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ACL/EMD/F-16/2020/22 30

03.11.2020

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-11015/273/2007- IA.II (M) dated 12.05.2010

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of (April'2020 to September'2020) of Environmental Clearance No. J-11015/6/2000-IA-II (M) dated 20.06.2002 granted by MoEF 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.

Anand Prakash

Head-Environment

Encl.: As above.

Copy to:

- The Central Pollution Control Board (CPCB), Parivesh Bhawan, Atmajyoti Ashram
 Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara 390023 (Gujarat)
- The Member Secretary, Gujarat Pollution Control Board (GPCB), Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010
- 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

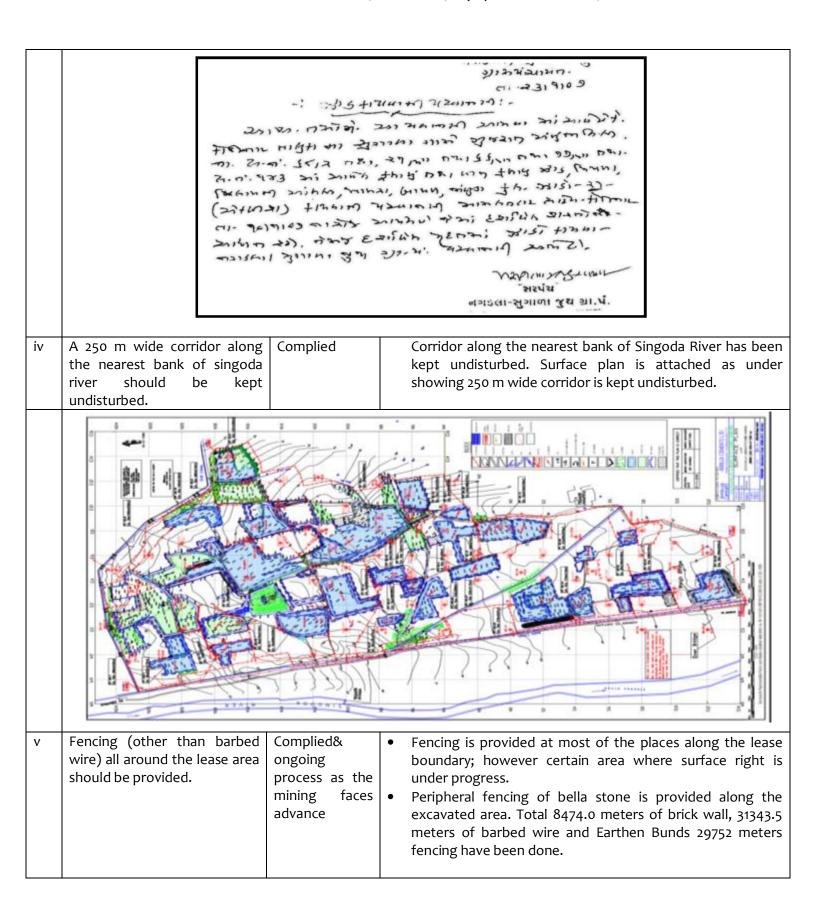
Ministry of Environment & Forests, Regional Office (W), Bhopal Monitoring Report, Part-I

