

Ambuja Cement

REGD. A/D

ACL/EMD/F-16/2017/ 719

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.: Six Monthly Compliance Status Report of Environmental Clearance (MoST) & Environmental Clearance (CRZ).

Ref.: Environmental Clearance (MoST) Order No. PD/26017/4/98-PDZ dated 13.07.1998 & Environmental Clearance (CRZ) no.11-73/2007-IA-III dated 04.07.2008.

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 Order No. PD/26017/4/98-PDZ & CRZ Clearance No.11-73/2007-IA-III dated 13.07.1998 & 04.07.2008 respectively, granted to **Bulk Cement Terminal** of Ambuja Cements Ltd. located at village - Muldwarka, 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
HOD (Environment)

Encl.: As above.

- 1) Central Pollution Control Board
Privesh Bhavan, Atmajyoti Ashram Rd,
Opp. VMC Ward Office No. 10, Subhanpura,
Vadodara - 390023 (Gujarat)
- 2) Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010

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 Cross road 'B'
Off Andheri - Kurla Road, Andheri (E),
Mumbai - 400 059. Phone : (022) 4066700

- 3) 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 : Material Storage & Handling Facilities
(Captive Port)
- 02 Name of the project : Bulk Cement Terminal (Storage & Handling
Facilities) at Muldwarka
- 03 Clearance letter(s) / OM no. and date : MoST Clearance no.PD/26017/4/98-PDZ
(CRZ) Dated 13th July, 1998.

CRZ Clearance NO. 11-73/2007-IA-III Dated
4th July, 2008.
- 04 Location :
a) District(s) : Gir Somnath

b) State(s) : Gujarat

c) Latitude : 20°45' 58" N

d) Longitude : 70°40' 58" E
- 05 Address for correspondence :

a) Address of concerned Project Chief : Sh. S Ramarao
Engineer (with pin code & telephone / telex /
fax numbers). (Unit Head)
Ambuja Cements Ltd.
PO Ambujanagar, Taluka Kodinar
District Gir Somnath
Pin: 362715 (Gujarat)
Tel: 02795-221136/237200
Fax: 02795-220328/222032
- b) Address of Executive Project Engineer / : Sh. Vedang Mulani, (BCT-Muldwarka)
Manager (with pin code / fax numbers) Village-Muldwarka, Taluka- Kodinar,
District Gir Somnath
Pin: 362715 (Gujarat)
Tel: 02795 – 221513, 220214
Fax – 02795 – 220213
- 06 Salient features
a) of the project : BCT- Bulk Cement Terminal is a captive port
for storage and handling of cement, coal,
gypsum, fly ash/slag, rubber scrap and
furnace oil. It is 13 Kms. away from
Ambujanagar Cement Plant.

- b) of the environmental management plans : Bag filters have been installed at all transfer point and use of closed conveyor during loading/unloading of materials. Adequate plantations have been done at all open space and along plant boundary. Regular maintenance of existing air pollution control devices to increase the efficiency and minimize the fugitive emissions.
- 07 Break up of the project area. :
- a) Submergence area (forest & non-forest) : Not applicable
- b) Others : 47.10 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. : 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. : The total project cost was less than Rs.137.5 Crores.
- b) Allocation made for environmental management plans with item wise and year wise break-up. : Please refer **Annexure - II**
- 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. 138.25 Crores
- f) Actual expenditure incurred on the environmental management plans so far. : Rs. 9.23 Crore
- 10 Forest land requirement. :
- a) The status of approval for diversion of forest land for non-forestry use : The project area does not comprise any forest, 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. : Not applicable.
- 12 Status of construction. :
- a) Date of commencement (Actual and / or planned) : 1993
- b) Date of completion (Actual and / or planned). : 1993 (Ist Phase), 1997 (IInd Phase)
- 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 28.11.2016 vide letter no.ACL/EMD/F-16/2016.

