Board in this regard	nall be carried out in the carri	in critical areas high levels of crushing and ig point and all inkling shall be e ensured that conform to the		tanker is in practice on haul roads to c Ambient air quality maintained within	nkling through water at mine lease area and ontrol air borne dust. parameters are being norms prescribed by ttached in Point No.

Pa





Regular water sprinkling is being done on haul roads

- Regular monitoring of water quality upstream and downstream of perennial nallahs falling in the impact zone shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment, Forest and Climate Change, its Regional Office, Bhopal, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- Regular monitoring of water quality upstream and downstream of perennial nallahs falling in the impact zone shall be carried out and record of monitoring data shall be maintained and submitted to Ministry of Environment, Forest and Climate Change, its Regional Office, Bhopal, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- Appropriate measures shall be taken for treatment of the upper catchment of the mine lease area.
- Point Noted

Complied.

- 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.
- Suitable conservation measures shall be implemented to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office Bhopal, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
- Water quality testing is carried out with the help of MoEF&CC certified third party laboratory as per prescribed schedule. Water levels are being recorded in 10 open wells of buffer zone and 2 piezometers are
- constructed in mines area core zone.
 Data collected is being communicated regularly to CGWA, New Delhi, MoEF&CC 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&CC regional office Bhopal, CGWA, CGWB and GPCB on yearly basis.
- Ground water withdrawal for drinking purpose only and we have take CGWA NOC

XXII

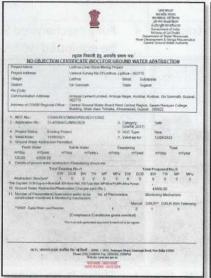
xxi

The project proponent shall obtain necessary prior permission of the competent authorities for drawl

of requisite quantity of water, required for the project.

for ground water withdrawal for 120m3/day. Whereas water requirement for dust suppression and greenbelt development is being met from harvested rain water in mined out pit.

NOC has been granted vide letter No. CGWA/NOC/MIN/ORIG/2021/12562 dtd.
 13.08.2021 from CGWA, New Delhi for abstraction of ground water a tune of 120 m³/day.





Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water board.

Suitable rainwater harvesting measures on long term basis has already been planned and executed by ACF, Ambujanagar. Our Initiative was witnessed and appreciated by Shri Saurav Gupta, Regional Director, CGWB during his visit of Ambujanagar.

Appropriate mitigative measures should be taken to prevent pollution of nearby River in consultation with the State Pollution Control Board.

 These rivers are far off from the project area, State Pollution Control Board will be consulted, if required.

Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.

Vehicular emissions are being checked & monitored regularly. Detail of P.U.C certificate (Approved by : Gujarat Motor Vehicle Department, Gujarat) is enclosed as under:



160	Mg file Mil. Now beauting result (Mil. 1904) Citystyleidstaam (New 2001) 755-2	•	All vehicles used for transportation of raw materials are being covered properly & Not Over loaded.
xxvi	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	•	Blast free fully mechanized Surface Miner machine is being used for mining.
xxvii	Drills shall either be operated with dust extractors or equipped with water injection system.	•	Fully mechanized Surface Miner machine will be equipped with water injection system.
xxvii i	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	•	There is no mineral handling plant at Mine site. Mineral extracted is being transported to cement plant by tippers/truck tipplers, which is being covered with suitable covering mechanism for prevention of fugitive emission.
xxix	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.		Sewage treatment plant has already beer installed & operational at Ambujanagar. No additional colony has been developed at project site. Oil & Grease Trap for workshop of waste water will be provided. Waste water analysis report as under:
		MIT THE	The state of the
xxx	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	•	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records shall be maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
xxxi	Regular monitoring of free silica in the dust will be carried out and records maintained. It shall be	• EM	Regular monitoring of free silica in the dust will be carried out and records shall be

