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REGD. A/D

ACL/EMD/F-16/2014/3711

20.11.2014

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 Solaj Mines.

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

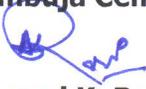
Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of April'14 to September'14) of Environmental Clearance Order No. J-11015/177/2006-IA-II(M) granted by MoEF to **Solaj Mines** of Ambuja Cements Ltd., located at village - Solaj , Taluka - Sutrapada , District – Gir Somnath (Gujarat). 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
HOD (Environment)

Encl.: As above.

Copy to:

- 1) Central Pollution Control Board
Western Zonal Office, Synergy House-II,
Subhanpura - Gorwa Road, Vadodara-390023 (Gujarat)
- 2) Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10-A,Gandhinagar-382010


1.12.14
Gujarat Pollution Control Board
Sector - No. 10-A,
Gandhinagar-382010

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

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

DATA SHEET

Date: 20.11.2014

- 01 Project type : Mining
- 02 Name of the project : Solaj Limestone Mine
- 03 Clearance letter(s) / OM no. and date : J-11015/177/2006- IA ,II (M) ,
6th March 2007
- 04 Location
- a) District(s) : Gir Somnath
- b) State(s) : Gujarat
- c) Latitude : 20° 50' 11" - 20° 51' 30"
- d) Longitude : 70° 36'24" - 70° 38'24"
- 05 Address for correspondence :
- a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers). : Shri, Dinkar Dashora
GM (Mines)
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. Sushant Kumar
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 & Marl are the main raw materials for the cement plants. The materials are being exploited from company's own captive mines i.e. Solaj Limestone Mine.

Solaj is located at a distance of about 12 kms in WNW direction with respect to cement plant. The rated capacity of the limestone & marl is 1.0 & 0.4 MTPA respectively.

- b) of the environmental management plans
- : * Mining operations do not involve drilling and blasting for material rising. Limestone excavation is being carried out by Surface Miner, direct excavation by excavators and ripper dozer.
 - * Regular monitoring of environmental parameters is being undertaken as per statutory requirements.
 - * Regular preventive maintenance of HEMM is being undertaken.
 - * Dust suppression by water sprinkling on haul roads and in working area is being carried out.
 - * Afforestation / Green belt development along haul road and lease periphery, mines office, mined out area etc.
 - * Mined-out areas to be converted to pasture land or to be rehabilitated by afforestation or converted to water reservoirs.
 - * Literacy drive and Socio-economic improvement measures are undertaken in the project buffer zone and is in progress.

07 Break up of the project area.

- a) Submergence area (forest & non-forest) : Not applicable
- b) Others : 200.8184 ha (Gauchar land)

08 Break up of the project affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan. : Rehabilitation or evacuation not involved while executing the project and the same conditions are existing.

- a) SC, ST / Adivasis : Not applicable
- b) Others : Not applicable

- 09 Financial details :
- a) Project cost as originally planned and subsequent revised estimates and the year of price reference. : Rs. 250 Lakhs
- b) Allocation made for environmental management plans with item wise and year wise break-up. : Pl. refer **Annexure – VIII**
- c) Benefit cost ratio / Internal rate of return and the year of assessment. : No separate assessment made for this project.
- d) Whether (c) includes the cost of environmental management as shown in the above. : Not applicable.
- e) Actual expenditure incurred on the project so far. : Rs. 7.47 Crores.
- f) Actual expenditure incurred on the environmental management plans so far. : Rs. 7.21 Crores.
- 10 Forest land requirement.
- a) The status of approval for diversion of forest land for non-forestry use. : The project area does not comprise of any forest land.
- b) The status of clearing felling : Not applicable.
- c) The status of compensatory afforestation, if any : Not applicable.
- d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far. : Not applicable.
- 11 The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information. : The project site mostly comprises of barren waste land only. It does not involve felling of trees.