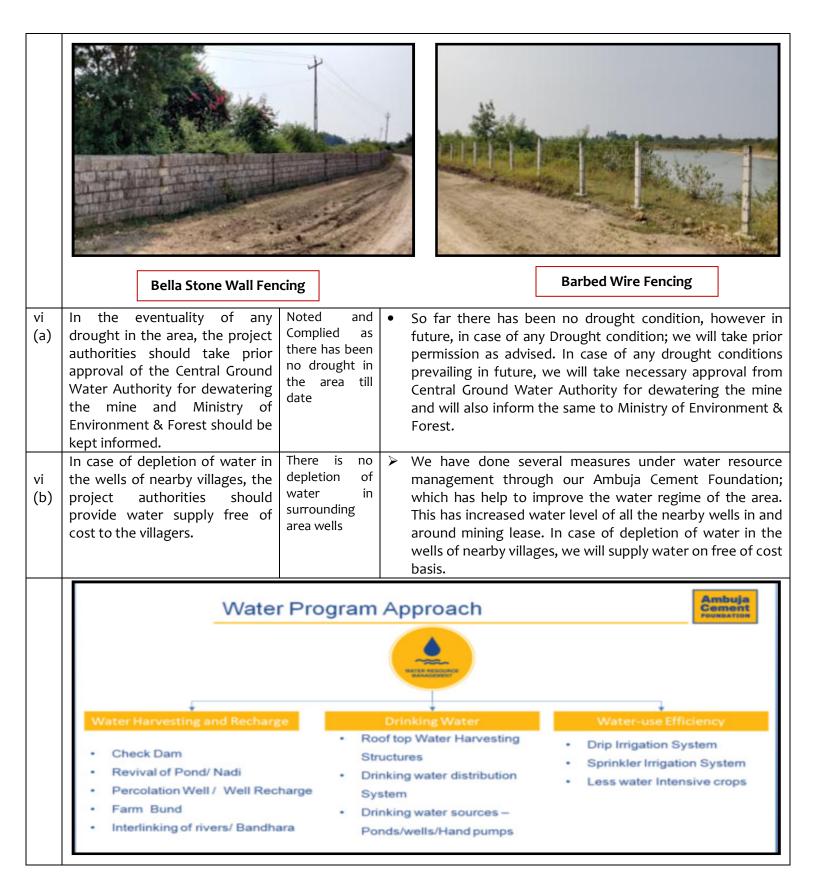
DATA SHEET

01	Project type	Mining
02	Name of the project	Sugala Limestone Mining Project
03	Clearance letter(s) / OM no. and date	J-11015/6/2000 – IA,II (M), dated 20.06.2002
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).	Sh. Anupam Agrawal Unit Head Ambuja Cements Ltd. PO Ambujanagar, Taluka: Kodinar, District: Gir Somnath (Gujarat). Pin.: 362715, Tel: 02795-237011, Fax: 02795 - 220328/232032
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	Sh. Ganpat RAM, Manager (Mines), Ambuja Cements Ltd PO :Ambujanagar , Taluka - Kodinar District : Gir Somnath (Gujarat) Pin. : 362715 Tel: 02795-237217, Fax: 02795 - 220328/232032
06	Salient features a) Present Status of the project	Ambuja Cements Ltd. has cement manufacturing plant at
	a) Tresent states of the project	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	 NNE direction with respect to cement plant. The rated capacity of the limestone is 1.29 MTPA. * Mining operations do not involve drilling and blasting for material rising. Limestone excavation being carried out by Surface Miner & Ripper Dozer * Regular monitoring of environmental parameters is carried out as per the norms evolved by MoEF and IBM. * Preventive maintenance of deployed HEMM being undertaken on regular basis. * Dust suppression by water sprinkling on haul roads and in working area. * Afforestation / Green belt development along haul road near office building and lease periphery is being implemented. * Mined-out areas would be converted to plantation / agri-farm and water reservoirs as envisaged in the mining plan partial reclaiming already done.
07	Break up of the project area.	NNE direction with respect to cement plant. The rated capacity of the limestone is 1.29 MTPA. * Mining operations do not involve drilling and blasting for material rising. Limestone excavation being carried out by Surface Miner & Ripper Dozer * Regular monitoring of environmental parameters is carried out as per the norms evolved by MoEF and IBM. * Preventive maintenance of deployed HEMM being undertaken on regular basis. * Dust suppression by water sprinkling on haul roads and in working area. * Afforestation / Green belt development along haul road near office building and lease periphery is being implemented. * Mined-out areas would be converted to plantation / agri-farm and water reservoirs as envisaged in the mining plan partial reclaiming already done. * Socio-economic improvement measures are being undertaken in the project buffer zone as envisaged.
07		 NNE direction with respect to cement plant. The rated capacity of the limestone is 1.29 MTPA. * Mining operations do not involve drilling and blasting for material rising. Limestone excavation being carried out by Surface Miner & Ripper Dozer * Regular monitoring of environmental parameters is carried out as per the norms evolved by MoEF and IBM. * Preventive maintenance of deployed HEMM being undertaken on regular basis. * Dust suppression by water sprinkling on haul roads and in working area. * Afforestation / Green belt development along haul road near office building and lease periphery is being implemented. * Mined-out areas would be converted to plantation / agri-farm and water reservoirs as envisaged in the mining plan partial reclaiming already done. * Socio-economic improvement measures are being undertaken in

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. b) Allocation made for environmental management plans with item wise and year wise break-up. 	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. Rs. 9.77 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 nd 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 12.05.2020 vide letter No. ACL/EMD/F-16/2020/2111/87302