**Compliance Status Environmental Clearance (MoST) for Storage and Handling of
Furnace Oil at BCT Muldwarka
(Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)**

S No.	Compliance	Compliance Status
2 (i)	All construction design/drawing relating to construction activities must have the approval of the concerned state govt. Department/Agencies. Ground water should not be tapped for construction activities.	<ul style="list-style-type: none"> Point noted and complied. No ground water was tapped during construction activities.
2 (ii)	Adequate provision for all infrastructural facilities such as water supply, fuel, sanitation etc. must be extended for laborers during the construction period in order to avoid damage to the environment.	<ul style="list-style-type: none"> The project activity has already over; hence, it is not applicable at this stage. However, Currently all required infrastructural facilities such as drinking water and sanitation are available for employees and workmen.
2 (iii)	Dredging operations, if any should be undertaken in consultation with the Central Water and Power Research Station, Pune or the National Institute of Oceanography, Goa to ensure that dredging operation do not cause adverse impact on water quality and marine productivity in the vicinity. Dredging operation as far as possible should be kept to the minimum for avoiding adverse impacts on marine life.	<ul style="list-style-type: none"> For furnace oil storage & handling facility dredging activity is not applicable. Whereas as far as jetty is concern, whenever dredging operation is carried out, consultation with National Institute of Oceanography will be carried out.
2 (iv)	Disposal sites for excavated material, if any , should be also designed that the revised land use after dumping in the land use pattern do not interfere with the natural drainage.	<ul style="list-style-type: none"> Point noted & being complied.
2 (v)	To meet any emergency situation, adequate foam containers should be kept ready with supporting fire fighting system and water pipeline.	<ul style="list-style-type: none"> Full – fledged fire fighting system is installed and regular mock drills are being carried out. A separate fire tender is also available at Bulk Cement Terminal with adequate quantity of foam and other fire fighting agents.
2 (vi)	The staff posted in sensitive areas should be trained in implementation of the Crisis Management Plan already drawn by the authorities. Mock drill(s) for this purpose should be conducted on a regular basis. Provisions of Dock Safety Act and the guidelines issued by the DGFAST/CLI, Bombay for the safety and health of the dock workers should be followed.	<ul style="list-style-type: none"> Complied. Regular monthly training on crisis management as well as fire fighting is being organized at BCT, Muldwarka. All other regulatory requirements as per the provision of the act are being implemented. Representative of Gujarat Maritime Board is also posted permanently for supervision on implementation of the necessary

**Compliance Status Environmental Clearance (MoST) for Storage and Handling of
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(Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)**

		requirement. All the provision of Dock Safety Act and the guideline issued by DGFSALI for the safety and health of the dock workers is being effectively followed.
2 (vii)	For development of green buffer including mangroves wherever feasible, the authorities should start grooving large nursery of multipurpose species such as Eucalyptus, Casuarinas, Dalbergia, Termalia etc. The norm of about 2000-2500 trees per ha may be adopted for raising of green belt.	<ul style="list-style-type: none"> Complied. <p>The local shore conditions are not conducive for mangroves plantation. However the company has established Nursery where in large variety and numbers of plants are grown for carrying out plantation at BCT – Muldwarka and surrounding region. We have planted approx. 11200 nos. of various plant species. Mangroves plantation has been carried out in 100 Hectares area at village - Karanj, Taluka - Olpad, District - Surat. Gujarat. Ecology Comission, Gandhinagar is the implementing agency for the mangrove plantation project. Plantation has been completed in 100 ha. area. Status report of the mangroves plantation has been already submitted to MoEF vide our submission dated 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55921. Photographs of mangroves plantation has been submitted to your good office vide our submission dated 30.06.2012 vide letter no.ACL/EMD/F-16/227/65953.</p>
2 (viii)	To prevent discharge of sewage and other liquid wastes including ballast in to marine environment, adequate system for collection, treatment and disposal of liquid wastes must be provided to the satisfaction of Gujarat Pollution Control Board.	<ul style="list-style-type: none"> Complied. <p>No industrial liquid effluent is generated from plant premises. Only negligible amount of domestic sewage generated, which is being disposed off through septic tank.</p>
2 (ix)	Adequate noise control measures must be provided to maintain noise level within the ambient standards prescribed by the competent authorities in various work places. If need be, ear plugs and ear muffs should be provided to the workers in the port area.	<ul style="list-style-type: none"> Complied. <p>High noise areas have been identified & earmarked. Proper enclosures have been provided in high noise areas. Also applicable personnel protective equipments are being provided to all workers & employee.</p>
2 (x)	The quality of treated effluents, solid wastes and emissions must confirm to the standards laid down by the competent authority including Central/State Pollution Control Boards.	<ul style="list-style-type: none"> Point noted and being complied.