- 12 Status of construction. :
- a) Date of commencement (Actual & / or planned) : 5th December 1996
- b) Date of completion (Actual and / or planned). : Continued
- 13 Reasons for the delay if the project is yet to start. : Not applicable.
- 14 Dates of site visits :
- a) The dates on which the project was monitored by the Regional Office on previous occasions, if any. : 12.10.10 to 13.10.10 by Dr. A. Mehrotra
Regional Office, Bhopal
- b) Date of site visit for this monitoring report : 12.10.10 to 13.10.10
:
- 15 Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits). : Half yearly compliance status report is being regularly submitted and last submission was on 25.05.2014 vide letter no.ACL/EMD/F-16/2014.

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

S No.	Condition	Compliance Status
A. Specific Condition:		
(i)	The environmental clearance is subject to final orders of the Hon'ble Court of Fast Track Judge & Joint District Judge, Veraval, in the matter.	<ul style="list-style-type: none"> The final order has been issued on dated 14th November 2006. Which has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.
(ii)	All the conditions stipulated by the State Pollution Control Board in their NOC should be effectively implemented.	<ul style="list-style-type: none"> Point noted and being complied.
(iii)	The proponent should carry out long terms studies on salinity and water levels in and around mining areas and submit report to this ministry, its Regional Office Bhopal and Central Ground Water Authority within a period of 6 months.	<ul style="list-style-type: none"> Water conservation measures to augment ground water resources in the area are being done by our Ambuja Cement Foundation (ACF). A glimpse about ACF & community development work done by ACF in surrounding areas is enclosed as Annexure II. A report on Impact of Limestone Mining and Salinity Ingression Status around ACL mines has been prepared by Ground Water & Mineral Investigation Consultancy Centre Pvt. Ltd. (GWMICC), Jaipur. Report has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.
(iv)	Top soil should be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	<ul style="list-style-type: none"> Top soil generated during mining operation is being stacked at designated area and being used for mines reclamation and green belt development.
(v)	Catch drains and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for mine pit and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide	<ul style="list-style-type: none"> To collect surface run-off and arrest silt and sediment flow from the soil & mineral stacks, drain 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 collected water utilized for watering the mine area, roads, green belt development etc.

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March 2007**

	adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	
(vi)	Plantation shall be raised in an area of 87.45 ha including a greenbelt around ML area , reclaimed area and around worked out pit, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1500 plants per ha.	<ul style="list-style-type: none"> Plantation & mines reclamation details are enclosed as Annexure – I (A) & I (B).
(vii)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	<ul style="list-style-type: none"> Water conservation measures to augment ground water resources in the area are being done by our Ambuja Cement Foundation (ACF). Details of water harvesting work done by ACF in and around area are enclosed as Annexure - II.
(viii)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction new piezometers during the mining operation. The monitoring should be carried out four times in a year Pre monsoon (April, May), monsoon(August), Post monsoon (November and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests, its Regional Office, Bhopal, Central Ground water Authority and Central Ground Water Board.	<ul style="list-style-type: none"> Regular monitoring of ground water level and quality is being carried out in and around the mine lease area by developing network of existing wells around mine lease area & by constructing new piezometers. Ground water level & quality monitoring report is enclosed as Annexure-IV.
(ix)	The Project authorities should obtain prior approval of the competent authority for withdrawal of groundwater if any, required for the project.	<ul style="list-style-type: none"> No withdrawal of ground water. Water requirement for drinking is being met from private purchase. Whereas water requirement for dust suppression and greenbelt development is being met from harvested rain water in mined out pit.
(x)	The mineral handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should be properly maintained and operated.	<ul style="list-style-type: none"> No mineral handling plant at Mines site. Mineral extracted is transported to cement plant by tractors, which is being covered with tarpaulin for prevention of fugitive emission.