S.N	Condition	Compliance	Details
0.	Condition	Status	Details
_	pecific Conditions	Status	
i	Mining activities including transportation of material from the mine site should be carried out only during day time (6 a.m. to 6 p.m.)	Complied	 Mining activities including transportation of material from the mine site is being carried out only during day time (6 a.m. to 6 p.m.). No mining is being done after 6 p.m.
ii	Company should contribute for development of fodder plots in the nearby reserve forests areas.	Complied	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 dated 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 dated 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55926.
	Ref: Your lett This has refers (Nine lacs two purpose. The on 26.09.200 reference and Thanking you, Yours faithfully For Gujarat (S C PARIK) General Mai	ir of Forest, lon), i.). Ing of funds toward a. Iter No.K/S/pvu/18 ence to your above entry six thousand amount has been am	rds development of Fodder Plot at Sabdharvidi , 9-91/ 2006-07 dated 22.05.2006. The cited letter advising us to deposit Rs.926857/- The delight hundred fifty seven only) for the said in deposited in State Bank of Saurastra , Kodinar riginal copy of the challan is enclosed for your Ltd.
iii	Prior permission from the Forest Department / concerned authorities should be taken for cutting of trees for any mining activity in the lease area.	Complied	• No tree has been cut for any mining activity till date. Although permission has been obtained from Mamlatdar, Kodinar for cutting of trees in mine lease area. Copy of permission granted by Mamlatdarhas been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no. ACL/EMD/F-16/2010 /55926.









- vii Construction of check dam(s) in the shingoda river and also release of mine water discharge should be undertaken with prior approval of Chief Wild Life Warden (CWLW), Government of Gujarat to ensure undisturbed movement of lions through the Shingoda river bed, which is an established migratory route for lions and other animals.
- Complied related to construction of check dams (06 Nos.).
- No mine water discharge.
- CWCL permission obtained

- Mines is Zero Water discharge.
- In addition rain water is being stored in mined out pit area developed as a water reservoir. So far we have constructed of nos. of Check dams on river Shingoda and on no. of tidal regulator at Muldwarka. All the check dams constructed on Shingoda River are located in downstream area from mine lease boundary on Shingoda River. All the check dams have been constructed under partnership with Govt. of Gujarat. Permission granted by Govt. of Gujarat, has been already submitted to MoEF vide our submission on 25.12.2010 vide letter no. ACL/EMD/F-16/2010/55926. List of Check dams constructed are enclosed as under:

Details of Check dams across Shingoda River:

Sr. No.	Name of Village	Type of Structure	Year of Construction	Total Cost Rs. In Lacs	Storage Capacity in MCFT
1	Ronaj	Construction of Check dam	2002	35.17	6.31
2	Dudana (Fruit Nursery)	Check dam height raising	2001	7.1	3.51
3	Chhachhar	Construction of Check dam	2004	12.06	6.2
4	Dudana	Construction of Check dam	2004	47.62	5-25
5	Kodinar (Kubeshwar)	Construction of Check dam	2004	23.1	4-17
6	Muldwarka	Construction of Tidal Regulator	2009	79.58	57.64
7	Ronaj (Bhekheshwar Dam)	Dam, Under construction	Start in 2009	840	35.0





Viii	Top so	il should	be pro	perly sta	acked					
	at ea	oil should rmarked	dump	site(s)	with					
	adequate measures and should be									
	used	ation	and							
	rehabi	litation o	f mined	out area	as.					

Complied

- All the mining activities in said period are restricted within already broken area and top soil as and when removed is directly being utilized for reclamation and rehabilitation of mined out area.
- So far **36.9325** ha area has been reclaimed and rehabilated and this will be ongoing process.

		Excavated Area	Reclamatio	on Work (In Ha)	
S. No.	Year	(in Ha)	Agri Farm	Water Reservoir	
1	2002 - 03	10	0	0	
2	2003 - 04	28.4	0	0	
3	2004 - 05	4.1	0	0	
4	2005 - 06	13.82	0	0	
5	2006 - 07	6.93	0	0	
6	2007 - 08	2.97	1	0	
7	2008 - 09	11.06	1.27	0	
8	2009 - 10	14.28	2.79	0	
9	2010 - 11	4.0616	7.0261	0	
10	2011 - 12	19.5677	1.4245	0	
11	2012 - 13	11.6447	3.095	0	
12	2013 - 14	7.6909	3-3944	0	
13	2014 - 15	7.8389	5.9361	0	
14	2015 - 16	15.1005	2.2633	0	
15	2016 - 17	9.8151	3.1481	13.0982	
16	2017 - 18	13.6487	1.4129	0	
17	2018 - 19	8.3415	0.1148	0	
18	2019-20	1.2101	4.0573	0	
·	Total	190.4797	36.9325	13.0982	



ix Catch dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows soil and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained. Garland drain (Size, gradient & length) and sump capacity should be designed keeping 50 % safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling

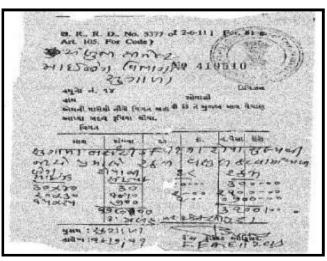
of silt material.