**Compliance Status Environmental Clearance (MoST) for Storage and Handling of
Furnace Oil at BCT Muldwarka**

(Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)

2 (xi)	An Environmental Cell should be immediately made operational with adequate laboratory facilities, equipments and mobile van for collecting air samples. The record and the data should be submitted with proper analysis and corrective measures required, if any, for maintaining the levels within the prescribed limits to the Regional Office of Ministry of Environment & Forests, Bhopal, which will be monitoring the strict implementation of these conditions at local level.	<ul style="list-style-type: none"> Complied. <p>A full-fledge Environmental Management Division with qualified staff is established along with well-equipped mobile monitoring van and Environmental Laboratory for analysis of air, water and waste water samples. Ambient air quality is being monitored regularly at identified locations (03 nos. AAQM stations). Stack & ambient air quality monitoring reports are being regularly submitted to concern authority. Ambient air quality monitoring report for the period of April'16 to September'16 is enclosed as Annexure I.</p>
2 (xii)	Necessary leakage detection devices with early warning system must be provided at strategic locations.	<ul style="list-style-type: none"> Complied.
2 (xiii)	Stand by DG sets must be provided to ensure uninterrupted power supply to the pump house and the fire fighting system.	<ul style="list-style-type: none"> Complied.
2 (xiv)	Third party inspection should be ensured during construction and operational phases with adequate insurance cover. The project authorities should confirm on regular intervals of six months to the Ministry about the implementation of the suggested safeguard measures and the data/report should be open for inspection by Team which would be constituted by the Ministry, if found necessary.	<ul style="list-style-type: none"> Complied. <p>The annual maintenance contract has been given to third party for inspection, maintenance & control of the fire protection systems. Third party safety audit is also being carried out regularly.</p>
2 (xv)	Full support should be extended to the Officers of the Ministry of Environment & Forests Regional Office at Bhopal during inspection of the project for monitoring purposes by the project proponents by furnishing full details and action plans including action taken report on mitigative measures.	<ul style="list-style-type: none"> Complied. <p>Full support and co-operation is being extended during the visit of officer 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.</p>
2 (xvi)	Adequate funding provisions, year wise and item wise, must be made for implementation of the above mentioned safeguard measures.	<ul style="list-style-type: none"> Complied. <p>Details of capital and recurring expenditure for environmental protection measures are enclosed as Annexure II.</p>
2 (xvii)	No other POL product save Furnace Oil shall be allowed to be stored / handled at the facility being created.	<ul style="list-style-type: none"> Point noted & complied.
2 (xviii)	The project authorities would ensure	<ul style="list-style-type: none"> Point noted & complied.

**Compliance Status Environmental Clearance (MoST) for Storage and Handling of
Furnace Oil at BCT Muldwarka
(Issued by MoST vide letter no. PD/26017/4/98-PDZ (CRZ) dated 13/07/1998)**

	that safety regulations and guidelines issued by Oil Safety Directorate in the Govt. of India, Ministry of Petroleum and Natural Gas are implemented.	
2 (xix)	The clearance of the Chief Controller of Explosives (CCO&E) shall be obtained before commissioning of the facilities.	<ul style="list-style-type: none"> Complied. While commissioning of project necessary permissions have been obtained from Explosive Department, Nagpur.
2 (xx)	The promoters shall ensure that no project related activity shall be undertaken within 10 Kms. linear distance from the outer periphery of the Gir Wildlife Sanctuary.	<ul style="list-style-type: none"> Point Noted & Complied.
3	In case of any deviation or alteration in the project including the implementing agency, a fresh reference should be made imposition of new ones for ensuring environmental protection. The project authorities would be responsible for implementing the above suggested safeguard measures.	<ul style="list-style-type: none"> Point noted and complied.
4	The Ministry reserves the right to revoke clearance, if the conditions stipulated are not implemented to the satisfaction of the Ministry.	<ul style="list-style-type: none"> Point noted.
5	These stipulations would be enforced among others under the provisions of water (prevention and pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the public Liability (Insurance) Act, 1991 along with their amendments and rules.	<ul style="list-style-type: none"> Point noted.

