Ambuja Cement

REGD. A/D

ACL/EMD/F-16/2017/ 723

30.05.2017

The Director (s),

Ministry of Environment & Forest (MoEF), 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-11015/6/2000-IA-II (M) dated 20.06.2002

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of October'16 to March'17) 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). We are also enclosing here with CD containing soft copy of the same.

In case of further clarification/information require, we shall be please to provide the same.

Thanking you,

Yours Faithfully,

For Ambuja Cements Ltd.

Dr. Anand K. Rai Head-Environment

Encl.: As above.

Copy to:

1) Central Pollution Control Board Privesh Bhavan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023 (Gujarat)

Regd. Office:

PO: Ambujanagar - 362 715, Tal: Kodinar, Dist.: Gir Somnath (Gujarat) Phone: (02795) 221137, 232365,

Fax: (02795) 220328, 232032

Ambuja Cements Limited

(Unit : Ambujanagar)

CIN No.: L26942GJ1981PLC004717. www.ambujacement.com Corporate Office:

Elegant Business Park, MIDC Gross road 'B' Off Andheri - Kurla Road, Andheri (E), Mumbai - 400 059, Phone : (022) 4066700

- 2) Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10-A,Gandhinagar-382010
- Regional Officer
 Gujarat Pollution Control Board,
 Opp. Saint Anne's Church Station Road,
 Junagadh.

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

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

DATA SHEET

Date: 30.05.2017

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

: 20°52' 45" – 20° 54' 45" c) Latitude

: 70° 45' 30" - 70° 46' 45" d) Longitude

05 Address for correspondence

a) Address of concerned Project Chief

Engineer (with pin code & telephone / :

telex / fax numbers).

Sh. Deepak Dhurde,

Manager (Mines),

Ambuja Cements Ltd

PO: Ambujanagar, Taluka - Kodinar District: Gir Somnath (Gujarat)

Pin.: 362715 Tel: 02795-237217

Fax: 02795 - 220328/232032

b) Address of Executive Project Engineer:

/ Manager (with pincode / fax

numbers.

Sh. Deepak Dhurde,

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) 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
- 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 Break up of the project area.
 - a) Submergence area (forest & non-forest)

Not applicable

b) 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 / artisan.

: There are no houses in the core zone area, hence not applicable.

a) SC, ST / Adivasis : Not applicable

b) Others : Not applicable

09 Financial details

 a) Project cost as originally planned and : subsequent revised estimates and the year of price reference. 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.

 Allocation made for environmental management plans with item wise and year wise break-up.

Rs. 7.51 Cr.

c) Benefit cost ratio / Internal rate of return and the year of assessment.

No separate assessment made, as it isa 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.

Actual expenditure incurred on the environmental management plans so far.

Rs. 7.11 Crores April-September' 08 Rs. 3.08 Crore Oct ober'08-March' 09 Rs. 0.07 Crore April' 09-September'09 Rs. 0.17 Crore October' 09-March'10 Rs. 0.30 Crore April' 10-September'10 Rs. 0.30 Crore October'10-March'11 Rs. 0.39 Crore April' 11-September'11 Rs. 0.26 Crore October' 11-March'12 Rs. 0.31 Crore April' 12- September'12 Rs. 0.19 Crore October' 12-March'13 Rs. 0.22 Crore April' 13-September'13 Rs. 0.25 Crore October' 13-March'14 Rs. 0.23 Crore April' 14-September'14 Rs. 0.26 Crore Oct ober'14-March'15 Rs. 0.25 Crore April' 15-September'15 Rs. 0.22 Crore Oct ober'15-March'16 Rs. 0.35 Crore April'16- September'16 Rs. 0.26 Crore October'16- March'17 Rs. 0.33 Crore

Total = Rs. 7.51 Crore

10 Forest land requirement.

a) The status of approval for diversion of: The project area does not comprise of forest land for non-forestry use

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: 2nd November 2002 planned)

b)Date of completion (Actual and / or planned).

: Continued

13 Reasons for the delay if the project is yet: Not applicable.

to start.

14

15

Dates of site visits

a) The dates on which the project was monitored by the Regional Office on

previous occasions, if any.

: 12.10.10 to 13.10.10 by Dr. A. Mehrotra

Regional Office, Bhopal

b) Date of site visit for this monitoring: 17.08.2016

report

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 s

ite visits).

: Half yearly compliance status report is being regularly submitted and last submission was on 28.11.2016 vide

letter no.ACL/EMD/F-16/2016.