It is not applicable in our case as we don't have any waste dump.

Complied

 Since the deposit is outcropped hence there is no over burden and interbands from where waste is being generated. Therefore this clause is not applicable in our case.

- A green belt of adequate width all around the ML area should be developed by planting the native plant species in consultation with local DFO/Agriculture Department. At least 2000 plant species / ha. Should be planted. Plantation should also be raised along the roads, canal, dump sites etc.
- Complied and ongoing process
- We have developed green belt along lease boundary and maintaining the density 2000 sapling per hectare with native type of species, with consultation of local DFO.
- We are in the process of obtaining surface right of remaining lease boundary area to develop further green belt.
- Saplings are being provided by local forest department for plantation. Invoice of the same is attached as under:



Interactions are being carried out with Agriculture University, Forest department & KVK for plantation/afforestation. Even forest dept. is using sapling from our nursery for tree plantation. Details of mines reclamation and plantation are enclosed as under: **SUGALA MINES Greenbelt & Plantation Details**



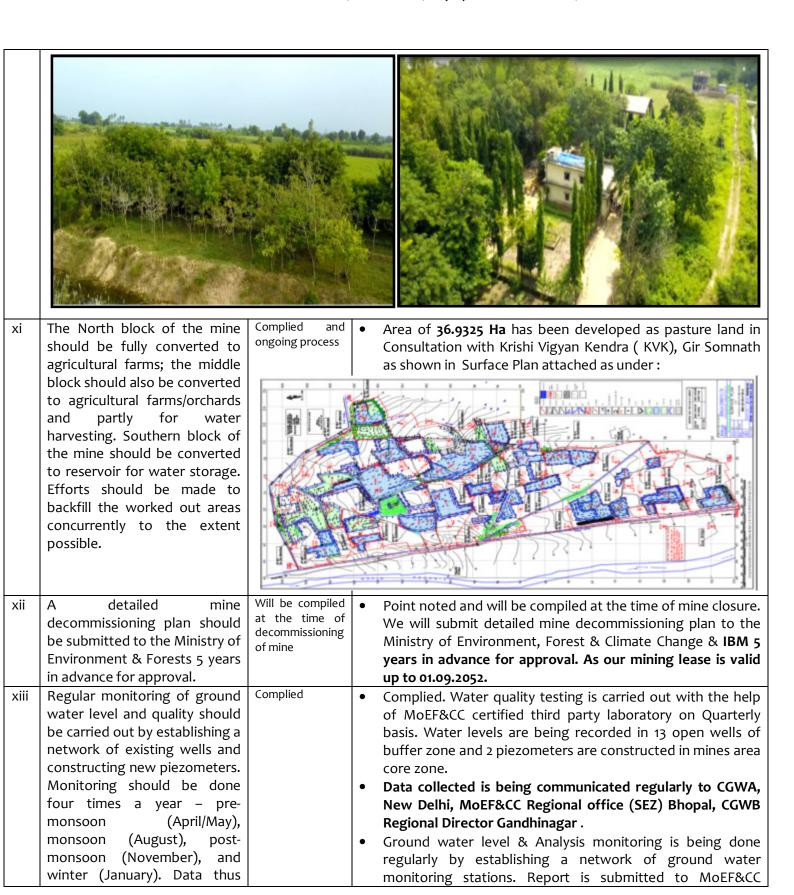




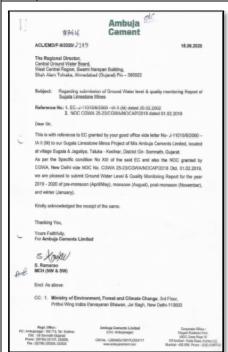








collected should be sent at regular 'intervals to MoEF & the Central Ground Water Authority. regional office Bhopal, CGWB , CGWA and GPCB on yearly basis. Last submitted on 18.06.2020 vide letter no ACL/EMD/F-9/2020/2149/87414.