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(xi)	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	<ul style="list-style-type: none"> • Vehicle emissions are checked regularly. All the vehicles used for transportation of minerals are covered with tarpaulin.
(xii)	No drilling and blasting shall be undertaken in the project.	<ul style="list-style-type: none"> • Blast free fully mechanized Surface Miner machine is used for mining.
(xiii)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhopal.	<ul style="list-style-type: none"> • Land use pattern report study is conducted by RRSC Jodhpur (June-13). Report has been already submitted to MoEF vide our submission dated 10.04.2014 vide letter no.ACL/EMD/F-16/2014/326/73117.
(xiv)	The void left unfilled in an area of 65.0 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slopes of higher benches shall be made gentler for easy accessibility by local people to use the water, body. Peripheral fencing shall be carried out along the excavated area.	<ul style="list-style-type: none"> • Void left in an area of 65.0 is converted in to water bodied and plantation has been done on the slope of benches. Gentle slope has been provided for ease of accessibility by local people. Peripheral fencing has been provided along lease boundary.
(xv)	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora, endangered fauna such as leopard and endangered migratory bird species spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the state forest and wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and fund so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.	<ul style="list-style-type: none"> • "Status of Biodiversity (Flora & Fauna) in core and buffer zone area of Solaj Mines has been conducted by "Gujarat Institute of Desert Ecology", Bhuj. Report with action plan for conservation of flora and fauna has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55925.
(xvi)	Consent to operate should be obtained from SPCB before starting enhanced production from the mine.	<ul style="list-style-type: none"> • Consent order no. AWH-37450 has been granted by GPCB vide letter no. PC/CCA-JNG-78 (3)/ID-17220/52370 dated 31/05/2010. Copy of Consent to operate has been submitted to MoEF

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		vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F- 16/2010/55925.
(xvii)	A final Mine Closure plan along with details of Corpus Fund should be submitted to Ministry of Environment & Forests in advance of final mine closure for approval.	<ul style="list-style-type: none"> Point Noted & will be complied.
B. General Conditions:		
(i)	No change in mining technology and the scope of working should be made without prior approval of the Ministry of Environment & Forests.	<ul style="list-style-type: none"> Point noted
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and marl and waste should be made.	<ul style="list-style-type: none"> Point noted
(iii)	At least four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ & NO _X monitoring. Location of the stations should be decided on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO ₂ & NO _X) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board once in six months.	<ul style="list-style-type: none"> Four ambient air quality monitoring stations have been established in core & buffer zone. Ambient air quality monitoring results for the period of April'14 to September'14 is enclosed as Annexure VII. The location of the monitoring stations is decided in consultation with GPCB and renowned consultant Sh. B Padmanabh Murthy, Professor of JNU and former Director of IMD Met-Dept on 5th and 6th Jan 2008.
(iv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	<ul style="list-style-type: none"> 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 III.
(v)	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.	<ul style="list-style-type: none"> All the workers working in high noise areas are provided with ear plug/ear muffs. Ambient noise monitoring as well as HEMM noise monitoring is being done on monthly basis. HEMM noise monitoring as well as ambient noise monitoring report is enclosed as

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		Annexure V & VI.
(vi)	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to confirm the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December installed before discharge of effluents from workshop.	<ul style="list-style-type: none"> A centralized workshop with necessary treatment facilities is located at cement plant for servicing and maintenance of mining machineries. Regular monitoring is carried out by M/s Royal Consultants, Rajkot, analysis report is enclosed as Annexure-IX.
(vii)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	<ul style="list-style-type: none"> Personnel working in mines are provided with dust masks, safety shoes, safety goggle & Helmet.
	Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The same programme may be extended to adjoining village also.	<ul style="list-style-type: none"> Occupational health surveillance programme of the workers is being undertaken periodically by our Occupational Health Centre.
(viii)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive, who will report directly to the Head of the organization.	<ul style="list-style-type: none"> A well established Environmental Management Division (EMD) with suitable qualified personnel is exist. Head of environmental management cell directly report to the Unit Head (Jt. President) of the organization. EMD organization chart is enclosed as Annexure X.
(ix)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure should be reported to Regional Office, Bhopal of the Ministry of Environment and Forests and to the Ministry.	<ul style="list-style-type: none"> Details of capital and recurring expenditure for environmental protection measures are enclosed as Annexure VIII.
(x)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing requisite data/information /monitoring reports.	<ul style="list-style-type: none"> Project was monitored by Dr. A. Mehrotra (Regional Office, Bhopal) during 12.10.10 to 13.10.10.
(xi)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional	<ul style="list-style-type: none"> Half yearly compliance status report is being regularly submitted, our last submission was on 25.05.2014 vide letter no.ACL/EMD/F-16/2014.