S No.	Condition		Compliance Status
A. Spe	cific Conditions		·
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.).	•	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.	•	ACL jointly with Forest Dept have developed 9.0 ha. of fodder plot at Sabdharvidi, Jamvala. Photographs with 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. Same is attached as Annexure I
iii	Prior permission from the Forest Department / concerned authorities should be taken for cutting of trees for any mining activity in the lease area.	•	Permission has been obtained from Mamlatdar, Kodinar for cutting of trees in mine lease area. Copy of permission granted by Mamlatdar has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010 /55926. Same is attached as Annexure II
iv	A 250 m wide corridor along the nearest bank of singoda river should be kept undisturbed.		Point noted and being Complied. Corridor along the nearest bank of Singoda River has been kept undisturbed. Surface plan is attached as Annexure III showing 250m wide corridor is kept undisturbed.
V	Fencing (other than barbed wire) all around the lease area should be provided.	•	Peripheral fencing of bella stone is provided along the excavated area. Total 5324 meters of brick wall and 18380 meters of barbed wire fencing have been done till March'17
vi (a)	In the eventuality of any drought in the area, the project authorities should take prior approval of the Central Ground Water Authority for dewatering the mine and Ministry of Environment & Forest should be kept informed.	•	In case of any drought conditions prevailing in future, we will take necessary approval from Central Ground Water Authority for dewatering the mine and will also inform the same to Ministry of Environment & Forest.
vi (b)	In case of depletion of water in the wells of nearby villages, the project authorities	•	Water supply will be provided free of cost to the villagers in case of

	should provide water supply free of cost to the villagers.		depletion of water in the wells of nearby villages.
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.	•	So far we have constructed 06 nos. of Check dams on river Shingoda and 01 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 Annexure IV
viii	Top soil should be properly stacked at earmarked dump site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	•	Top soil generated during mining operation is being stacked at designated area and being used for mines reclamation and green belt development.
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.	•	To collect surface run-off and arrest silt and sediment flow from the soil & mineral stacks, garland drains along with settling pond is constructed along the toe of the stacks, ultimately drain water collected into mined out pit. The drains are properly maintained and water so collected is utilized for agri-farming.
х	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.	•	Regular interactions are being carried out with agriculture university & forest deptartment for plantation /afforestation. Even forest dept. is using sapling from our nursery for tree plantation. Details of mines reclamation and plantation are enclosed as Annexure V (A) & V (B).

		•	Saplings are being provided by local forest department for plantation. Receipt of the same is attached as Annexure V (C).
xi	The North block of the mine should be fully converted to agricultural farms; the middle block should also be converted to agricultural farms/orchards and partly for water harvesting. Southern block of the mine should be converted to reservoir for water storage. Efforts should be made to backfill the worked out areas concurrently to the extent possible.	•	Suggested scheme partly implemented to the mined out blocks, as per approved mining plan /mining scheme. Surface Plan is attached as Annexure III
xii	A detailed mine decommissioning plan should be submitted to the Ministry of Environment & Forests 5 years in advance for approval.	•	Point noted and will be complied at the time of mine closure. We will submit detailed mine decommissioning plan to the Ministry of Environment, Forest & Climate Change 5 years in advance for approval.
xiii	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring should be done four times a year — premonsoon (April/May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected should be sent at regular intervals to MoEF & the Central Ground Water Authority.	•	Ground water level & quality monitoring is being done regularly by establishing a network of ground water monitoring stations (existing wells and installing new piezometers). Report is submitted to MoEF regional office Bhopal on six monthly basis. Ground water level & quality monitoring reports are enclosed as Annexure VI.
xiv	Digital processing of the entire lease area using remote sensing technique should be carried out 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.	•	We carry out digital processing of the entire lease area using remote sensing technique regularly once in every three years. Land use pattern report study is being conducted by Compusense Automation, Ahmadabad. Report has been prepared and will be submitted to MoEF as soon as possible.
xv	Vehicular emissions should be kept under control and regularly monitored.	•	Vehicular emissions are being checked & monitored regularly. Detail of P.U.C certificate by Omkar driving school & P.U.C center (Approved by Government of Gujarat) is enclosed as Annexure VII.

B. Gen	neral Conditions		
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	•	We are following the same mining practices through state of art Surface Miner as proposed in para no. of EC. In case of any change in the mining technology and scope of working, we will take prior approval from Ministry of Environment, Forest & Climate Change.
ii	No change in the calendar plan including excavation, quantum limestone and marl, waste / OB dumps should be made.	•	There is no change in the calendar plan. Production details as per approved mining scheme is attached as Annexure VIII
iii	Five ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RSPM, SO2, NOx and CO monitoring. Location of the ambient air quality stations should be decided on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultations with the State Pollution Control Board.	•	Five ambient air quality monitoring stations have been established in core & buffer zone. Ambient air quality monitoring results for the period October'16 to March'17 is enclosed as Annexure IX . 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.
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.	•	Half yearly ambient air quality monitoring report is being regularly submitted to MoEF, our last submission was on 28.11.2016 vide letter no.ACL/EMD/F-16/2016. Ambient air quality monitoring results for the period October'16 to March'17 is enclosed as Annexure IX .
V	Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations, loading and transportations of minerals etc.		Environment friendly Surface Miner machine is being used for mining. This has been provided with inbuilt facility of water sprinkling to suppress dust generated during mining. On all haul roads regular water sprinkling is being done by water tankers. Monitoring results of Air borne dust survey is enclosed as Annexure X .
vi	Adequate measures should be taken for control of noise levels below 85 dB (A) in the work environment.	•	All the workers working in high noise areas have been provided with ear plug/ear muffs. Result of Ambient noise monitoring as well as HEMM