	January"-2020			Ground \	Water Quality	/ Report and	Water Level	of Sugala Lim	estone Mines					
S.N.	Ref.No.	IS 10500	:2012 (S.R)				Mal	 Water				Piezometers		
		Desirable	Permissible				IVE	rvaler				LIEZVIIIEZEI		
	Source			W2	W3	W 5	W6	W7	W9	W10	W11	PIEZO NO-2		
	Village			SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA		
	Taluka			KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR		
	District			GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH		
1	Color Hazen Units	5	15	P.Nil	P. Nil	P. Nil	P. Nil	P. Nil	P. Nil	P.Nil	P. Nil	P. Nil		
7	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreea b le		
1	Turbidity NTU	1	5	3.67	2.38	1.82	1,69	4.73	3.7	1.20	1.76	0.24		
4	Dissolved Solids mg/l	500	2000	656	684	57 2	602	680	622	526	606	404		
	Conductivity - uslcm			1025	1068	894	941	1063	972	822	947	631		
6	рH	6.5 to 8.5	No Relaxation	7.62	7.55	7.68	7.66	7.57	7.52	7.52	7.46	7.56		
1	Total Hardness (as CaCO3) mg/l	200	600	448	416	388	412	424	412	364	412	204		
8	Calcium (as Ca) mg/l	75	200	90	83	78	82	85	82	73	82	41		
9	Magnessium (as Mg) mg/l	30	100	54	51	47	50	51	50	4 5	50	25		
10	Chlorides (as CI) mg/l	250	1000	72	96	64	94	88	64	48	64	48		
11	Sulphates (as SO4) mg/l	200	400	72	67	63	66	68	66	59	66	33		
12	Nitrates (as NO3) mg/l	45	No Relaxation	5.1	34.2	3.2	5.7	34.1	25.2	8.5	10.2	4.18		
13	Fluorides (as F) mg/l	1	1.5	0.42	1.04	1.56	1.47	1.23	1.59	1.22	0.95	0.26		
14	Alkalinity (as CaCO3) mg/l	200	600	296	320	276	280	284	296	240	288	272		
	Water Level			10.2	10.7	10.9	6.7	6.2	10.8	8.4	5.5	14.2		
	Opinion for potability is given consi	dering above 13	Test Parameters	only.										

Digital processing of the entire lease area using remote sensing technique carried should be regularly once in three years for monitoring land use pattern and physiographic of the area and report submitted to the Ministry and its Regional Office at Bhopal.

xiv

Complied

We carry out digital processing of the entire lease area once in every three year. Year 2019 report has been submitted to MoEFCC, New Delhi and it's Regional Office Bhopal vide letter No. ACL/EMD/F-9/2020/2092 dtd. 02.03.2020.



	be kept under control and regularly monitored.		Detail of P.U.C ce center (Approved under:	ertificate by C	Omkar driving s				
			POLLUT	FION UNDER CONTRO Authorised By. VERA Transport Commissionera	L CERTIFICATE BOOK				
	S.No Machinery	Nos. (in use)	Confidence St. No.: C.1042/002100001200	Transport Commissionera	TEST RESULT PASS VALID TILL: 26/Nev/20:				
	Heavy Earth Moving Macl	ninery	Superinder No. G332TGGE Owner Name AMBUSA CEMENTE LIMITED Figure No. Vol EF12303		On titled that the vehicle conform prescribed under rule 115(2) or				
	a) Volvo Loader (4.6 m3)	01	Fegins No. VDIET13003 Glean of Vedesia. Goods Certifer Mari Indian a MARI Indian a MARI Indian alimited		FUEL (1 glat All completion Committee) (1 committee) (1 committee) (1 committee)	1.02104			
	b) TATA tipper (3118 TC)	25	venice category: HEAVY GOODS VEHI Oxto of Hegistration: 11/069/3017	-LE					
	c) Surface Miner – SM 2200	01	Emission Norms: Distance: La TAGE 17 Find: Distance: Dis	6					
	d) Ripper Dozer D275A	01	Manufacturer Name PUC Equipment Manufacturer Model Sales-15 Name	(%	(he				
	KOMATSU		POC Egoloment Serial SE74						
	e) L580 Liebherr Loader	01	Fee of Losters: 14:51:10 Fee Charged: 16:544,0 In a case of any complain Florance units to Transport	Auto Emission Testing Centre Googloost Georgeoost Eating Centre Name: SOMNA Centre Address: 3 S PARMAR:	TH PUC	D. W. W. Str. W			
	f) Surface Miner – SM 2100	01	Campillana Goldan	Test Conducted By: BAYGINHE RESARDHAI GOLIL	SHA:				
		+	TCST 1 0-8.5 TCST 2 6-0.0 1EST 3 6-0.0 AVG 641.00007	MAX RPM 2000.0 2120.0 2000.0	K VALUE OIL TEMP 1.0 02.0 1.11 82.0 1.11 82.0 1.07034 02.0				
	g) Mahindra – 3118 TC	25	AVG 641.66067	2090.0	1.07334 82.0				
B. Ge	eneral Conditions	Т =	T						
1	No change in mining technology and scope of working should be made without prior approval of		There is no chaworking.	nge in minin	g technology	and scope of			
	the Ministry of Environment and								
	Forests.								
ii	No change in the calendar plan	Complied	 There is no change 	e in the calend	dar plan. As per	approval from			
	including excavation, quantum		MoEF&CC we have	⁄e annual mini	ng capacity of 1.	29 MTPA			
	limestone and marl, waste / OB		 Also the past ye 	ar wise actu	al production v	v/s sanctioned			
	dumps should be made.		capacity is enclose	d herewith.					
		Lime	estone Production D	etaile					
	S. No.	Year	EC Sanctioned Actual	Limestone	Actual Marl				
	1	2002 - 03		tion (TPA) P 3251	roduction (TPA) o				
	2	2003 - 04		39953	О				
	3	2004 - 05		39818	0				
	5	2005 - 06		39777 39881	0				
	6	2007 - 08		39499	0				
	7	2008 - 09	1290000 12	81161	0				
	8	2009 - 10		39843	0				
	9	2010 - 11 2011 - 12		77822 31742	0				
	11	2012 - 13		57075	0				
	12	2013 - 14		18109	0				
	13 14	2014 - 15 2015 - 16		81714 39577	0				
	15	2015 - 10		38637	0				
	16	2017 - 18		15886	0				
	17	2018 - 19		77707	0				
	18	2019 - 20 2020 - 21		80391	0				
	¹⁹ (Ti	ll September)	1290000 57	3792	0				
iii	Five ambient air quality monitoring		• Five ambient air		_				
	stations should be established in		established in co	ore & buffe	r zone. Ambie	nt air quality			
	the core zone as well as buffer zone		monitoring of cor	e zone and bi	ıffer zone is bei	ng done everv			
	for SPM, RSPM, SO2, NOx and CO								
	monitoring. Location of the		month. Monitoring reports are submitted on monthly basis To Regional Office, Junagadh of Gujarat State Pollution						
1	ambient air quality stations should		To Regional Offi Control Board.	ce, Junagadh	n of Gujarat S	tate Pollution			
	i allibletit ali quality stations should								

