

MCW / EMD /12 / 2019/ 51

May 29, 2019

To,
Ministry of Environment & Forest & CC
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Kind Attn: - **Additional Director**

Sub : Submission of Half yearly monitoring report for the period of **October 2018 to March 2019** of M/s Ambuja Cements Ltd. (Unit: Maratha Cement Works, Upparwahi), Chandrapur (Maharashtra)

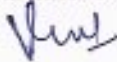
Ref: EC No. J-11015/400/2006 – IA – II (M), Dtd.29.06.2007

Dear Sir,

This has with reference to the above referred EC & the subject matter; we are submitting herewith six monthly compliance report (for the Period of October 2018 to March 2019) for the various conditions stipulated vide above referred EC for our Captive Limestone Mine (ML- II)

We hope that you will find this information in order please.

For, Ambuja Cements Ltd.
(Unit- Maratha Cement Works)



(Dr. Vinod Mishra)
Dy. General Manager –Environment

Encl :- a/a

- CC: 1. Central Pollution Control Board
Parivesh Bhawan,
Opp. VMC Ward Office No. 10,
Subhanpura, Vadodara
Gujarat-390 023
2. The Member Secretary
Maharashtra Pollution Control Board
Kalpataru Points, 4th Floor,
Matunga Scheme, Road No.8
Opp. Sion Circle, Sion East
Mumbai – 400 022
3. Regional Officer,
Maharashtra Pollution Control Board,
Udyog Bhawan, 1st Floor
Railway Station Road,
Chandrapur – 442401 (M.S.)

Ambuja Cements Ltd.

(Unit : Maratha Cement Works)

At & Po – Upparwahi – 442 908, Taluka – Korpana, Distt – Chandrapur (M. S.)

Tel. : 07173 – 240015-20. Fax : 07173 – 240008 – 9

Regd. Office : P. O. Ambujanagar – 362 715, Taluka – Kodinar, Distt – Gir Somnath (Gujarat)

CIN No: L26942GJ1981PLC004717 Website : www.ambujacement.com

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**COMPLIANCE STATUS OF MoEFCC EC CONDITIONS OF
2.0 MILLION TON / ANNUM LIME STONE MINES AND 0.2 TON /ANNUM SHALE (ML- II)**

Period from 01.04.2018 to 30.09.2018

(EC No. J-11015/400/2006 – IA – I I (M), 29.06.2007)

Sr. No.	Condition	Status/Report
A.	Special Condition	
i.	Topsoil, should be stacked properly with proper slope at ear marked site (s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.	Topsoil stacked properly with proper slope at ear marked site and is being used for reclamation and rehabilitation of mined out area. For the period from 01.10.2018 to 31.03.2019, 122049 m ³ of Top soil has been generated & till date 604627 m ³ of Top soil generated & will be utilized for reclamation and rehabilitation of mined out area. The details are enclosed as Annexure – 1 .
ii.	External OB dumps and other wastes should be stacked at earmarked sites only and should not be kept active for long period till its use for backfilling. Toe walls around the waste dumps shall be made to ensure and to prevent erosion and surface runoff. The total height of the dumps shall not exceed 30 m, each stage should preferably be of 10 m. Overall slope of the dump shall not exceed 28°.The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests on six monthly basis.	External OB dumps and other wastes are stacked properly and OB dumps are vegetated to prevent erosion and surface runoff. The details are enclosed as Annexure – 1 . Toe walls around the waste dumps have been made to ensure and to prevent erosion and surface runoff. The total height of the dumps is less than 30 m, each stage is of 10 m. Overall slope of the dump is less than 28°.The OB dumps have been scientifically vegetated with suitable native species to prevent erosion and surface run off.
iii.	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. 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.	Catch drains and siltation ponds constructed and the collected water used for watering mine roads and green belt development. The details are enclosed as Annexure – 2 . The details of Peripheral bunds, Check dams, Siltation ponds & Garland drains are enclosed as Annexure – 3 .
iv.	Garland drain (size, gradient and length) shall be constructed for both mine pit and sump capacity	Garland drain of appropriate size and capacity has been constructed along with