	WOLI Letter NO. 0-11013/0/2000-1	-7	noise monitoring report is enclosed as Annexure XI & XII.
vii	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.	•	All personnel working in mines are provided with dust masks, safety shoes, safety goggle & Helmet. Occupational health surveillance program of the workers is being undertaken periodically by our Occupational Health Centre.
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.	•	Details of capital and recurring expenditure for environmental protection measures are enclosed as Annexure XIII.
ix	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated Environmental safeguards. The project authority should send one set of EIA/EMP report and mining plan to them and extend full co-operation to officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	•	Point noted. Full support and co-operation is being extended during the visit of officers from Ministry of Environment & Forest, CPCB as well as GPCB Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to 13.10.10.
X	The project authority should inform to the Regional Office located at Bhopal as well as to the Ministry of Environment & Forests regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	•	Point noted.
xi	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry	•	GPCB is the concern authority for the same.
xii	The Project authorities should advertise at least in two Local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven 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 may also be seen at web site of the Ministry of Environment & Forests at http://envfor.nic.in.and a copy of this ministry at Bhopal.	•	Advertisement was published in two local news papers. Copy of advertisement has been submitted to MoEF on 25.12.2010 vide letter no. ACL/EMD/F16/2010/55926.

3	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	•	Point Noted and any further condition of Ministry and competent authority shall be complied for environment protection.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.	•	Point Noted. All the mentioned conditions are being complied.
5	The above conditions will be enforced, inter alia, under the provisions of the Water (Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act 1986, and the public Liability Insurance Act 1991 along with their amendments and rules.		All mentioned conditions under the provisions of the Water (Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act 1986, and the public Liability Insurance Act 1991 along with their amendments and rules are being complied.

Ambuja

Read. Post

GACL/SCP/'06/5952

03.11.2006

Shrl RamKumar, Dy.Conservator of Forest, Gir (West Region), Junagadh (Guj.).

Dear Sir,

Sub: Depositing of funds towards development of Fodder Plot at Sabdharvidi,

Jamwala.

Ref: Your letter No.K/5/pvu/189-91/ 2006-07 dated 22.05.2006.

This has reference to your above cited letter advising us to deposit Rs.926857/-(Nine lacs twenty six thousand eight hundred fifty seven only) for the said purpose . The amount has been deposited in State Bank of Saurastra , Kodinar on 26.09.2006. As desired, original copy of the challan is enclosed for your reference and records.

Thanking you,

Yours faithfully,

For Gujarat Ambuja Cements Ltd.

(S C PARTK) OTI

General Manager (Mines)

Encl: a/a. in original

OFFICE CUPY

કસાક ક/પ/પવય/ /૨૦૦૬-૦૭, ાયબ વન સંરક્ષકશ્રીના કચેરી, ગીર (પશ્ચિમ) વિભાગ, જુનાગઢ તારીખ:-2 2 /પ/૨૦૦૬.

પ્રતિ, શ્રી ટી.આઃ રાજશેબર જનરલ મેનેજર (જીઓલોજી), ગુજરાત અંબુજા હારે હે લી., મું. અંબુજા નગર, તા. કોડીનાર, જીં. જૂનાગઢ

િષ્યા: કેવલોપમેન્ટ ઓફ ફોડર પ્લોટ ઈન ધ નીયર બાય રીઝર્વ ફોરેસ્ટ એરીયા.

ર્સદર્ભ : આપના પત્રાંક : જી.એ.સી.એલ./ જી.ઈ.ઓ./ ટી.આર.આર./ ૨૭૮૬૬, તા. ૮ ૧ ૨૦૦૫.

महाक्षाम,

જવાદારા સાથે ઉપરોક્ત વિષય અનુસંધાને જજ્ઞાવાવનું કે, જોઈન્ટ ડાયરેક્ટરશ્રી, (સેન્ટ્રલ) વન અને પર્યાતરજ્ઞ કોરાત્રા, તે દિલ્હીના પત્રાંક જે/૧૧૦૧૫/૬/૨૦૦૦ — આઈ.એ. — II/ (એમ), તા. ૨૦-૬ -૨૦૦૨ લાં કહેદાં કે કહેદાન લે. - ૨ મુજબ કોડર પ્લોટના વિકાસ માટે અત્રેના વન વિભાગનાં મોજે જામવાળા મુકાયે આવેલ લાપધાર વીડી ની સુધારજ્ઞા કરવા માટે (એમ.ઓ.યુ.) તૈયાર કરવામાં આવેલ છે. જેની સાથે અત્રેથી જોકેદલામાં અવોલ ઘાંસ સુધારજ્ઞા પ્લાન્ટેશન સ્ક્રીમાનાં માળખા મુજબ વર્ષ વાઈઝ બજેટની જરૂરીયાત દર્શાવવામાં આવેલ છે. જે મુજબ પ્રથમ વર્ષ થી ચાર વર્ષ માટે તેમજ કન્ટીજન્સી એકપેન્ડીચર સહીત રા. ૯,૨૬,૮૫૭/ એક ફ્રિયાનલ લાખ છવ્લીસ હજાર આઠસો સતાવન પુરાનું ચલણ તૈયાર કરી પાંચ પ્રતમાં મોકલવામાં આવે છે. જે ૪૭૮૨ કોરેસ્ટ રેમીટન્સ હેડે ભરપાઈ કરી ચલણની અસલ પ્રત અત્રેને મોકલી આપવા વિનાતી છે.