ensured that the levels of silica do not exceed the maintained. prescribed limit. The workers will be provided with Dust Masks, Safety Shoes, Safety Goggles & personal protective measures to guard against Helmet will be provided to each & every inhaling silica dust. personnel working in the mine area. Periodic Health Checkup will be done for personnel working in the mine area. Free silica dust Monitoring is carried out regularly on monthly basis, monitoring results are enclosed as under: xxxii Provision shall be made for the housing of All the operators and competent person will construction labour within the site with all be resided in our existing colony at necessary infrastructure and facilities such as fuel Ambujanagar, Kodinar. for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. xxxii The project proponent should take all Conservation & Management plan of precautionary measures during mining operation schedule 1 species has been prepared and for conservation and protection of endangered authenticated by Chief Wild Life Warden. flora as well as endangered fauna. Action plan for Gandhinagar. Copy of action plan has conservation of flora and fauna shall be prepared submitted to Regional Office, MoEF & CC and implemented in consultation with the State Bhopal. Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office at Bhopal within 3 months. xxxi The critical parameters such as RSPM (Particulate Air quality monitoring and water quality matter with size less than 10 micron i.e., PM₁₀) and monitoring is being done regularly and NO_X in the ambient air within the impact zone, peak report is submitted to GPCB & MoEF&CC. particle velocity at 300m distance or within the Results of Air & Water quality monitoring is nearest habitation, whichever is closer shall be being uploaded on the website of the monitored periodically. Further, company as well as displayed on display discharged water shall also be monitored [(TDS, board at the project site near mine office. DO, PH and Total Suspended Solids (TSS)]. The The Ambient Air Quality monitoring results monitored data shall be uploaded on the website of for the period October'2022 to March'2023 the company as well as displayed on a display board for PM2.5, PM10, SO2, NOx and CO are at the project site at a suitable location near the enclosed as under: main gate of the Company in public domain. The Circular J-20012/1/2006-IA.II(M) No. 27.05.2009 issued by Ministry of Environment,