	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 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.	Siltation pit all along the periphery of the mines. Photographs attached in Annexure – 2 . The details of Peripheral bunds, Check dams, Siltation ponds & Garland drains are enclosed as Annexure – 3 .
v.	Plantation shall be raised in 226.84ha of area along the mine lease area including OB dumps which will be reclaimed by green belt / afforestation in consultation with the local DFO / Agriculture Department around mine lease area etc. The density of the trees should be around 2500 plants per ha.	Complied with, Limestone mine is surrounded with other existing mining leases. Till date Around 355736 trees have been planted in the total mining lease area. The density of plantation is 2546 plant/Ha. The details are enclosed as Annexure – 4, 1 & 2 .
vi.	Conservation plan for engendered fauna, if any in consultation with State Forest Department/CWLW for implementation.	We have consulted State Forest department & there is no engendered fauna in this area.
vii.	Measures shall be taken to provide chain linked fencing around the mine lease to safe guard from any injury to the wildlife.	Noted and Compiled with.
viii.	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.	MCW has developed rain water harvesting pits of capacity around 714838 m ³ for ground water augmentation (Photographs attached as Annexure 5). Our CSR wing ACF has constructed 40 No's of Check Dams, 21 No's of Farm Ponds & 3 No's of RRWH structures in the nearby area for rain water harvesting. The details of CSR work carried out by ACF enclosed as Annexure – 6 .
ix.	Drilling and blasting shall be by dust extractors and wet drilling.	We have 3 nos of Atlas Copco drill machines which are fitted not only with wet drilling system but dust extractor also. We are doing controlled blasting by using nonel as Down the Hole as well as trunk line delay connectors. Photographs are attached as an Annexure - 2 .
x.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers during the mining operation. The monitoring should be carried out two times in a year - pre-monsoon (April-May), post-monsoon (November) and the data thus collected may be sent regularly to MOEF, Central Ground Water	Groundwater level and quality regularly monitored and report submitted to CGWB and MoEF. A copy of latest report submitted enclosed as Annexure – 7 .

	Authority and Regional Director Central Ground water Board.	
xi.	Existing ecological status of the project area shall be conserved and protected. The project proponent should take all possible precautionary measures during mining operation for conservation and protection of endangered fauna (Schedule-I), if any, spotted in the project area. Action plans for the same shall be prepared in consultation with wildlife department along with allocation of funds for this purpose and shall be submitted to R.O of the Ministry at Bhopal	All necessary measures are being taken for protection of ecological status of the mining area as per the EIA & EMP. There are no endangered fauna & flora (Schedule -I) in the project area.
xii.	Permission from the competent authority should be obtained for drawl of ground water if any, required for the project.	Permission obtained from competent authority for withdrawals of ground water. We have been accorded water drawl permission from CGWB vide permission no. CGWA/IND/Proj/2015-68-R dated 14.05.2015 which was valid upto 14.05.2018. We have applied for renewal vide our letter no. MCW/EMD/CGWA/2018/616 Dated: 24.03.2018.
xiii.	Suitable rainwater harvesting measures on long-term basis shall be planned and implemented in consultation with Regional Director, CGWB.	MCW has developed rain water harvesting pits of capacity around 714838 m ³ for ground water augmentation (Photographs attached as Annexure 5). Our CSR wing ACF has constructed 40 No's of Check Dams, 21 No's of Farm Ponds & 3 No's of RRWH structures in the nearby area for rain water harvesting.
xiv.	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and mineral separation plant wastewater.	We have installed two no's of STP in colony, each of 500 m ³ /d capacity and treated water is used in plant for cooling purpose. ETP also installed for mines workshop and treated water is recycled back again and there is no discharge from the system. The details are enclosed as Annexure - 8 .
xv.	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Noted.
B. General Condition		
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	Noted.

ii.	No change in the calendar plan including excavation, quantum of mineral limestone ore and waste shall be made.	Noted.
iii.	Conservation measures for protection of flora and Fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.	All necessary measures are being taken for protection of ecological status of the mining area as per the EIA/EMP.
iv.	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, 502, NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	AAQMS established with approval of MPCB and regular monitoring being done and reports are submitted regularly to MPCB.
v.	Data on ambient air quality (RPM, SPM, 502, NO _x) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.	Ambient Air Quality data submitted at regular intervals to the MPCB & Ministry. The details are enclosed as Annexure – 9 . Last report submitted on 27.11.2018.
vi.	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	To control fugitive emission we are using Drill machine with inbuilt dust extraction system. Regular water spraying on haul roads and crusher hopper to control the fugitive dust. The details are enclosed as Annexure – 2 & 10 . The fugitive emission monitoring report enclosed as Annexure – 3 .
vii.	Measures shall be taken for control of noise levels in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with earplugs / muffs.	We have done massive plantation around the Mine areas. The details are enclosed as Annexure – 4 & 2 . Regular checking and maintenance carried out for all the heavy mines machineries. We have adopted state of the art blasting technology to control ground level vibration & noise. Necessary PPE's e.g ear plug/muffs have been provided to the persons working in the area. The ambient noise monitoring report enclosed as Annexure – 12 .
viii.	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Only small quantity of water is generated from mine workshop which is recycled back again after treatment through ETP and there is no discharge from the system. The details are enclosed as Annexure – 8 .

ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Safety & Environment departments are imparting training program on regular basis to all the workers for the appropriate use of PPE's. PPE's have been provided to all workmen.
x.	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed	Occupational health surveillance of all employees and workers is being done at regular intervals as per the guidelines & records are maintained.
xi.	A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	We have established Environment Management Department (EMD) having multi-disciplinary team of professionals and technical staff with vast experience headed by Dy. General Manager - Environment who reports directly to the Plant head.
xii.	The project authorities shall 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.	Complied, The project has been financed through the internal accruals and the same has been approved on April 2007.
xiii.	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.	Noted and Complied.
xiv.	The project authorities shall 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.	Complied, The project has been financed through the internal accruals and the same has been approved on April 2007.
xv.	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Noted
xvi.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied off.
xvii.	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's Office for 30 days.	Complied off.

xviii.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.	Complied off.
5.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
6.	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.	Noted.
7.	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.	Noted.

Top soil Conservation And Over burden dump site stabilization

Top soil of mine out area collected stacked for further utilization of topsoil for slope stabilization.



Special Initiatives has been taken for top soil conservation and over burden dump stabilization. Overburden dump of limestone mines has been vegetated by covering with topsoil and tree plantation. The overburden dump has been covered with coconut fibre blanket which helps to bind the soil for plantation.



Dump Stabilization activity under process



Stabilized Dump slope

MCW is having ROC F9 drill machine which has inbuilt dust extractor system



Drilling machine with in built Dust extraction system



Garland drain constructed around dumps



Plantation around ML area

Details of Peripheral bunds, Check dams, Siltation ponds & Garland drains

As on 31st March 2019

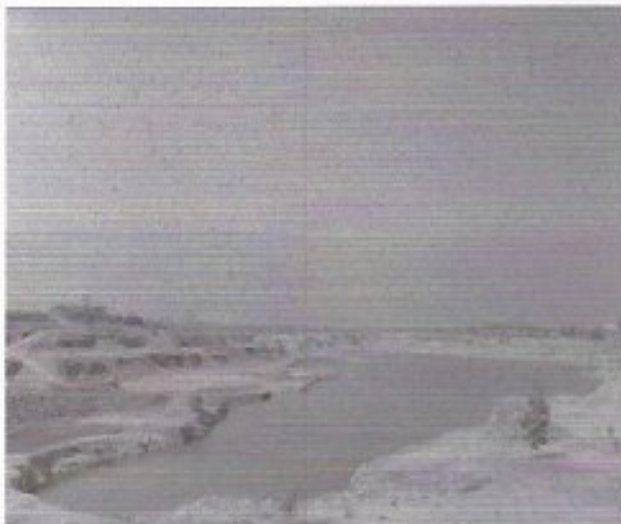
ML - II (Capacity - 2.0 MTPA Limestone & 0.2 MTPA Shale) 880.31Ha.			
Bund(Berm)	7865.00M		
	Garland drain in meter	Siltation tank	
Lakhmapur	930		
Near crusher dump	651		
Near ANFO top soil	440	20*15*2.00	300.00 sq.meter, 600.00 cub. Meter
Near ANFO Waste dump	497	24*15*1.80	360.00 sq. meter, 648.00 cub. Meter
Waste dump towards north side	1035	28*13*2.00	364.00 sq. meter, 728.00 cub. Meter
		20*10*2.00	200.00 sq. meter, 400.00 cub. meter
Sub grade dump north side	1016	20*12*2.00	240.00 sq.meter, 480.00 cub. meter
Total	4569		
Construction of retaining wall	100.00 meter	100*1*1	