सलेकः असर ५७५

આપના દાશ્વાસુ, (રામ કુમાર) નાયબ વન સંરક્ષક ગીર (પશ્ચિમ) વિભાગ, જુનાગઢ

બકલ સાદર રવાના મારા સંરક્ષકશ્રી, વન્ય પ્રાણી વર્તુળ, જુનાગઢ તરફ વિદિત થવા સારૂ.

જા ભરતાના : સર્વે શાખા તરફ જરૂરી જાણ થવા સારૂ.

Registered Post

GACL/GEO/TRR/05/

February 15, 2005

Shri Ram Kumar, Dy. Conservator of Forest, Gir (West Division), Junagadh.

Dear Sir,

Sub: Depositing of funds towards development of Fodder Plot at

Sabdharvidi, Jamwala.

Ref: Your letter No. K/24/JMN/2509/11/2004-05 dtd. 19/1/2005.

This has reference to your above cited letter advising us to deposit Rs.12,99,839/- for the said purpose. The amount has been deposited in State Bank of Saurashtra, Kodinar, on 31/1/2005. As desired, original copy of the Challan is enclosed for your reference. We request you to kindly commence the work at the earliest.

Thanking you,

Yours faithfully,

For Gujarat Ambuja Cements Ltd.

(T R Rajasekhar)

a elea

General Manager (Geology)

Encl: a/a.

Cc: Shri Y Raghavendra Rao, Jt. President (M&G), Kalina.

ofe

JR/1088/178/Z, dt. 15-7-88

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Handson Accounteme [mesa gad]	dillo	S.B.S. Heart state afferiel	Allen offer		મંજૂર કરતાર અધિકારીની સહી.	, ž.	Maluss retton માટ્યું કર્યા કરા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કરા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કરા કર્યા કરા કર્યા કરા કર્યા કર્યા કર્યા કર્યા કરા કરા કર્યા કરા કર્યા કર્યા કર્યા કર્યા કર્યા કરા કરા કર્યા કરા કર્યા કરા કરા કરા કર્યા કરા કરા કરા કર્યા કરા કરા કરા કર્યા કરા કરા કરા કરા કરા કરા કરા કરા કરા કર	ખાતાના અમલદારે કે તિજોરીએ ભરવાનું

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-: 03/5+17441+17(2017)71:-

عراق المراق ال

જોજી(મા જોડે≯ લ્લા સરપંચ નગડલા-સુગાળા જુથ ગ્રા.પં.

આમલતદાર કરોરી ક્રોડીનાર તા- ૧૦૧૧/૦૭

(टामशः- जाड डामवानी पारवामगी.

नारतामभी १-

ત્રનાથી પત્રવાના ત્રમાપામાં ત્રમાવેલ કે કોઇના ત્ર લાલુકાના મોજે-સુગામા ગામની ધ્રા મુજરાલ ત્રહેલુના ત્રિયોન્ટ કું.લી. ત્રને પોલાના માત્રે ત્રાહેલ જ્યાન ત્રાહેલું કે વન્દ્રજન્દ્રવ ત્રોન્ય માં ઝાડ માત્રે ત્રાહેલ જ્યાન ત્રાહેન કે દ્રત્ર કે વન્દ્રજન્દ્રવ ત્રોન્ય માં ઝાડ ખાત્રવરાન્ડ હોલારાની ત્રવેલલ ન વધા ત્રાને ત્રફાપીજ કે વન્દ્રલ્લોના જયાનમાં આલાન ર એલાન ન લથા ત્રાને વધ કે વે વન્ડ્રલ્લોના જયાનમાં આલાન ર એલાન ન લથા ત્રાહેલન ક હોલા ત્રાહેલ છે. વન્ડ્રલ્યાન કું જયાનમાં પ્રાથાન ર લાલા ત્રાહેલા કો પ્રાથાન ન લાલા ત્રાહેલા સ્પાલા કે વધા ત્રાહેલા કો પ્રાથાન ન સ્પાલા સ

यमाभ इस. २१ (अनेड्याम) ၁515 हायदानी भंदूरी नियोजी अपसी ने यमाधान यमापवामां स्माविधे.