Forest and Climate Change, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

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			26						Octo	and the state of the	Air Quality	induction of the same	g Results		-						
1	Month	DUA F		orth Bound					tern Boun					est Bounda					uth Bound		
1	Unit >	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	(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)	(mg/m3)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	(mg
ı	Oct-22		36.20	16.50	13.20	BDL	25.70	38.70	12.80	10.50	BDL	26.30	34.60	13.40	16.80	BDL	24.50	36.90	17.90	14.20	В
ı		26.30	36.90	10.50	18.50	BDL	25.60	38.70	11.20	16.40	BDL	21.80	35.40	19.80	12.30	BDL	29.70	36.20	14.50	10.50	В
ı	Nov-22	26.50 24.50	41.20 34.50	12.50 11.50	11.20 16,90	BDL BDL	24.50	39.40 39.50	14.30 14.50	9.80	BDL BDL	27.50 22.6	36.50 37.50	13.60 13.20	12.30	BDL	28.40 28.40	37.50 40.50	15.40 16.40	15.20 17.50	В
l	Dec-22		40.20	10.90	12.50	BDL	29.70	41.60	11.50	13.70	BDL	25.60	39.80	13.70	15.30	BDL	27.80	35.70	14.50	14.20	B
l	200.22	25.70	35.40	10.50	12.40	BDL	28.90	36.70	11.40	15.60	BDL	29.50	38.40	15.60	16.70	BDL	23.70	39.40	16.70	19.80	В
١	Jan-23	25.70	38.70	11.20	11.50	BDL	23.80	36.50	12.30	10.70	BDL	29.20	34.30	14.30	12.70	BDL	24.60	37.10	10.90	13.90	В
ı		28.60	34.50	11.50	11.20	BDL	24.50	37.40	19.80	13.40	BDL	26.70	39.50	14.90	12.60	BDL	25.10	33.20	9.50	15.40	В
ı	Feb-23		40.30	11.90	12.60	BDL	28.60	41.50	12.80	13.70	BDL	26.50	43.90	13.50	14.30	BDL	21.50	38.70	12.30	15.20	В
١	Mar-23	27.40	36.50 39.30	9.30	12.50 13.20	BDL BDL	29.30 27.90	39.70 40.50	10.50	13.70	BDL	22.50 25.70	36.10 38.30	11.30 14.10	19.30 12.80	BDL	24.60 26.50	35.60 37.50	12.70 13.50	17.50 13.60	B
	Ividi*23	29.10	37.30	11.30	11.50	BDL	28.50	38.20	12.50	14.70	BDL	26.30	38.10	14.10	15.20	BDL	25.30	34.90	15.30	16.20	В
	Month	Burn 5	1	Khera villa	ge			Mo	radiya vill	age			Lo	dhva Villa	je			TI	hordi Villa	ge	
1	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)	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	(mg
1	Oct-22		35.20	19.60	13.90	BDL	28.50	33.80	16.30	17.40	BDL	26.30	39.70	15.80	10.50	BDL	25.10	35.60	10.90	9.80	В
1		23.50	39.40	16.20	15.20	BDL	23.50	31.80	17.60	18.70	BDL	26.70	40.50	12.50	14.60	BDL	30.10	41.60	13.90	19.50	E
١	Nov-22	-	37.50	14.90	12.40	BDL	22.50	34.60	13.90	15.10	BDL	29.40	38.40	16.20	11.70	BDL	26.20	32.60	17.60	10.50	В
	Dec-22	24.50	36.50 38.50	12.40 15.70	11.40 11.70	BDL '	25.60 23.50	39.40 40.20	15.30 16.20	17.20 16.50	BDL	27.60 25.70	35.60 41.30	17.40 17.30	11.60 15.30	BDL	28.70 28.70	38.40 36.70	11.40 18.50	15.20 17.80	E
	000 00	21.90	38.70	14.80	15.20	BDL	25.70	37.60	15.70	16.70	BDL	28.40	40.20	15.70	15.70	BDL	29.50	39.50	17.40	18.60	В
	Jan-23	28.60	32.90	9.80	13.30	BDL	24.50	41.20	12.50	14.20	BDL	22.90	39.80	13.70	9.50	BDL	21.80	37.60	14.50	13.50	В
		28.50	37.40	14.70	15.70	BDL	26.40	36.50	13.80	18.50	BDL	27.50	38.60	15.80	10.70	BDL	30.10	37.50	16.90	17.40	В
	Feb-23		39.50	16.40	15.20	BDL	25.90	38.30	13.50	16.70	BDL	26.90	38.10	16.30	12.40	BDL	22.80	33.50	12.70	16.50	B
I	Mar-23	26.20 28.50	39.90 38.50	12.20	18.30 17.30	BDL	24.10	36.20	14.30	17.40	BDL	26.10	39.50	16.30	11.40	BDL	29.37	38.50	17.20	19.50	8
	IVId1-25	29.20	38.20	14.30	15.30	BDL BDL	23.40	39.10 33.10	14.20 15.20	15.30 18.20	BDL BDL	27.40 27.50	40.50	15.30 15.30	13.30	BDL	26.30 29.80	39.50 39.10	15.20 13.80	12.90 15.30	B
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ell	commitment of the properties o	ment bely acublic roject dition mge shou sistry bien blishe one to 1 on	hear hear t, wh ns in m in m uld b of in quan	the tum quali the SPM estatio	g tecade vironn e care (Par (Par ,, PM	chnolovithonent, alendaninera	during the logy of	and and was static well and well was to one of the control of the	sco sco ppro & C inc ste s	pe coval collimate thous the size coring base	of of of d	For	orkir oprov orest oint r one a one a ve l eing uideli	ambie s we motern	ent a ll as ideo ideo Ami	e Cha e Cha will will in the ntifie red pient	be donistringe. be conjugative buff as as air	one y of mo fer z dire per quali	ed. nitorone)	ring) loca d and	(continued
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	undertaken in consultation with the State Pollution Control Board.	
iv	Data on ambient air quality should, be regularly submitted to the Ministry of Environment and	200
rais rais rais	Forests including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months. Provisions contained in notification no. B-29016/20/PCI-I dated 18.11.2009 should be followed for monitoring.	