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	Office, Bhopal, Central Pollution Control Board and State Pollution Control Board.	
(xii)	A copy of the clearance letter will be marked to the concerned panchayat/local NGO, if any, from whom suggestions/representation has been received while processing the proposal.	<ul style="list-style-type: none"> • A copy of clearance letter has been marked to concern.
(xiii)	The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> • Existing Mines.
(xiv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's/Tehsildar's Office for 30 days.	<ul style="list-style-type: none"> • GPCB is the concern authority for the same.
(xv)	The project authorities should advertised at least in two local newspapers widely circulated, one of which shall be in vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhopal.	<ul style="list-style-type: none"> • Advertisement was published in two local news paper. Copy of advertisement has been submitted to MoEF on 25.12.2010 vide letter no. ACL/EMD/F16/2010/55925.
3	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	<ul style="list-style-type: none"> •
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (protection) Act, 1986.	<ul style="list-style-type: none"> •
5	The above conditions will be enforced intr-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	<ul style="list-style-type: none"> •

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	Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Court of fast Track Judge & Joint District Judge, Veraval in the subject matter.	
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ANNEXURE I (A)

SOLAJ MINES Greenbelt & Plantation Details till September 2014				
Total Lease Area (in ha)	Opened up Area (in Ha)	Planted Area (in Ha)	Pasture land (in Ha)	Water Body (in Ha)
200.8184	107.4428	9.8128	1.6657	0.0





Ambuja Cement Foundation - Ambujanagar
Details for programme wise expenditure from April to Sept-2014

(Rs. In lakhs)

Sr.No	Programme	Funds from ACF Resources	*Funds received through Government	** Funds from other Donors / Donor	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						-
1	Water Resource Mangement & Drinking Water Projects						-
	a. Water Resource Development	24.96					24.96
	B .Drinking Water Programme	2.65	-	5.80	2.80	27.56	38.81
	c. Salinity Prevention (KVY III)	10.91		22.04	24.14	26.45	83.54
2	Agriculture Development(Farm Forestry & Afforestation)	1.33		2.02	28.20	28.02	59.57
3	Better Cotton Initiative (BCI)	0.30		7.68			7.98
4	Krishi Vigyan Kendra (KVK)	5.65	46.84		-		52.49
5	Health & Sanitation Programme	5.68			4.29	-	9.97
6	Skill and Enterprunership Development Programme	15.35	4.47		7.12		26.94
7	Village Knowledge Centre & Anganwadi exp	0.92			-		0.92
8	Women / Youth Development & Others	2.09					2.09
9	Integrated Community Development Programme	42.91					42.91
10	Co-ordination & Administration Expenses	29.70					29.70
11	Capital Expenditure	1.46					1.46
	TOTAL	143.91	51.31	37.54	66.55	82.03	381.34

Annexure 3

Air Borne Dust Survey - Solaj Limestone Mines (April-2014 September-2014)

<i>Machine : Surface Miner</i>				<i>Machine : Dozer</i>				<i>Machine : Loader</i>			
Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)	Date	Period	Location	RSPM (mg/m3)
5-Apr-14	06:00 - 14:00	Inside Cabin	0.21	6-Apr-14	06:00 - 14:00	Inside Cabin	0.25	7-Apr-14	06:00 - 14:00	Inside Cabin	0.28
8-May-14	06:00 - 14:00		0.22	9-May-14	06:00 - 14:00		0.29	10-May-14	06:00 - 14:00		0.24
25-Jun-14	06:00 - 14:00		0.24	26-June-14	06:00 - 14:00		0.26	27-Jun-14	06:00 - 14:00		0.26
1-Jul-14	06:00 - 14:00		0.22	2-Jul-14	06:00 - 14:00		0.26	3-Jul-14	06:00 - 14:00		0.24
12-Aug-14	06:00 - 14:00		0.25	13-Aug-14	06:00 - 14:00		0.26	14-Aug-14	06:00 - 14:00		0.21
15-Sep-14	06:00 - 14:00		Not Running	-	06:00 - 14:00		Not Running	-	06:00 - 14:00		Not Running

Annexure 5

Noise Level of HEMM - Solaj Mines(April-2014 to September- 2014)