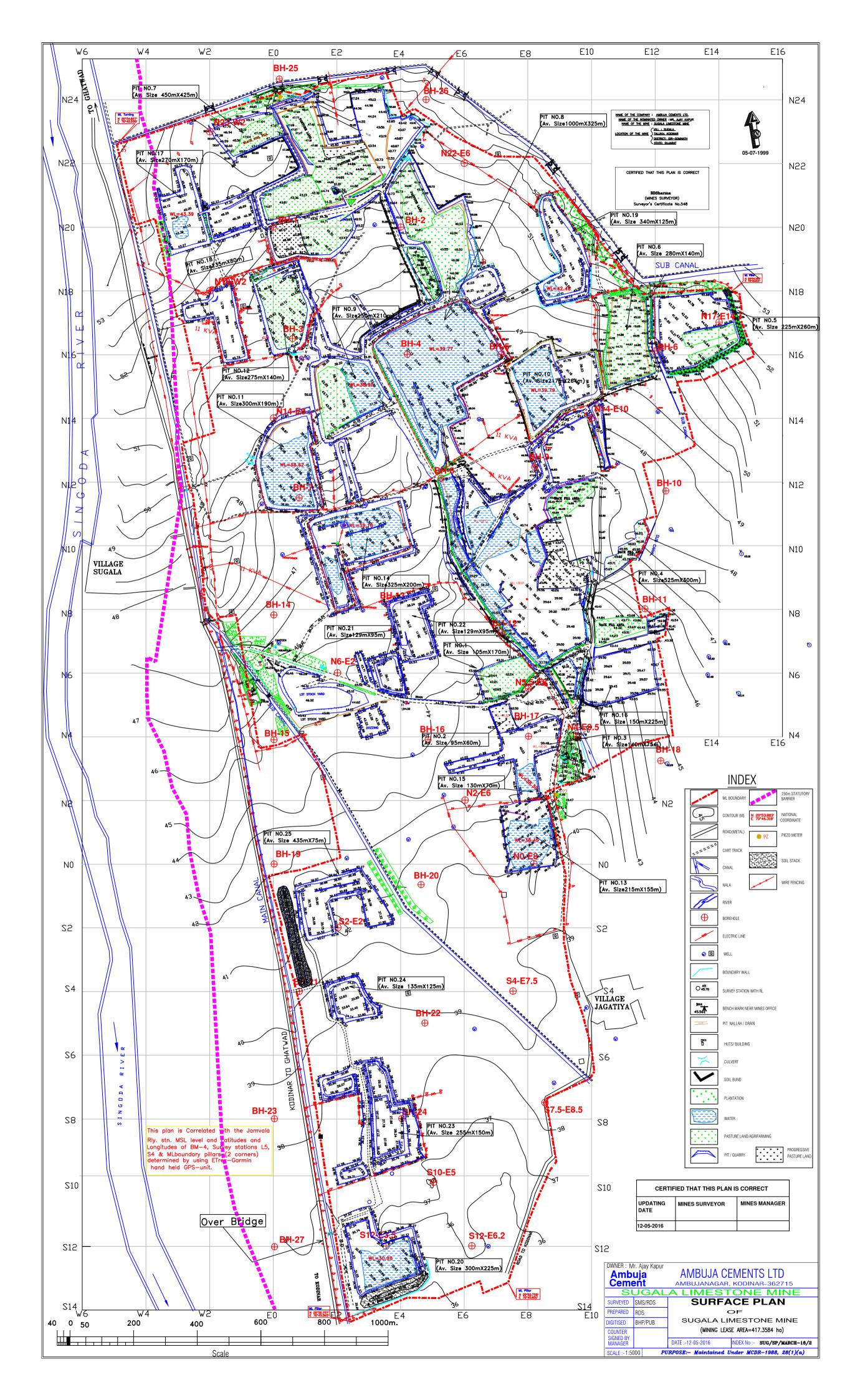
कान ती

- (१) रपरमहार रमा २१९ अपि तमक राग्ने रपरमाण नर्ण हमरा लों हत्य इरां नहि
- (4) केरसाजाड मायवानी डार्थवाहि। मंगुनी रूपायोप हो. होनाश अमरण नवा जाडी अहिरवाना रहेशे.
- (3) फाडवान्यों अभेडल वज्यते वम्याषु / प्राप्त रंशायतमी ननाशिही भेजल्यानी नहेंग्रो.

(७) आ परमानग भात्र १५ मिस्ता साधा भान्य रहेशो.

ને કેલ નવાન)

(1) लक्षारी भेनाही खुआणा (2) स्वरंक्शर ही अन्दरात क्षेत्रना प्रिमिन्ट वि - पडनार



Annexure - IV

Details of Check dams across River Shingoda

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

ANNEXURE V (A)

SUGALA	MINES Greenbel	t & Plantation D	etails till Mar	ch 2017
Total Lease Area (in ha)	Opened up Area (in Ha)	Planted Area (in Ha)	Pasture land (in Ha)	Water Body (in Ha)
417.3584	161.9946	10.0592	31.3475	0

Green Belt in Sugala Mines

Annexure V (B)





Green Belt in Sugala Mines

Annexure V (B)





Green Belt in Sugala Mines

Annexure V (B)





2. R., R. D., No. 5377 of 2-6-11] For Sing. Art. 105. For Code) 30 21 GM 20 12-7 (4 M10) 1 (4 M10) 1 419510 337111/ ડિવિઝન હ્યુના તં. ૧૪ રહેવાસી નામ એમની પાસેથી નીચે વિગત થતા ત્રી છે તે મુજબ માલ વેચાણ આપ્યા બદલ રૂપિયા લીધા. વિગત ત.પૈસા શેરો સંખ્યા **63**~ માલ खगामा नक्षि<u>री इस</u>्तिश्वारोपासल्प्र 910 M Scalbring 924 32161 £611 2) ฯ เ*ศ* ७७४४७ 발화대 : (남기(L/J) **લાગ્રેમ**ાલ (નાક) વ ફ