- Four ambient air quality monitoring (core zone as well as in the buffer zone) locations have been identified as directed and are being monitored as per CPCB/SPCB guidelines. Ambient air quality monitoring reports are enclosed as under:
- Last submission was on dated 18.11.2022
 vide letter no. ACL/EMD/F-16/2022/2690.

								An		STATE OF THE PARTY OF	ty Monit 2 to Mar	STREET, MARKET									
										Ambien	t Air Quality	Monitoria	ng Results								
Month				orth Bound			Eastern Boundary					West Boundary					South Boundary				
	Unit >	PM2.5	PM10 (µg/m3)	502	NOx	CO	PM2.5	PM10	502	NOx	CO	PM2.5	PM10	S02	NOx	CO	PM2.5	PM10	502	NOx	CO
	Oct-22	(µg/m3) 29.80	36.20	(µg/m3) 16.50	(µg/m3) 13.20	(mg/m3) BDL	(µg/m3) 25.70	(µg/m3) 38.70	(µg/m3) 12.80	(µg/m3) 10.50	(mg/m3) BDL	(µg/m3) 26.30	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	
W .	OCT-ZZ	26.30	36.90	10.50	18.50	BDL	25.60	38.70	11.20	16.40	BDL	21.80	34.60	13.40	16.80	BDL	24.50	36.90	17.90	14.20	BDL
-	Nov-22	26.50	41.20	12.50	11.20	BDL	24.50	39.40	14.30	9.80	BDL	100000000000000000000000000000000000000	35.40	19.80	12.30	BDL	29.70	36.20	14.50	10.50	BDL
73	IVUV-ZZ	24.50	34.50	11.50	16.90	BDL	27.30	39.50	-			27.50	36.50	13.60	12.30	BDL	28.40	37.50	15.40	15.20	BDL
-	Dec-22			100000000000000000000000000000000000000		-		-	14.50	13.60	BDL	22.6	37.50	13.20	11.90	BDL	28.40	40.50	16.40	17.50	BDL
-	Dec-22	24.90	40.20	10.90	12.50	BDL	29.70	41.60	11.50	13.70	BDL	25.60	39.80	13.70	15.30	BDL	27.80	35.70	14.50	14.20	BDL
	1 22	25.70	35.40	10.50	12.40	BDL	28.90	36.70	11.40	15.60	BDL	29.50	38.40	15.60	16.70	BDL	23.70	39,40	16.70	19.80	BDL
	Jan-23	25.70	38.70	11.20	11.50	BDL	23.80	36.50	12.30	10.70	BDL	29.20	34.30	14.30	12.70	BDL	24.60	37.10	10.90	13.90	BDL
		28.60	34.50	11.50	11.20	BDL	24.50	37.40	19.80	13.40	BDL	26.70	39.50	14.90	12.60	BDL	25.10	33.20	9.50	15.40	BDL
	Feb-23	27.20	40.30	11.90	12.60	BDL	28.60	41.50	12.80	13.70	BDL	26.50	43.90	13.50	14.30	BDL	21.50	38.70	12.30	15.20	BDL
		27.40	36.50	9.30	12.50	BDL	29.30	39.70	10.50	13.70	BDL	22.50	36.10	11.30	19.30	BDL	24.60	35.60	12.70	17.50	BDL