Machine	Surfaec Miner					Loader				
Month	Conditions	Noise Levels (dB)				Conditions	Noise Levels (dB)			
		At 5m. distance		At 10m. distance			At 5m. distance		At 10m. distance	
		Min	Max	Min	Max		Min	Max	Min	Max
Apr-14	While dozing the material	55	60	38	42	While loading to tipper	60	64	39	43
May-14	While dozing the material	52	56	38	41	While loading to tipper	55	60	40	43
Jun-14	While dozing the material	54	60	40	44	While loading to tipper	52	56	38	42
Jul-14	While dozing the material	50	55	40	44	While loading to tipper	52	57	41	43
Aug-14	While dozing the material	45	50	42	46	While loading to tipper	53	56	40	43
Sep-14	While dozing the material	-	-	-	-	While loading to tipper	-	-	-	-

Annexure 7

Ambient Air Quality Monitoring Results (April- 2014 - September 2014)

Month	Average Ambient Air Quality Monitoring Results																			
	Working place					Solaj Village					Khera Village					Moradiya Village				
	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO	PM2.5	PM10	SO2	NOx	CO
(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)	(µg/m3)	(mg/m3)
April 2014	27.00	44.00	12.20	16.20	0.40	30.00	45.00	13.40	16.80	0.50	32.00	47.00	12.00	17.50	0.30	29.00	42.00	11.40	17.10	0.40
	29.00	42.00	11.40	16.60	0.30	28.00	45.00	11.90	17.00	0.50	27.00	42.00	12.30	16.80	0.30	30.00	43.00	12.90	17.10	0.40
May 2014	24.00	48.00	12.70	16.70	0.50	27.00	50.00	13.10	17.40	0.30	30.00	43.00	12.40	17.90	0.40	26.00	46.00	11.80	16.30	0.50
	31.00	44.00	12.40	16.20	0.40	33.00	42.00	11.20	17.30	0.40	29.00	40.00	12.80	16.50	0.50	26.00	45.00	11.70	17.70	0.20
June 2014	22.00	45.00	12.40	16.20	0.30	24.00	48.00	13.40	17.80	0.40	31.00	41.00	12.80	17.30	0.50	29.00	44.00	11.50	16.60	0.40
	27.00	41.00	12.80	16.80	0.30	30.00	45.00	11.70	17.00	0.50	27.00	44.00	12.30	16.80	0.30	24.00	48.00	11.50	17.40	0.40
July 2014	25.00	43.00	12.10	16.80	0.40	27.00	45.00	13.20	17.50	0.50	30.00	43.00	12.50	17.00	0.40	32.00	40.00	11.80	16.10	0.30
	33.00	40.00	11.80	16.60	0.50	36.00	38.00	11.50	17.80	0.30	25.00	38.00	12.50	16.10	0.40	31.00	41.00	11.60	17.20	0.30
August 2014	20.00	33.00	10.70	14.40	0.10	25.00	43.00	13.60	17.20	0.40	28.00	46.00	12.90	16.50	0.30	30.00	45.00	11.50	16.90	0.20
	22.00	31.00	9.10	15.30	0.10	32.00	35.00	11.90	16.50	0.40	28.00	34.00	12.20	16.80	0.50	33.00	40.00	11.90	17.50	0.40
September 2014	21.00	34.00	11.20	14.10	0.20	29.00	42.00	12.40	16.60	0.30	25.00	44.00	13.40	15.40	0.40	23.00	41.00	12.50	16.20	0.30
	26.00	33.00	9.30	16.10	0.20	30.00	37.00	11.50	15.20	0.50	25.00	31.00	12.10	16.80	0.30	36.00	38.00	11.80	17.10	0.50
Minimum	20.00	31.00	9.10	14.10	0.10	24.00	35.00	11.20	15.20	0.30	25.00	31.00	12.00	15.40	0.30	23.00	38.00	11.40	16.10	0.20
Maximum	33.00	48.00	12.8	16.8	0.5	36.00	50.00	13.6	17.8	0.5	32.00	47.00	13.4	17.9	0.5	36.00	48.00	12.9	17.7	0.5
Average	25.58	39.83	11.51	16.00	0.31	29.25	42.92	12.40	17.01	0.42	28.08	41.08	12.52	16.78	0.38	29.08	42.75	11.83	16.93	0.36
Std. Deviation	4.06	5.64	1.24	0.92	0.14	3.39	4.44	0.89	0.71	0.08	2.39	4.74	0.40	0.65	0.08	3.80	2.93	0.45	0.52	0.10