	data, topographical features and environmentally and ecologically sensitive targets in consultations with the State Pollution Control Board.		•	The location of the monitoring stations is finalized in consultation with GPCB and renowned consultant Sh. B Padmanabh Murthy, Professor of JNU and former Director of IMD Met-Dept Ambient air quality monitoring results for the period April'2020 to Sep'2020 is enclosed as under.
iv	Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office at Bhopal and the State Pollution control Board/ Central Pollution Control Board once in six months.	Complied	•	Half yearly ambient air quality monitoring report is being regularly submitted to MoEF&CC, our last submission was on 12.05.2020 vide letter no. ACL/EMD/F-16/2020/2111/87302 Ambient air quality monitoring results for the period April'2020 to September'2020 is enclosed as under.

					Ambie	nt Air Q	uality M	lonitori	ng Resu	lts					
						ril'2020			_						
Month			orking Pl				Sugala Village				Jagatiya Village				
	PM2.5	PM10	502	NOx	CO	PM2.5	PM10	502	NOx	CO	PM2.5	PM10	502	NOx	CO
Unit >	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Apr-20										ring not		ıctea			
May-20	32.20	55.30	12.50	16.80	BDL	25.50	48.87	9.80	12.20	BDL	26.30	44.30	10.20	13.50	BDL
IVIdy-20	30.50	56.30	13.10	17.30	BDL	26.50	47.30	10.20	13.30	BDL	27.30	45.50	9.90	14.20	BDL
Jun-20	34.27	52.37	11.30	15.50	BDL	28.26	50.23	10.40	13.30	BDL	25.37	42.37	11.20	12.39	BDL
Juli-20	28.65	41.25	12.80	17.30	BDL	20.59	40.18	12.00	12.90	BDL	22.56	38.59	10.80	13.85	BDL
Jul-20	29.65	50.26	10.50	14.70	BDL	28.49	49.68	11.30	15.30	BDL	26.59	47.51	12.10	14.28	BDL
Jul-20	22.64	39.42	11.70	15.50	BDL	23.45	38.65	12.70	14.90	BDL	20.48	40.74	11.80	15.20	BDL
Aug-20	22.68	41.25	12.00	13.50	BDL	25.12	40.85	10.50	14.10	BDL	23.45	38.26	11.40	13.62	BDL
Aug-20	25.60	36.80	10.60	14.60	BDL	21.80	37.20	11.60	13.20	BDL	22.60	39.20	12.60	14.30	BDL
Sep-20	24.56	43.49	11.90	14.80	BDL	28.59	39.58	11.60	15.20	BDL	25.56	44.26	10.90	14.26	BDL
3ch-50	27.60	39.60	11.20	15.50	BDL	22.60	36.20	12.20	14.60	BDL	25.20	40.20	11.80	13.90	BDL
Month			achhar V			Nagadala Village					Kansariya Village				
	PM2.5	PM10	502	NOx	CO	PM2.5	PM10	502	NOx	CO	PM 2.5	PM 10	502	NOx	CO
Unit >	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Apr-20				Due	e to CO	VID-19	LOCK	nwor,	vionito	ring not	conal	ictea			
May-20	25.50	45.50	9.90	11.50	BDL	24.40	42.50	9.50	12.50	BDL	26.30	46.30	10.20	13.30	BDL
IVIAY-20	24.40	44.20	9.80	12.20	BDL	23.30	43.30	9.20	13.30	BDL	25.50	45.50	10.50	14.40	BDL
Jun-20	24.39	43.29	10.30	10.30	BDL	22.19	40.28	10.20	11.30	BDL	25.37	48.26	11.40	15.48	BDL
Juli-20	23.48	40.58	11.70	14.90	BDL	21.59	37.48	10.80	13.00	BDL	25.97	39.68	12.70	13.68	BDL
Jul-20	25.46	46.32	13.30	12.00	BDL	23.69	51.25	11.70	13.30	BDL	24.89	49.65	12.10	14.06	BDL