Tree Plantation details as on March 2019

Sr. No.	Location	YEAR OF PLANTATION								Total plantation	Area in Ha.
		Upto 2012	2013	2014	2015	2016	2017	2018			
1	Plant	46872	500	225	0	0	0	0	47597	16.25	
	Infilling	176	500		316		673	0	1665		
2	Colony	43998	1400	4500	242	0	0	0	50140	19.076	
	Infilling	1170	100						1270		
3	Mines	277204	10500	12600	9000	6500	15632	17300	348736		
	Infilling	18500	1000	2000	800		400	2000	24700	139.74	
	Jatropha plantation	7000							7000		
4	App. Road / transportnagar	3565					63	570	4198	7 km	
		0							0		
5	Avenue plantation	5370	1200			0	0	0	6570	5 KM	
	Infilling	450							450		
6	Other plantation in villages	41391	441		302	9500	2575	2300	56509	21.57	
	Total plantation Nos.	445696	15,641	19,325	10,660	16,000	19,343	22,170	5,48,835		

Rainwater Harvesting

We are using excavated mines pit for rainwater storage. We have increased our rainwater harvesting capacity around 714838 M³, which is being used in plant for various purposes. We have made rainwater harvesting pits in plant premises and in colony area having capacity of 36000 and 27840 m³ respectively. We have also done rooftop water harvesting in colony area having rainwater harvesting potential around 1550 m³.



Ambuja Cement Foundation (ACF)
SIX MONTHLY PROGRESS REPORT ON ACF CSR WORK
(OCTOBER 2018 TO MARCH 2019)



Agro based livelihood program (ABLP)

ACF is working extensively in the area of agro-based livelihood generation among rural communities in Chandrapur district of Maharashtra. Our work bridges the gap between technology and farming, empowering farmers to adopt practices that are both sustainable and profitable in the long run. Our work has found support through partnership with various likeminded organisations, BCI, NABARD. We also collaborate with CICR-Nagpur and encourage scientists to share their knowledge and best practices with the community.

ACF's agro-based livelihood programme is implemented through following approach:

- A. Better Cotton Initiative (BCI)
- B. Better crop management initiative (BCMI)
- C. Aquaculture (Fisheries)
- D. Livestock Development (LSD)
- E. Institute of Farmer Collectives (IFC)

Ambuja Cement Foundation (ACF)

A. Better Cotton Initiative (BCI):

ACF, Chandrapur working with BCI project since 2009 in adjoining village of Maratha Cement Work, from the year 2012-13 extend area of BCI under BCFT program for 5 year, current year under BCI GIF 2018-19 ACF- Chandrapur covering 49238 farmers with 1399 learning groups in 441 Villages of Rajura, Jiwati, Korpana, Bhadrawati, Chimur, Chandrapur and Warora Blocks of Chandrapur district.

Year wise expansion of the program:

Year	2010-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	Plan 18-19
Villages	11	5	14	26	46	90	90	216	441
Farmer	304	483	1241	1980	4055	8224	8801	22009	49238
Area (Ha.)	246.50	1207.80	2529	4675.6	10932	21959	22761	48200	107267

Objectives:

- To demonstrate the inherent benefits of Better Cotton production, particularly the financial profitability for farmers.
- To reduce the impact of fertilizer and pesticide use on human and environmental health.
- To improve soil health and biodiversity.
- To promote Decent Work for farming communities and cotton farm workers.
- To facilitate global knowledge exchange on more sustainable cotton production.
- To increase the traceability along the cotton supply chain.

B) Better crop Management Initiative (BCMI):-

The project area has cotton based cropping pattern along with cotton farmer are growing soybean, wheat and pulses as well as paddy is slightly growing by farmers in the few villages. The issues observed in need assessment regarding cultivation of secondary crops like soybean, wheat, paddy and pulses are gradual decline of yield, varietal and seed replacement rate is very low, Lack of adoption of improved cultivation practices mainly in secondary crops, middleman exploitation in marketing due to no market linkages, and cotton based cropping pattern resulted low crop diversification in the area. Considering with mentioned issues ACF, Chandrapur decided to work on ICM within the following Objectives.

Objectives of BCMI:-

- To enhance the productivity of secondary crops of area (Soybean, wheat and pulses)
- To increase adoption of diversified cropping pattern.