	Mar-23	24.30	39.30	12.30	13.20	BDL	27.90	40.50	14.50	14.20	BDL	25.70	38.30	14.10	12.80	BDL	26.50	37.50	13.50	13.60	BDL
		29.10	37.30	11.30	11.50	BDL	28.50	38.20	12.50	14.70	BDL	26.30	38.10	14.10	15.20	BDL	25.30	34.90	15.30	16.20	BDL
lonth		DIAD E		(hera villa					oradiya vill					dhva Villa			2000		hordi Villa		
	Unit >	PM2.5 (µg/m3)	PM10 (μg/m3)	SO2 (µg/m3)	NOx (µg/m3)	(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	PM2.5	PM10	S02	NOx	CO
	Oct-22	29.80	35.20	19.60	13.90	BDL	28.50	33.80	16.30	17.40	BDL	26.30	39.70	15.80	10.50	(mg/m3) BDL	(µg/m3) 25.10	(µg/m3) 35.60	(µg/m3) 10.90	(µg/m3) 9.80	(mg/m3 BDL
		23.50	39.40	16.20	15.20	BDL	23.50	31.80	17.60	18.70	BDL	26.70	40.50	12.50	14.60	BDL	30.10	41.60	13.90	19.50	BDL
	Nov-22	24.90	37.50	14.90	12.40	BDL	22.50	34.60	13.90	15.10	BDL	29.40	38.40	16.20	11.70	BDL	26.20	32.60	17.60	10.50	BDL
		24.50	36.50	12.40	11.40	BDL	25.60	39.40	15.30	17.20	BDL	27.60	35.60	17.40	11.60	BDL	28.70	38.40	11.40	15.20	BDL
18	Dec-22	26.40	38.50	15.70	11.70	BDL	23.50	40.20	16.20	16.50	BDL	25.70	41.30	17.30	15.30	BDL	28.70	36.70	18.50		BDL
		21.90	38.70	14.80	15.20	BDL	25.70	37.60	15.70	16.70	BDL	28.40	40.20	15.70	15.70	BDL	-	39.50	17.40	17.80	
	Jan-23	28.60	32.90	9.80	13.30	BDL	24.50	41.20	12.50	14.20	BDL	22.90	39.80	13.70			29.50			18.60	BDL
	30(1 2.5	28.50	37.40	14.70	15.70	BDL	26.40	36.50	13.80	18.50		LATITOTICS CO.			9.50	BDL	21.80	37.60	14.50	13.50	BDL
100	Feb-23	26.40	39.50	16.40	15.20	BDL	25.90	38.30	13.50	-	BDL	27.50	38.60	15.80	10.70	BDL	30.10	37.50	16.90	17.40	BDL
	160-23	26.20	39.90	12.20	18.30					16.70	BDL	26.90	38.10	16.30	12.40	BDL	22.80	33.50	12.70	16.50	BDL
	Mar-23	28.50	_			BDL	24.10	36.20	14.30	17.40	BDL	26.10	39.50	16.30	11.40	BDL	29.37	38.50	17.20	19.50	BDL
-	IVIdI-25		38.50	15.30	17.30	BDL	26.20	39.10	14.20	15.30	BDL	27.40	40.50	15.30	13.30	BDL	26.30	39.50	15.20	12.90	BDL
		29.20	38.20	14.30	15.30	BDL	23.40	33.10	15.20	18.20	BDL	27.50	42.30	15.30	13.40	BDL	29.80	39.10	13.80	15.30	BDL