**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

S No.	Condition	Compliance Status
A. Specific Conditions:		
(i)	All the conditions and measures stipulated by the Gujarat Pollution Control Board vide their letter No. PCCCA/JNG-27/31529, dated 05.11.2003 shall be strictly implemented.	<ul style="list-style-type: none"> Yes, we are complying with all the stipulation made by GPCB.
(ii)	Mangrove plantation shall be undertaken in 100 ha in consultation with the Gujarat Forest Department in an identified new site. The project proponent shall earmark adequate fund for the purpose and formulate a plan for undertaking the mangrove afforestation at the site. A detailed plan along with the budget shall be provided to this Ministry within 3 months from the date of receipt of this letter.	<ul style="list-style-type: none"> Complied. Mangrove plantation has been carried out in 100 hectares area at village - Karanj, Taluka - Olpad, District -Surat. Gujarat Ecology Commission (GEC), Gandhinagar is implementing agency for the mangrove plantation project. Plantation has been completed in 100 ha. Area. Status report of the mangroves plantation has been already submitted to MoEF vide letter no. ACL/EMD/F-16/2010/55921 dated 25.12.2010. Photographs of mangroves plantation has been submitted to your good office vide our submission dated 30.06.2012 vide letter no.ACL/EMD/F-16/227/65953.
(iii)	It shall be ensured that the project activities have no impact on the fishing and movement of local fishermen communities.	<ul style="list-style-type: none"> There is no negative impact on fishing community. Fisherman also benefited due to having 800 meters break water, which helps fisherman's for boat movements.
(iv)	The project proponent shall undertake social up-liftment measures in the abutting villages by providing necessary infrastructure such as drinking water, repair of roads etc.	<ul style="list-style-type: none"> As a part of our corporate social responsibility policy, Ambuja Cement Foundation (ACF) is working in nearby villages for social up-liftment of surrounding community. A detail about ACF & community development work done by ACF in surrounding areas is enclosed as Annexure A.
(v)	It shall be ensured that during handling, transportation, storage there shall be no dust generated/spillages. The entire system of handling cement within the port complex shall be covered. Water spray systems shall be installed at appropriate locations where there could be possibility of fugitive dust emission.	<ul style="list-style-type: none"> Transportation of cement is being done in well designed totally closed cement bulkers. Coal and other raw materials are being transported to cement plant through covered tippers. Photographs are enclosed as Annexure B. Whereas at all the material transverse point efficient bag filters have been installed. Regular water sprinkling is being done in coal handling

**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

		areas, Photographs are enclosed as Annexure C . 01 no. of mechanized sweeping machine has been deployed for regular cleaning of the port area.
(vi)	Arrangement for treatment of liquid effluents shall be made so as to ensure that the untreated effluents are not allowed to be discharged into the sea/marine water.	<ul style="list-style-type: none"> No industrial liquid effluents are generated from plant premises. Only negligible amount of domestic sewage generated, which is being disposed off through septic tank.
(vii)	All constructions, handling and storage of products in the Coastal Regulation Zone area shall be undertaken in accordance with the Coastal Regulation Zone area.	<ul style="list-style-type: none"> Point noted and being complied.
(viii)	No other products other than the cement and non-hazardous raw material required for manufacture of cement shall be handled, stored or transported in the Coastal Regulation Zone area.	<ul style="list-style-type: none"> Point noted and being complied.
B. General Conditions:		
(i)	A separate Environmental Management Cell with suitably qualified staff to carry out various environment related functions shall be set up under the charge of Senior Executive who will report directly to the Chief Executive of the Company.	<ul style="list-style-type: none"> A well established Environmental Management Division (EMD) with suitable qualified personnel is existing. Head of environmental management cell directly report to the Works Head of the organization. EMD organization chart is enclosed as Annexure D.
(ii)	The project will be monitored by this Ministry's Regional Office at Bhopal. Full support shall be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during the inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<ul style="list-style-type: none"> Point noted. Full support and co-operation is being extended during the visit of officer 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.
(iii)	In case of deviation or alteration in the project including the implementing agencies, a fresh reference shall be made to this ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.	<ul style="list-style-type: none"> Point Noted & being followed.