Ambuja Cement Foundation (ACF)

- To facilitate government's schemes under ICM.
- To reduce the cultivation cost by introducing cost reduction technologies
- To promote judicious use of water
- Establish market and other needful linkages
-

C) Aquaculture (Fisheries)

In the vision of farmer long time sustainability ACF introduced Aquaculture (Fisheries cultivation) as well as improved practices of aquaculture which is recommended by concern fisheries department.

Objectives of Aquaculture:-

- To develop sustainable source of livelihood through fisheries cultivation.
- Provide and aware about improved practices of aquaculture.
- Engagement of other family member in their own farm.
- Establish market and other needful linkages within farmer and buyer.

D) Livestock Development (LSD):-

We have been organizing livestock management 26 villages providing support for Primary treatments for the animals in the villages as well as specialty camps for is being organized in collaboration with Animal husbandry Dept. Under these camps many activities are performed such as vaccination, health check up, treatment, Infertility, De-worming, castration, and Artificial Insemination etc.

E) Institute of Farmer Collectives:-

Ambuja Cement Foundation (ACF) works closely with farmers through Agro based Livelihoods Programme. This closeness has helped ACF to deeply understand the problems faced by farmers in this region. Problems can be summarized into unavailability of agricultural credit, inadequate and untimely supply & poor quality of agri-inputs, lack of scientific and technological knowhow regarding different agricultural practices and lack of remunerative prices for agricultural produce. This has led to the formation of *Gadchandur*

Farmer Producer Company Limited (GFPCI). GFPCI had established an Agri-Mall which is a one stop shop to provide quality agro-inputs to farmers at reasonable rate as well as perform the role of 'One Window' service provider for all the needs of farmers and tap the potential of rural markets by developing several agribusiness activities.

For that purpose to create sustainable model of farmer collectives ACF formed 46 *krishi Vikas samittee* in 46 villages and this year we initiate farmer self help group for saving their own money and

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all groups linked with GFPCL to diminishing the dependency of agri shop owner and village level moneylenders.

Objective of IFC:-

- Federate farmer in groups and make independent.
- To diminishing the dependency of moneylender.
- Collective purchasing of agri input as well as selling.
- Link with GFPCL.

Output of capacity building and farmers support activities from Oct-18 to March 19

Sr. No.	Particulars	No. of activities	No. of Beneficiaries
A	Better Cotton Initiative		
1	Staff Training	06	11
2	Field Facilitator Training	36	81
4	Training of Lead Farmer	12	1120
5	Farmer Training on agronomical Aspect including one Agri expo	2798	31000
6	Women Training & Women farmers melava	235	8206
7	Worker Training	190	3200
B	Better Crop Management Initiative		
1	Farmer Training	70	900
2	Field day	20	1900
3	Organised demonstration	469	469
C	Aquaculture (Fisheries)		
1	Promotion of Fisheries	1	22
D	Livestock Development		
1	Animal Health camp	1	386

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2	Promotion of Breeding Buck	0	0
3	Exposure Visit	1	22
E	Institute of farmer Collectives		
1	BOD meeting	7	10

Snapshot of the ABLP



Ambuja Cement Foundation (ACF)

Water Resource Management program – Oct 2018 to March 2019

In this year water resource management program done for mainly increasing ground water table and irrigation purpose but also work for drinking water purpose. Various types of water recharge structure work under this program like Check dam construction, Repairing and renovation of Check dam, Watershed activity like Farm pond, Farm bunding, Water absorption trench, loose boulder structures etc. Total 1230 People benefited from this program.

1. Watershed activity :

- Repairing of 3 CNB at Warzadi and Baleguda village.
- Nalla Deepening and widening 600 mtr
- Farm Bunding at Sonapur Gp Including Saleguda & Baleguda village – 160 ha
- Water Storage Capacity – 11200 Cum
- Area Under irrigation – 22.5 ha

2. Drinking water facility :

- Providing borewell at Kukudsath village
- House hold benefitted – 150 HHs

3. Micro irrigation :

ACF working on micro irrigation like sprinkler and drip. ACF support to farmers to installation of sprinkler and drip on the contribution of only 30% on sprinkler and 10% on drip by the ACF. This year 15 farmers are benefitted to Sprinkler installation.

4. Integrated water resource management program :

IWRM run with the Government of Maharashtra and done the work in last six month like farm bunding, Constriction of Check dam 3 no, Nalla Deepening and widening 3 km etc. After the completion we complete the billing procedure and follow up to the government for 55 % Share received. Rs 28 lakh amount received from the government of Maharashtra.