Annexure - VI

Sept' 2016

SN	Ref.No.	IS 10500	0:2012 (S.R)														
O.14.	nevo.		Permissible				Grour	nd Water Qu	ality Report	t of Sugala I	Mines (Sept	-2016)				Piezor	neters
	Source		•	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	no-1	
	Village	1		SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	SUGALA	Ī
	Taluka	1		KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	KODINAR	Ī
	District	1		GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	GIR-SOMNATH	Ī
1	Color Hazen Units	5	25	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	C.L.	Ī
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	1
3	Turbidity NTU	1	5	1	1	1	1	0	0		1	1	0.47	0.72	0.68	0.45	Ī
4	Dissolved Solids mg/I	500	2000	478	460	266	446	788	564		726	550	496	454	482	338	1
5	pH	6.5 to 8.5	No Relaxation	8.2	8.14	8.42	8.09	7.86	7.99		8	8.19	8.17	8.36	8.04	8.31	1
6	Total Hardness (as CaCO3) mg/l	200	600	276	260	144	300	420	320		380	328	300	268	328	184	ı
7	Calcium (as Ca mg/l	75	200	55	52	29	60	84	64		76	66	60	54	66	37	1
8	Magnessium (as Mg) mg/l	30	100	34	32	17	36	51	39		46	40	36	32	40	22	1
9	Chlorides (as Cl) mg/l	250	1000	80	64	48	44	120	84		120	80	76	80	40	68	Ī
10	Sulphates (as SO4) mg/l	200	400	45	42	23	48	68	52		61	53	48	43	53	30	
11	Nitrates (as NO3) mg/l	45	No Relaxation	15.8	41.1	5.6	11.1	98.7	43.4		83.1	27.6	12	3.7	21.1	2.3	
12	Fluorides (as F) mg/l	1	1.5	0.87	1.06	0.54	0.53	0.89	1.27		0.57	0.79	0.94	0.52	0.29	0.09	
13	Alkalinity (as CaCO3) mg/l	200	600	152	160	60	160	140	152		156	160	120	120	100	56	1
>>	Water level in mtr. from ground level																
	ICACI																

Annexure 11



(Approved by mot	UNDER CON or Vehicle Departme	nt Go	vernm	ent of G	ujarat	FR
5, Bharati Complex, Giriraj Societ	v Main Road, Nr. Bus St	ation, J	UNAGA	DH. M. 9	8242 2	7309
PUCC No. D085003587	It is certifed that this vehicle conferms to the	Opacity (%)	Kval (l/m)	Idie RPM	Max. RPM	Oil Temp
Valida No. GJ-11-Y-5149	emission level stanards	01.8	0.04	1542	1745	060
Vehicle No.	Prescribed under rules 115(2) of the Central	01.4	0.03	1320	1652	060
Make	Motor Vehicles Rules, 1989	01.4	0.03	1241	1625	060
Model	In case of complaint 4	01.4	0.03	1420	1652	060
Category	Commissioner of Ava	01.5	0.03			PASS
Mfg. Year 09/Jan/2008	Transport, Gujarat State.		Miles.			
Fuel DIESEL					_	
Date Oct 23, 2016	Testing Certer Seal		Kelli	1-Y-5149		
Time 07:26						
Velid Up To Apr 22, 2017	Authorised Signature	Aut	horised Ce	enter Code :	85/D/200	05
આ પી.ચુ.સી. સર્ટી પુરૂ થવાની રાજ્યુ	કરવાનું સરનામું : 3ં051ર ડ્ર રતી કોમ્પલેક્ષ, ગીરીરાજ સોસાચટી મેદ	ાઇવી	ग २५६	1 & पी.	યુ.સી.	सेन्दर

			Annexure - VIII						
Sugala Limestone Mine									
	M/s A	Ambuja Cement L	td						
		Ambujanagar							
Produ	ction & Dispatch D	etails as per appi	oved mining scheme						
Year	Aprroved Qty	Production	Dispatch						
i Cai	MT	MT	MT						
2012-13	1288796	1252093	1257075						
2013-14	1289351	1154738	1218109						
2014-15	1281918	1263398	1281714						
2015-16	1293529	1274254	1289577						
2016-17	1292494	647341	693679						

Annexure IX

Ambient Air Quality Monitoring Results (October 2016 - March 2017)