**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

(iv)	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	<ul style="list-style-type: none"> Point Noted.
(v)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	<ul style="list-style-type: none"> Point noted, subjected to applicability and validity of condition, if any.
(vi)	A copy of clearance letter shall be marked to the concerned Panchayat/Local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<ul style="list-style-type: none"> A copy of clearance letter has been marked to concern Panchayat/Local NGO.
(vii)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	<ul style="list-style-type: none"> GPCB is the concern authority for the same.
(viii)	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forest at http://www.envfor.nic.in . The advertisement shall be made within 7 days from the date of issue of the clearance letter and copy of the same shall be forwarded to the Regional Office of this Ministry at Bhopal.	<ul style="list-style-type: none"> Advertisement has been published in local newspapers. Copy of advertisement has been already submitted to MoEF vide our submission on 25.12.2010 vide letter no.ACL/EMD/F-16/2010/55921.
(ix)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure 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"> Point noted.
(x)	Separate clearance shall be obtained by project proponent for handling and storage of these chemicals.	<ul style="list-style-type: none"> There is no handling of any chemicals. Hence not applicable at present.

**Compliance status of CRZ Clearance issued to Bulk Cement Terminal, Muldwarka
Vide MoEF Letter No. 11-73/2007-IA-III Dated 4th July, 2008**

(xi)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act.	<ul style="list-style-type: none"> Point Noted.
5	The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Chemicals (Manufacturing, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended subsequently and the Public Liability Insurance Act, 1991 and the Rules made there under from time to time. The project proponents shall also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat State and the Supreme Court's order dated 18th April, 1996 in the Writ petition No. 664 of 1993 to the extent the same are applicable to this proposal.	<ul style="list-style-type: none"> Point Noted.

Ambuja Cement Foundation - Ambujanagar

Details for programme wise expenditure from Oct. 2016 to march 2017

Annexure-A

(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 Development	32.77	-	7.89	-	-	40.66
	B .Drinking Water Programme	5.69	-	12.59	12.50	51.05	81.83
	c. Salinity Prevention (KVV 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

Tippers duly covered through hydraulic device



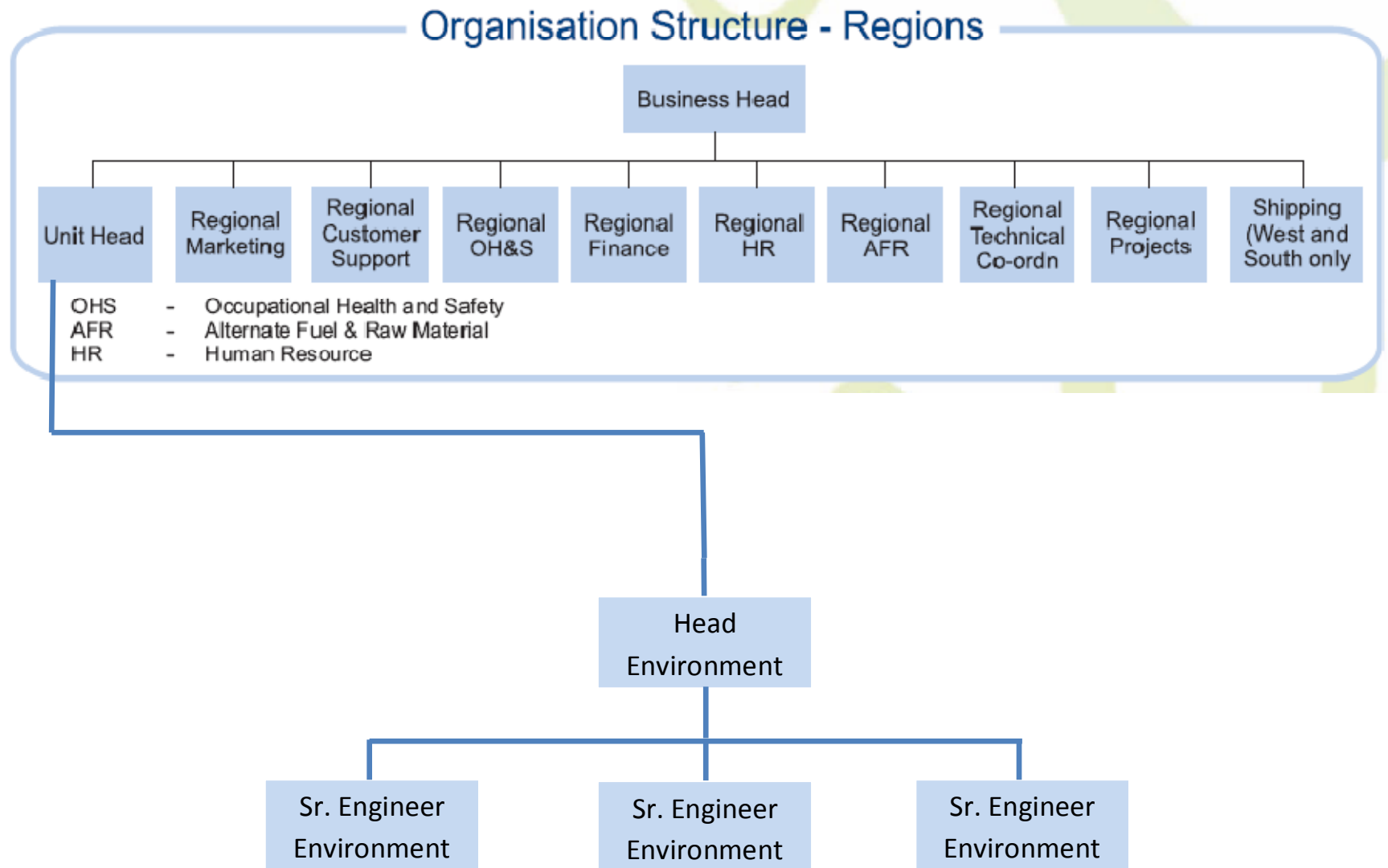
Cement Bulklers to transport cement from Plant to BCT Muldwarka