JUI-20	25.63	42.69	12.90	15.40	BDL	23.85	39.46	11.70	14.70	BDL	22.96	36.48	11.40	14.20	BDL
Aug-20	22.89	37.25	12.30	14.50	BDL	21.04	39.41	10.40	15.00	BDL	22.96	41.96	11.40	13.48	BDL
Aug-ZV	23.60	38.20	11.60	13.60	BDL	20.85	36.40	12.80	15.60	BDL	24.60	37.90	12.30	15.40	BDL
Sep-20	21.59	39.59	11.10	15.30	BDL	19.89	42.57	12.20	15.80	BDL	22.71	40.99	10.90	14.42	BDL
36h-50	24.60	41.20	10.90	12.90	BDL	22.90	39.50	11.70	14.80	BDL	27.50	39.40	10.90	16.10	BDL

Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations, loading and transportations of minerals etc.

Drilling and blasting is not applicable in our case.

All other conditions

complied

 Drilling and blasting is not applicable in our cases as we are using environment friendly Surface Miner machine. On all haul roads regular water sprinkling is being done by water tankers. Monitoring results of Air borne dust survey is enclosed below .All transportation vehicles are equipped with multi cap to transport material in covered condition





	Air Borne Dust Survey (April'2020 to September'2020)													
N	Machine : Surf	ace Mine	ſ		Machine	:Dozer			Machine	Loader				
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)			
April'20		Due to COVID-19 Lockdown, Monitoring not conducted												
5-May-20	12:00-18:00		0.32	6-May-20	12:00-18:00		0.28	7-May-20	12:00-18:00		0.31			
8-Jun-20	06:00-12:00	<u>•</u> .⊑	0.27	9-Jun-20	06:00-12:00	<u>•</u> <u>c</u>	0.31	10-May-20	06:00-12:00	<u>o</u> <u>c</u>	0.34			
13-Jul-20	12:00-18:00	nside Cabin	0.26	14-Jul-20	12:00-18:00	Inside Cabin	0.29	15-Jul-20	12:00-18:00	Inside	0.35			
6-Aug-20	06:00-12:00	ت ن	0.29	7-Aug-20	06:00-12:00	<u>r</u> 0	0.32	8-Aug-20	06:00-12:00	_ _ 0	0.31			
14-Sep-20	12:00-18:00		0.27	15-Sep-20	12:00-18:00		0.29	16-Sep-20	12:00-18:00		0.32			

vi Adequate measures should be taken for control of noise levels below 85 dB (A) in the work environment.

Complied

 All the machines are emitting noise well below 85 dB(A). We have deployed loader from LIEBHERR Germany which is the lowest noise generating machine in the world. Result of Ambient noise monitoring as well as HEMM noise monitoring report is attached below:

	Ambient Noise Level Monitoring (April'2020 to September'2020)															
		Noise Levels in dB(A)														
Month	Near Surface Miner		Haul road		Mines Office		Sugala Village		Chidivav Village							
	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)						
Apr-20			Due to	COVID-19 L	ockdown, l	Monitoring r	ot condu	cted								
May-20	67	64	66	63	63	54	47	44	49	43						
Jun-20	69	63	65	63	64	55	56	46	50	44						
Jul-20	67	64	65	64	64	60	59	46	52	46						
Aug-20	Aug-20 73 66		64	61	66	60	60	49	53	47						
Sep-20	70	67	66	60	65	61	63	52	54	46						