													Aı	nbient Air	Quality Mo	nitorina Re	sults													
Month		W	orking Pla	ce			Sug	ala Villag	е			Ja	gatiya Villa					chhar Vill	lage			Nag	adala Vil	lage			Kans	sariya Vil	age	
	PM2.5	PM10	SO2	NOx	co	PM2.5	PM10	SO2	NOx	co	PM2.5	PM10	SO2	NOx	СО	PM2.5	PM10	SO2	NOx	СО	PM2.5	PM10	SO2	NOx	co	PM 2.5	PM 10	SO2	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)	(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)
Oct. 2016	30.00	57.00	11.40	15.20	BDL	33.00	59.00	12.20	16.40	BDL	29.00	50.00	11.90	15.60	BDL	27.00	58.00	11.50	15.30	BDL	29.00	56.00	11.80	15.90	BDL	25.00	45.00	12.30	16.40	BDL
	28.00	55.00	12.30	16.20	BDL	32.00	51.00	11.70	15.80	BDL	25.00	47.00	11.30	15.60	BDL	28.00	53.00	12.30	16.00	BDL	25.00	44.00	11.70	15.30	BDL	30.00	48.00	11.90	15.70	BDL
Nov.2016	32.00	59.00	10.50	15.00	BDL	35.00	62.00	11.30	15.60	BDL	31.00	53.00	12.60	16.10	BDL	25.00	50.00	11.10	14.90	BDL	30.00	54.00	12.30	15.60	BDL	22.00	41.00	11.60	15.30	BDL
	30.00	59.00	10.90	15.10	BDL	34.00	53.00	11.20	15.70	BDL	28.00	50.00	12.50	16.30	BDL	30.00	55.00	11.40	15.30	BDL	27.00	47.00	12.60	16.00	BDL	33.00	51.00	12.10	15.10	BDL
Dec.2016	29.00	56.00	10.90	15.30	BDL	33.00	59.00	11.60	15.90	BDL	27.00	52.00	12.80	16.20	BDL	27.00	48.00	11.40	15.10	BDL	29.00	52.00	12.60	15.90	BDL	24.00	43.00	11.90	15.50	BDL
	28.00	61.00	11.20	15.60	BDL	35.00	55.00	12.60	16.10	BDL	30.00	53.00	11.70	15.20	BDL	27.00	53.00	11.10	15.60	BDL	24.00	45.00	12.30	15.90	BDL	30.00	49.00	11.90	15.10	BDL
Jan. 2017	27.00	53.00	11.40	14.60	BDL	30.00	55.00	12.40	15.50	BDL	24.00	48.00	10.90	14.20	BDL	24.00	45.00	10.90	14.80	BDL	25.00	49.00	12.30	16.10	BDL	22.00	41.00	10.40	15.10	BDL
	32.00	65.00	12.40	15.70	BDL	27.00	57.00	11.90	15.20	BDL	30.00	55.00	12.10	16.10	BDL	25.00	51.00	12.30	15.90	BDL	22.00	42.00	11.90	15.10	BDL	28.00	47.00	12.80	16.20	BDL
Feb. 2017	25.00	50.00	11.10	14.30	BDL	28.00	52.00	12.10	15.10	BDL	22.00	46.00	10.70	14.70	BDL	21.00	43.00	10.50	14.60	BDL	23.00	45.00	12.20	15.80	BDL	20.00	39.00	10.20	14.90	BDL
	30.00	62.00	12.10	15.90	BDL	25.00	55.00	11.60	16.20	BDL	28.00	52.00	12.40	16.70	BDL	27.00	55.00	11.80	15.60	BDL	25.00	47.00	12.40	16.20	BDL	29.00	50.00	12.10	15.90	BDL
March 2017	22.00	48.00	10.90	14.10	BDL	26.00	50.00	11.60	14.90	BDL	20.00	44.00	10.50	14.20	BDL	23.00	44.00	11.50	14.90	BDL	26.00	47.00	12.20	15.40	BDL	22.00	40.00	11.20	14.30	BDL
	32.00	64.00	11.70	15.60	BDL	27.00	53.00	12.50	16.80	BDL	25.00	50.00	11.30	15.30	BDL	25.00	52.00	10.90	14.80	BDL	22.00	45.00	11.60	15.30	BDL	27.00	48.00	12.40	16.60	BDL
Minimum	22.00	48.00	10.50	14.10	0.00	25.00	50.00	11.20	14.90	0.00	20.00	44.00	10.50	14.20	0.00	21.00	43.00	10.50	14.60	0.00	22.00	42.00	11.60	15.10	0.00	20.00	39.00	10.20	14.30	0.00
Maximum	32.00	65.00	12.40	16.20	0.00	35.00	62.00	12.60	16.80	0.00	31.00	55.00	12.80	16.70	0.00	30.00	58.00	12.30	16.00	0.00	30.00	56.00	12.60	16.20	0.00	33.00	51.00	12.80	16.60	0.00
Average	28.75	57.42	11.40	15.22	#DIV/0!	30.42	55.08	11.89	15.77	#####	26.58	50.00	11.73	15.52	#DIV/0!	25.75	50.58	11.39	15.23	#####	25.58	47.75	12.16	15.71	#####	26.00	45.17	11.73	15.51	#####

Annexure X

Air Borne Dust Survey - Sugala Mines (October 2016 - March 2017)

	Machine : Surface Miner				Machine : L		Machine : Loader				
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)
13-Oct-16	14:00-22:00	_	0.35	14-Oct-16	14:00-22:00	Cabin	0.32	15-Oct-16	14:00-22:00	_	0.38
14-Nov-16	6:00-14:00	ıbir	0.37 15-Nov-1	15-Nov-16	6:00-14:00		0.3	16-Nov-16	6:00-14:00	lbir	0.33
15-Dec-16	14:00-22:00	ပိ	0.32	16-Dec-16	14:00-22:00		0.35	17-Dec-16	14:00-22:00	ပိ	0.29
12-Jan-17	6:00-14:00	de	0.36	0.36 13-Jan-17 6:00-14:00 용		0.34	14-Jan-17	6:00-14:00 쁑	0.27		
13-Feb-17	14:00-22:00	nsi	0.35	14-Feb-17	14:00-22:00	nsi	0.33	15-Feb-17	14:00-22:00	nsi	0.28
16-Mar-17	6:00-14:00		0.37	17-Mar-17	6:00-14:00] <i>=</i>	0.36	18-Mar-17	6:00-14:00] =	0.31