Water Sprinkling in Coal handling Area at BCT



Annexure D [ORGANISATION CHART]



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

Month	Average Ambient Air Quality Monitoring Stations											
	ADM Building				At Loading Point				Muldwarka Village			
	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
Oct-16	31.75	53.20	11.80	15.49	32.38	54.26	12.26	15.78	25.75	49.05	11.59	15.45
Nov-16	29.40	50.85	11.60	15.69	30.70	51.75	12.13	15.99	26.50	46.26	11.57	15.51
Dec-16	29.75	52.11	11.68	15.46	30.25	52.96	12.16	15.68	27.13	48.29	11.79	15.65
Jan-17	30.63	52.30	11.95	15.89	32.13	54.33	12.61	16.21	26.13	47.34	11.96	15.76
Feb-17	28.88	50.00	11.71	15.63	30.25	51.90	12.24	16.11	24.00	45.55	11.40	15.36
Mar-17	27.50	48.76	12.05	16.18	29.70	50.74	12.17	16.03	23.20	44.95	11.55	15.52
Minimum	27.50	48.76	11.60	15.46	29.70	50.74	12.13	15.68	23.20	44.95	11.40	15.36
Maximum	31.75	53.20	12.05	16.18	32.38	54.33	12.61	16.21	27.13	49.05	11.96	15.76
Average	29.65	51.20	11.80	15.72	30.90	52.66	12.26	15.97	25.45	46.91	11.64	15.54

(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	: 1.16 Lakh
(2) Manpower Cost *	: 15.93 Lakh
(3) House Keeping	: 63.97 Lakh
(4) Maintenance of Pollution Control Equipments	: 6.38 Lakh
(5) Other Env. Protection (Environmental Monitoring)	: 4.00 Lakh
(6) Environment Awareness *	: 0.09 Lakh

Total : Rs. 91.53 Lakh

*Expenditures are common for all plants & mines at Ambujanagar.

Annexure - II

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 April'16 to September'16. Programme wise Expenditure Details is as below:

Ambuja Cement Foundation - Ambujanagar							
Details for programme wise expenditure 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 Development	32.77	-	7.89	-	-	40.66
	B .Drinking Water Programme	5.69	-	12.59	12.50	51.05	81.83
	c. Salinity Prevention (KVV III)	11.28	-	43.90	66.82	59.10	181.10
2	Agriculture Development(Farm Forestry & Afforestation)	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