Noise Level of HEMM distance (April'2020 to September'2020)											
Machine		Surface Min	er		Loader		Dozer				
Month	Conditions	Noise Lev	els (dB) Leq	Conditions	Noise Levels (dB) Leq		Conditions	Noise Levels (dB) Leq			
		At 5m.	At 10m.		At 5m.	At 10m.	Conditions	At 5m.	At 10m.		
Apr-20	Due to COVID-19 Lockdown, Monitoring not conducted										
May-20	D -	73	68	5	70	69	mining	73	68		
Jun-20	While dozing the material	72	58	While loading to tipper	74	69		69	63		
Jul-20		70	67		73	70	E	73	70		
Aug-20		75	73		74	71	While	73	71		
Sep-20	S +	75	70		73	70		73	71		

Personnel working in dusty areas should wear protective respiratory device and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contraction due to exposures of dust and corrective measures, if needed.

Complied

- All personnel working in mines are provided with PPE's i.e. dust masks, safety shoes, safety goggle, Safety Reflective Jacket & Helmet. Occupational health surveillance program of all the workers (Including Third party workmen) are being undertaken every year by our Occupational Health Centre through our AMH Ambuja Multi Hospital. There is no case of any contraction due to exposure of dust in any workmen.
- They are also provided adequate training and information on safety and health aspects.





viii The fund earmarked for Environmental protection measures should be kept in separate account and not diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment & Forests.

Complied

• We have separate cost centre for environmental expanses and details of capital and recurring expenditure for environmental protection measures are attached below. Expenses incurred against Environment protection for April 2020 to September 2020 is Rs. 42.28 Lakhs.

Expenditure incurred in Environment Management Plan - SUGALA			Ambuja Cement Foundation - Ambujanagar								
A. Capital Invesstment for Environmental Monitoring :			├ ─	Details for programme wise expenditure for the year April 2020 to Sept 2020							
S. No	Particulars	, and the second				*Funds	** Funds from other		****Direct		
1	Monitoring Equipments	37.08	Sr.No	Programme	ACF - ACL	received through	Donors /	***People's Contribution	Funding to	Total Exp.	
2	Environment Laboratory	10					Government	Donor Agencies		Communities	/Da la lalaha)
3	Others (Monitoring Van, DG Sets etc.	10		GUJARAT - Kodinar				Agencies			(Rs. In lakhs)
,			1	Water Resource Mangement & Drinking Water Projects							
R R	Total (In Lacs INR) 57.08 B. Recurring Expenditure for the period of April'2020 to September'2020			a.Water Resource Devlopment		2.16	1.92				4.08
S. No				B .Drinking Water Program		0.87 4.83	1.63 3.65		35.53	130.57 49.01	132.97 93.02
1	Green belt development & Dust suppression				Agriculture Development(Farm Forestry & Afforesation) BCI			85.69	76.54	112.44	282.78
2	Manpower Cost *		4	Krishi Vigyan Kendra (KVK)	0.66	57.81				58.47	
	· · · · · · · · · · · · · · · · · · ·	, ,			Health & Sanitation				2.95		6.05
3	House Keeping	1.07	6	Lducation Programme Women / Youth Developmen	1.62	-				0.00 1.62	
4	Other Env. Protection (Environmental Monitoring)	1.14	7	Skill and Enterprunership Development Program		25.68	8.50		5.86		40.04
5	Environment Awareness *	0.20 8 1			Integrated Community Development Programme						11.22
	Total (in Lacs INR)	42.28	9	Co-ordination & Administrat Capital Expenditure	ion Expenses	44.03	-				44.03 0.00
*	Expenditures are Common for All the Plants & M	lines.	10	TOTAL		102.23	73.51	85.69	120.88	291.97	674.28
x xi xii	The Regional Office of this lat Bhopal shall monitor corstipulated Environmental sproject authority should send EMP report and mining playextend full co-operation to Regional Office by furnishind data/information/monitoring. The project authority should Regional Office located at B to the Ministry of Environmental of the project by authorities and the date of development work. The State Pollution Controdisplay a copy of the clearar Regional Office, District Induate The Project authorities should least in two Local newscirculated around the project shall be in the vernacular least in the vernacular least in the clearance letter the project has be environmental clearance and clearance letter is available Pollution Control Board and seen at web site of the Environment & http://envfor.nic.in.and a ministry at Bhopal.	Noted and will be complied as & when required. Complied Complied	extended Environme Point note This is a (extended of mine clo Office loca Environme GPCB & D Advertisen attached b to MoE	during nt & Fo d. This i running till o1/cosure wated at nt & Fo istrict I	trict Industrial had complied the condition. nt was published in two local news papers a ow. Copy of advertisement has been submitte						