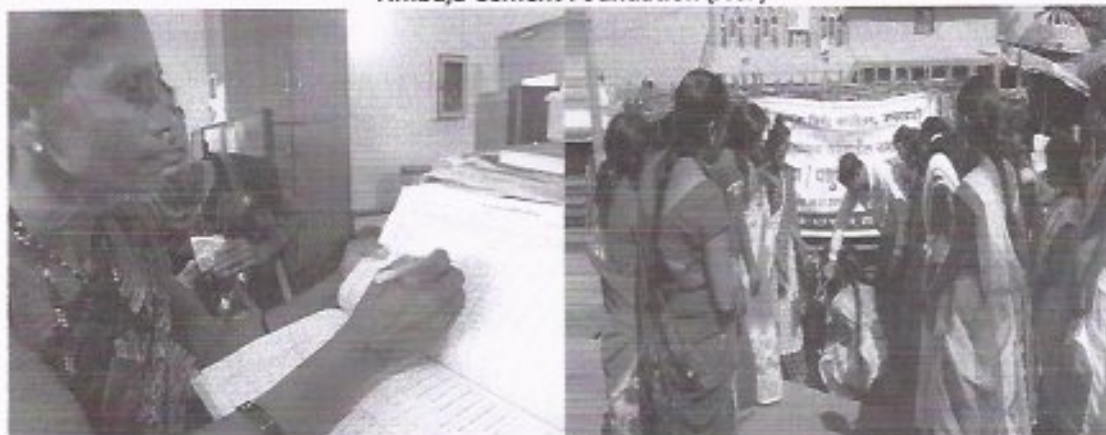
Ambuja Cement Foundation (ACF)

Women Empowerment Programme – Oct. 2018 to March 2019

Our women empowerment is one of the key initiatives of our women empowerment program. Empowering women through financial independence, growth of women education, growth of economic, Women and sanitation, Safe & scare life, Social & political level is the major objective of our program. As per our objective we have work with 159 women SHGs and we have doing the work with total 1806 women members as a financial literacy, bank linkages for free from money lenders, work for gender balance in community, work for political level as like women Gramsabha and women Sarpanch and member of panchayat Samitee, strengthen the gram sabha & increase women participation in women gram sabha. As of April to March 2019, ACF, Chandrapur work with 159 Self Help Groups, encompassing 1806 women in 45 villages with a collective saving base of Rs.95.20 complementing and supplementing the family incomes substantially. Continually we have done the work with Expert local bodies like banks, village GPs, Government agencies, NABARD (Panchayat Samiti, Zila Parishad, and Other non-government agencies) are help with to ensure long term sustainability of SHG's. Presently ACF run this program is own level but most of other organizations has participated for help to women SHG & federation. Exam Vidharbha Co-operative Marketing Federation, Nagpur (Sub branch Chandrapur), Indian Potash Ltd, Led Bank of India Chandrapur & SBI Branch, Gadchandur, SBI Bank work for customer service point (CSP), Bank of India, Upparwahi & Wansadi for high bank linkages.



Ambuja Cement Foundation (ACF)



The main activity of the SHGs is thrift and credit and as per need of SHG members. The SHGs are then trained in different vocations & linked with the banks to start micro enterprises either in group or individually based on their interest. After receiving the bank loan SHG members starting the own IG activities. In the month of Dec.2018, our 5 SHG members have started own business from Pradhan Mantri Mudra loan schemes. Our SHGs have engaged in enterprises like Goat Farming , Herbal medicine, *Sewaya making*, goatry, vegetable cultivation, Poultry units, Dalmil, Beauty parlar, paper plate making, Pickles making & others like canteen, Mess, Dress design, Ladies cloth canter, Masala making, bags making & Zunka bhakar Kendra, Mid-Day-Mil to School and Anganwadi etc. As earning and contributing members of the family they are now active player in family decisions, responsible inter loaning bodies and operating village institution in the development of their villages. Most of the SHGs have involved in village sanitation work under the **Community Led Sanitation project support from Gruh Finance Ltd.** Under the project our SHGs are engage in various activities as like motivation to house hold for construction of toilets & its use , village cleaning drive & safe drinking water.