(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 April'14 to September'14 :**

(1) Green belt development & dust suppression	: 3.63 Lakh
(2) Manpower cost*	: 13.92 Lakh
(3) House Keeping	: 0.89 Lakh
(4) Other Env. Protection (Environmental Monitoring)	: 0.90 Lakh
(5) Environmental Awareness*	: 1.10 Lakh

Total : Rs. 20.44 Lakh

*Expenditures common for all the plants & mines.

C) Community Development expenditure by Ambuja : Rs. 3.81 Crore Cement Foundation**

** Community development expenditure is common for all plant & mines at Ambujanagar for the period of April'2014 to September'2014. Programme Wise Expenditure Details is as below:

Ambuja Cement Foundation - Ambujanagar							(Rs. In lakhs)
Details for programme wise expenditure from April to Sept-2014							
Sr.No	Programme	Funds from ACF Resources	*Funds received through Government	from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						-
1	Water Resource Mangement & Drinking Water Projects						-
	a. Water Resource Development	24.96					24.96
	B .Drinking Water Programme	2.65	-	5.80	2.80	27.56	38.81
	c. Salinity Prevention (KVY III)	10.91		22.04	24.14	26.45	83.54
2	Agriculture Development(Farm Forestry &Afforesation)	1.33		2.02	28.20	28.02	59.57
3	Better Cotton Initiative (BCI)	0.30		7.68			7.98
4	Krishi Vigyan Kendra (KVK)	5.65	46.84		-		52.49
5	Health & Sanitation Programme	5.68			4.29	-	9.97
6	Skill and Enterprunership Development Programme	15.35	4.47		7.12		26.94
7	Village Knowledge Centre & Anganwadi exp	0.92			-		0.92
8	Women / Youth Development & Others	2.09					2.09
9	Integrated Community Development Programme	42.91					42.91
10	Co-ordination & Administration Expenses	29.70					29.70
11	Capital Expenditure	1.46					1.46
	TOTAL	143.91	51.31	37.54	66.55	82.03	381.34



Royal

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TEST REPORT (WASTE WATER)

Test Report No : 302/09/2014-15

Date :03-10-2014

Work Order No : 2800441789

Job Card No. : AMBUJA-P/2014-15/06

Name & Address of Customer : Ambuja Cements Limited,
P.O. Ambujanagar - 362 715.
Taluka : Kodinar, District : Junagadh.

Attention : Mr. Anand Rai

Date of Sample Receipt : 27/09/2014

Date & Time of Sampling : 27 / 09 / 2014 at 09:45 Hrs.

Lab ID : W/14-15/09/027

Date of Testing : 28th September to 3rd October 2014

Sample Type : Waste Water

Description of Sample Packing : Glass Bottle

Type of Sampling : Grab

Quantity of Sample : 2 Ltr.

Description : Treated Raw Water

Sample Collected by : Mr. Jimit Buddhdev

Sampling Method : IS 3025 : Part 1

Location of Sample : Treated Water - Workshop

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB	Results	Test Method
01.	pH	---	---	7.28	IS 3025 : Part 11
02.	Total Dissolved Solid	mg/l	---	418	IS 3025 : Part 16
03.	Total Suspended Solids	mg/l	---	39	IS 3025 : Part 17
04.	Dissolved Oxygen	mg/l	---	5.8	IS 3025 : Part 38
05.	Oil & Grease	mg/l	---	6.3	IS 3025 : Part 39
06.	BOD (3 days at 27 c)	mg/l	---	13	IS 3025 : Part 44
07.	COD	mg/l	---	28	APHA : 5220 C
08.	Residual Chlorine	mg/l	---	---	IS 3025 : Part 26

Authorized Signatory
Digvijay Jadeja



Analyst

* End of Report *

1. This test report (FMT-TP-SRV-010) shall not be reproduced except in full, without written approval from the Royal Environment Auditing & Consultancy Service
2. The results relate only to the item tested.

Annexure 10 [ORGANISATION CHART]