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.

Environment friendly Surface Miner machine will be used for mining. Surface mining is provided with inbuilt facility of water sprinkling to suppress dust generated during mining. Water tankers are plying on all haul roads to suppress the fugitive dust. monitoring results are enclosed as under:

Month	Haulage Road	Nr. Loading Area	Working Pit Area
	SPM (μg/m3)	SPM (µg/m3)	SPM (µg/m3)
Oct-22	1190	1284	1395
Nov-22	1625	1254	1452
Dec-22	1745	1652	1890
Jan-23	1579	1624	1429
Feb-23	1639	1725	2141
Mar-23	1744	1936	2014

Personal working in dusty areas should wear protective respiratory devices and they should also

Dust Masks, Safety Shoes, Safety Goggles & Helmet will be provided to each & every



be provided with adequate training and information on safety and health aspects.

personnel working in the mine area. Periodic Health Checkup will be done for personnel working in the mine area.

 Work area monitoring for air borne dust is carried out regularly on monthly basis, monitoring results are enclosed as under:

		Air Bo	rne Du	st Surve	y - Lodh	va Mine	es (October	2022 - 1	March 202	3)	
	Machine : Surl	ace Miner			Machin	e : Dozer			Machine : I	Loader	
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)
03-Oct-22	14:00 - 22:00	0	0.41	04-Oct-22	14:00 - 22:00	-	0.36	05-Oct-22	14:00 - 22:00		0.39
17-Nov-22	06:00 - 14:00	Cabin	0.43	18-Nov-22	06:00 - 14:00	Cabin	0.38	19-Nov-22	06:00 - 14:00	bir	0.36
20-Dec-22	14:00 - 22:00		0.39	21-Dec-22	14:00 - 22:00	Ca	0.34	22-Dec-22	14:00 - 22:00	Cabin	0.31
05-Jan-23	06:00 - 14:00	Inside	0.42	06-Jan-23	06:00 - 14:00	de	0.38	07-Jan-23	06:00 - 14:00		0.33
	14:00 - 22:00	nsi	0.4	17-Feb-23	14:00 - 22:00	Inside	0.39	18-Feb-23	14:00 - 22:00	Inside	0.35
20-Mar-23	06:00 - 14:00	=	0.44	21-Mar-23	06:00 - 14:00	=	0.39	22-Mar-23	06:00 - 14:00	=	0.35



viii





Daily Tool Box Talk at Workplace

- Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- Occupational health surveillance program of the workers will be undertaken periodically by our Occupational health center.
- A separate environmental management cell with qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- A well established Environmental management Division (EMD) with suitable qualified personal is in place. Head of Environmental Management cell directly report to the Unit Head of the Organization. EMD Organization chart is enclosed as Under:



- The funds earmarked for environmental protection Details of capital and recurring expenditure measures should be kept in separate account and for environmental protection measures are should not be diverted for other purpose. Year wise enclosed as under: expenditure should be reported to the Ministry of Environment, Forest & Climate Change and its Regional Office located at Bhopal. Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year October 2022 to March 2023 Expenditure incurred in Environment Management Plan - Lodhva MINES (Rs. In lakhs) A. Capital Invessment for Environmental Monitoring: *Funds S.No Cost (In Lacs) ****Direct Particulars from other ***People received Donors / Funding to Total Exp. 37.08 Monitoring Equipments through Contribution Donor Communitie Governmen Environment Laboratory 10 Agencies GUJARAT - Kodinar Others (Monitoring Van, DG Sets etc.) 10 Water Resource Mangement & Drinking Water Projects a.Water Resource Devlopment Total (In Lacs INR) 57.08 11.05 0.00 11.05 B . Drinking Water Programme 2.75 3.30 B. Recurring Expenditure for the period of October'2022 to March'2023 6.05 Agriculture Development(Drip irrigation, Farm Forestry & 37.03 191.35 462.33 233.95 Particulars Afforesation) Cost (In Lacs) 28.33 297.00 944.77 1.54 221.84 1 Green belt development & Dust suppression 3.12 4 Krishi Vigyan Kendra (KVK) - Agriculture 1.87 135.34 8.27 Manpower Cost * 13.15 5 Health & Sanitation 12.25 20.52 6 Education Programme 7.75 7.75 House Keeping 1.93 7 Women / Youth Development 21.15 4 Other Env. Protection (Environmental Monitoring) 1.63 8 Skill and Enterprunership Development Programm 38.78 38.83 26.74 104.35 9 Integrated Community Development Programme 81.21 81.21 Environment Awareness * 1.43 10 Co-ordination & Administration Expenses 0.00 Total (In Lacs INR) Capital Expenditure * Expenditures are Common for All the Plants & Mines. 242.17 173.84 221.84 526.66 630.01 1794.52 The project authorities should inform to the Regular six monthly environmental clearance Regional Office located at Bhopal regarding date of compliance reports are being submitted to financial closure and final approval of the project by MoEF&CC. Last submission was on dated the concerned authorities and the date of start of 18.11.2022 vide letter no. ACL/EMD/Fland development work. 16/2022/2690. The Regional Office of this Ministry located at xi Point noted and will be complied. Bhopal shall monitor compliance of the stipulated Full support and co-operation is being conditions. The project authorities should extend extended during the visit of officers from full cooperation to the officer (s) of the Regional Ministry of Environment & Forest, CPCB as Office by furnishing the requisite data / information well as GPCB. / monitoring reports. xii The project proponent shall submit six monthly Regular Half yearly compliance status report reports on the status of compliance of the is being regularly submitted and last stipulated environmental clearance conditions submission was on dated 18.11.2022 vide
 - including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhopal, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and
- letter no. ACL/EMD/F-16/2022/2690.