In women empowerment program, ACF has promoted Ekata women federation for sustainability view. Ekata women federation has formed by ACF under society act 1960 in year 2009. When federation has formed only 13 SHGs joined with federation but now total 120 SHGs has joined with monthly Rs. 200 saving and now total 13.17 lacks total saving. Under the saving habits federation has promoted many types of support services for SHGs as like quality seed and fertilizers, Market analysis for SHG products, Loan for higher education and housekeeping, Loan for toilets construction

Work with Gruh Finance Ltd. Ahmedabad: A big support for construction of toilets from Gruh Finance Ltd. To Ekata women federation total amount of Rs.32 lacks. (2014-15 Rs.10.00, 2015-16 Rs.10.00 , during 2016-17 10.00 & 2018-19 –Rs.2 lacks) .From received amount total 513 (91 +259+130+ 46=526) toilets constructed and 22 was under in progress.

Program components:

Ambuja Cement Foundation (ACF)

Activity	Sub Total (April to Sept. 2018)		Cumulative (Sept 2018 to March 2019)		Cumulative (April 2018 to March 2019)	
	No. of activities	Total Participants	No. of activities	Total Participants	No. of activities	Total Participants
New SHGs	11 New SHGs has formed	148	16	187	27	335
Awariness sessions for new SHGs	13	442	58	1176	71	1618
Concept training for new SHG	7	222	10	213	17	435
Leadership Training	2	63	6	67	8	130
Gener Sensitization Training -2	2	59	4	112	6	171
Panchayat Raj awareness session (Hardona khu. Pimpalgaon & Piparda)	1	89	4	110	5	199
Internal Exposure visit for toilet construction work SHG members	2	48	2	65	4	113
Social activities through the SHGs	3	56	14	248	17	304
Entrepreneurship Promotion (EP)	2	29	2	44	4	73
Development of SHGs (Federation meeting)	16	1128	28	1650	44	2778
Development of SHGs (Cluster level meetings)	3	58	3	66	6	124

- **Capacity Building through the training and workshop : Objective :** 1) To build the capacity of village level literate and illiterate women and their families 2) Established linkages with bank and other microfinance institute for free form money lenders and increase their financial status 3) Increase their confidence for livelihood promotion 4) Established linkages with Block and District level for strong networking with government department.5) Maintain proper books and Accounts

Ambuja Cement Foundation (ACF)

for financial literacy 6) Women Pressure group for development and stop the illegal habits .7) To build the leadership quality and design making power. 8) Work for social aspects.

- **Livelihood Promotion : Objective :** 1) Women involvement in On farm and Non-farm activities for increase financial status 2) Linkages with banks for Pradhan Mantri Mudra loan 3) SHG loan 4) ICICI loan for house repairing and construction . 5) Business plan and start the small entrepreneur 6) Linkages with Bank under Pradhan Mantri Mudra Loan schemes 7) Risk assessment and development plan.
- **Pashusakhi Project : Objective** 1) Livestock development and IGA promotion 2) Goat management and treatment for livelihood promotion 3) Support for farming 4) Lifestyle management 5) Increase livelihood status 6) Established small entrepreneur 7) Decreases the Mortality of Goats and Poultry 8) Awareness among the villages or Pashupalak regarding Nutrition Food , Clean Water & Vaccine .
- **Eshakti Project under NABARD: Objective:** 1) Proper data entry and book keeping 2) Easy bank loan process 3) Good networking with NABARD and government agencies . 4) SHG members join to Social security (PMJJY , PMSJY, APY).
- **Haqdarshak Project : Objective :** 1) Increase awareness about government schemes 2) System of beneficiary form submission Project Objectives and Scope of Work
- Identification and training of 25 Haqdarshaks in Chandrapur, Maharashtra.
- Training and capacity building of the identified members of Foundation to guide the Haqdarshak and monitor their performance.
- Daily planning, training of Haqdarshak and monitoring of the plan
- Updation of the scheme information as per revision in the scheme guidelines announced by the government.
- Regular backend and platform maintenance support by HESPL.
- Details about activities since February 2018.
- Training content was focused on the mobile app usage, capacity building on specific schemes (as per community demand), filling application forms by themselves, increased number of application targets to be achieved month on month, tracking of application status, documenting benefits received and proof collection
- Haqdarshaks (HD) have been identified to master the application process and details of a particular scheme and then handhold other HDs ensuring collective learning and sharing.