Annexure - XI

	Ambient Noise Level Monitoring - Sugala Mines (October 2016 - March 2017)												
Noise Levels in dB(A)													
Month	Near Surf	ace Miner	Haul	road	Mines	Office	Sugala	Village	Chidiva	v Village			
	Leq (Day)	Leq (Night)	Leq (Day)	-eq (Night	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)			
Oct-16	67	63	65	61	61	57	51	48	45	40			
Nov-16	70	67	67	62	60	57	50	47	47	43			
Dec-16	71	67	68	62	61	55	51	46	45	42			
Jan-17	70	65	67	61	60	54	52	47	46	43			
Feb-17	69	64	68	62	63	55	54	49	49	42			
Mar-17	70	63	66	61	62	57	53	48	48	41			

Annexure - XII

			Noise Level of H	EMM - Sugala Mine	s (October 2016 -	March 2017)				
Machine	S	urface Miner			Loader		Dozer			
Month	Conditions	Noise Levels (dB)		Conditions	Noise Leve	els (dB)	Conditions	Noise Levels (dB)		
WOTH	Conditions	At 5m. distance	At 10m. distance	Conditions	At 5m. distance	At 10m. distance	Conditions	At 5m. distance	At 10m. distance	
		Leq	Leq		Leq	Leq		Leq	Leq	
Oct-16	While dozing the material	71	68	While loading to tipper	74	69	While mining	73	70	
Nov-16	While dozing the material	72	70	While loading to tipper	73	69	While mining	73	70	
Dec-16	While dozing the material	74	70	While loading to tipper	70	67	While mining	70	65	
Jan-17	While dozing the material	75	71	While loading to tipper	72	68	While mining	74	69	
Feb-17	While dozing the material	73	69	While loading to tipper	74	67	While mining	72	67	
Mar-17	While dozing the material	74	70	While loading to tipper	71	68	While mining	75	71	



EXPENDITURE INCURRED ON THE ENVIRONMENTAL MANAGEMENT PLANS

(A) Capital Investment for Environmental Monitoring:

(1) Monitoring Equipments : 37.08 Lakh

(2) Environmental Laboratory : 10.00 Lakh

(3) Others (Monitoring Van & DG sets) : 10.00 Lakh

Total: Rs. 57.08 Lakh

(B) Recurring expenditure for the period of October'16 to March'17:

(1) Green belt development & dust suppression : 14.98 Lakh

(2) Manpower Cost* : 15.93 Lakh

(3) House Keeping : 0.97 Lakh

(4) Other Env. Protection (Environmental Monitoring) : 1.25 Lakh

(5) Environmental Awareness* : 0.09 Lakh

Total: Rs. 33.22 Lakh

^{*}Expenditures are common for all the plants & mines.



EXPENDITURE INCURRED ON THE ENVIRONMENTAL MANAGEMENT PLANS

(C) Community Development expenditure by Ambuja: Rs. 1217.79 lakh Cement Foundation**

** Community development expenditure is common for all plant & mines at Ambujanagar for the period of October'16 to March'17. Programme Wise Expenditure Details is as below:

	Ambu	ja Cement Found	ation - Ambuja	nagar			
	Details for program	me wise expendi	ture from Oct.	2016 to march	2017		
							(Rs. In lakhs)
Sr.No	Programme	Funds from ACF Resources	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						
1	Water Resource Mangement & Drinking Water Projects						
	a. Water Resource Devlopment	32.77	-	7.89	-	-	40.66
	B . Drinking Water Programme	5.69	-	12.59	12.50	51.05	81.83
	c. Salinity Prevention (KVY III)	11.28	-	43.90	66.82	59.10	181.10
2	Agriculture Development(Farm Forestry & Afforesation)	5.28	-	5.89	33.60	49.09	93.86
3	Better Cotton Initiative (BCI)	3.17	-	29.83	92.76	7.31	133.07
4	Krishi Vigyan Kendra (KVK)	10.49	99.46	-	-	-	109.95
5	Health & Sanitation Programme	15.00	-	4.34	114.69	187.32	321.35
6	Skill and Enterprunership Development Programme	66.86	-	20.68	15.72	-	103.26
7	Village Knowledge Centre & Anganwadi exp	1.25	-	-	-	-	1.25
8	Women / Youth Development & Others	6.79	-	-	-	-	6.79
9	Integrated Community Development Programme	99.03	-	-	-	-	99.03
10	Co-ordination & Administration Expenses	42.15	-	-	-	-	42.15
11	Capital Expenditure	3.49	-	-	-	-	3.49
	TOTAL	303.25	99.46	125.12	336.09	353.87	1,217.79