Pollution Control Board. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad /

xiii

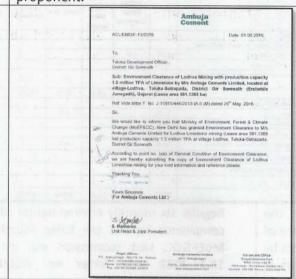
Forests, Bhopal, the respective Zonal Office of central Pollution Control Board and the State

- Complied
- A copy of clearance letter has been sent to



Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

Panchayat, Zila Parisad / Municipal Corporation, Urban Local Body vide our letter nos. ACL/EMD/F -13/2016/580, Dated 01.06.2016.

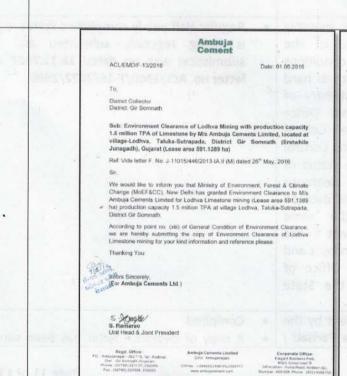




xiv The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.

Complied

 This is in purview of GPCB and we have also informed to GPCB (Ro-Office), District development officer, District Collector and District Industry Center ACL/EMD/F-13/2016/580 dated 01.06.2016.



ACLIEMONF-13/2016 | 55 0 Date: 01.06.2016

To,
Regional Officer.
Gujaral Pollution Control Board
Ops Sist Anne's Church: Station Road
District-Juragadh, Gujarat

Sub: Environment Clearance of Lodhva Mining with production capacity
1.5 million TPA of Limestone by Mis Ambuja Cements Limited, located at
village-Lodhva, Taluka-Sutrapada, District Gir Somnath (Erstwhile
Junagadh), Gujarat (Lesse area 591.1389 ha)

Ref. Vide letter F. No. J-11015/446/2013-IA-II (M) dated 26th May, 2016

Sir,
We would like to inform you that Ministry of Environment, Forest & Climate
Change (NoEFSCC), New Delith has granted Environment Clearance to MisAmbuja Cements Limited for Lodhva Limestone mining Lesse area 591.1389
ha) production capacity 15: million TPA at village Lodivia, Taluka-Sutrapada,
District Gir Somnath.
We are hereby submitting the copy of Environment Clearance of Lodhva
Limestone mining and Newspaper clipping of advertisement about project for
your kind information and reference please

Thanking You

Yours Sincerely.
(For Ambuja Cements Ltd.)

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The environmental statement for each financial year ending 31st March in Form-V as is mandated to

 Environmental statement is being Submitted to concern authority for each financial year

be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also sent to the Regional Office of Ministry of Environment and Forests, Bhopal by e-mail.

and this year submission was on **07.07.2022** vide letter no. ACL/EMD/F-22/2022/2600/60677



xvi The project authorities should advertise at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Environment and Ministry of Forests http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhopal.

- Complied
- Advertisement was published in two local news papers. Copy is pasted as under (a).
- Copy of advertisement has been submitted to MoEF&CC on 01.06.2016 vide letter no. ACL/EMD/F-13/2016/580/78600. Copy is pasted as under (b).





Page 13 of 13