Ambuja Cement Foundation (ACF)

- HDs were empowered and encourage in helping citizens and Gram Panchayats (GPs) in registering for different drives launched by the government from time to time. Some examples: registration for Animal husbandry scheme, ration card update drive etc.
- Along with it attempts were made to connect HDs with SHG members, federations, village-level Organizations, VLCs by conducting numerous meetings. In this phase efforts were also made to convert previous screenings to applications by reaching out to citizens;
- Results of these efforts are clearly visible in terms of number of screenings, number of applications, number of benefits received and number of village-level meetings conducted;
- A system of organizing HD meeting every fortnight was institutionalized. This helped in systematic planning of work and its review on a regular basis;
- Local ACF teams were all informed and updated about the work in the HESPL project. Fortnightly work plans were charted out in consultation with ACF team-nominated executives, team leader and other members for their inputs;
- MIS coordinators of ACF were trained to handle HESPL's OPSCO portal for tracking operation status and extracting relevant information to assess impact and progress;
- Continuous to and fro communication with HDs was ensured via channels like WhatSapp



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- Plantation & Safety awareness program:** ACF did not do the work with women for only financial sustainability but also do the work with social development & responsibilities of our society. SHG women have participated in plantation work, Safety related work at village level. They know very well this is for what? 'Safe & health life' Under social activities SHGs has involved many types of social program and they organized Savitribai Fule jayanti, Makarsankranti Programs & safety awareness program . The impact is 74 SHG members have purches Helmet for her husband and continues homering for use of safety kit on farm practice and use helmet when they drive.
- Ekata Women Federation :** In every month from April to Sept. 2018 , 16 mass level federation meeting and 11 cluster level meetings organized by ACF at cluster level & most of SHG leaders have participated in meeting for taken the designee & development work at village level . From April to Sept. 2018total 16 meetings held on ACF. In the meeting SHGs & Federation members have participated with their village women & they decided strategy of work, process of loaning, identified the IG activities at group or individual level. Women also discussed about construction of toilets for better women & her family life. Now SHG women have involved in toilets

Ambuja Cement Foundation (ACF)

construction work at Pimpalgaon, Isapur, Baleguda, Piparda & Hardonakhu. Manoliguda, Saleguda, Hirapur & Piparda village. Though the federation 5 types of support services provided to SHGs as like small loan for basic needs, loan for toilet construction under Gruh Finance Ltd., Seed and Fertilizers for stop the money lender issue and federation can do the work for girls education and social issues.



MCW/EMD/19/2019/49

May 27, 2019

To,

Ministry of Environment & Forest & CC
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Sub: Submission of Ground Water Level & Quality report

Ref: As per specific Condition of the following EC

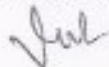
1. EC NO J-11015/399/2006-IA II(M) dtd 29.06.2007
2. EC NO J-11015/400/2006-IA II(M) dtd 29.06.2007
3. EC NO J-11016/11/2004-IA II(M) dtd 06.01.2005

Dear Sir,

Please find enclosed herewith the Pre monsoon season (May 2019) Ground Water Level & Quality data of surrounding area of Maratha Lime stone mines. This is as per the specific condition no (x) of above referred EC no 1 & 2 & (vii) of EC no 3.

We hope that you will find this information in order please.

For, Ambuja Cements Ltd.
(Unit: Maratha Cement Works.)



(Dr. Vinod Mishra)
Dy. General Manager (Environment)

CC: Member Secretary,
Central Ground Water Authority,
West Block 2, Wing 3 (Ground Floor),
R K Puram, Sector 1,
New Delhi 110066

Regional Director
Central Ground Water Board
N.S. Building, Civil Lines,
Nagpur-440001 (Maharashtra)

Ambuja Cements Ltd.
(Unit: Maratha Cement Works)
At & Po - Upparwahi - 442 908, Taluka - Korpana, Distt - Chandrapur (M. S.)
Tel. : 07173 - 240015-20. Fax : 07173 - 240008 - 9
Regd. Office : P. O. Ambujanagar - 362 715, Taluka - Kodinar, Distt - Gir Somnath (Gujarat)
CIN No. L26942GJ1981PLC004717 Website : www.ambujacement.com

Ground water Level Measurement Report

May 2019 (Pre-monsoon)

Sr. No.	Name of village	Location / Landmark of well	Location Code	Water Level (In Meter)
1	Panchgaon	Near Barikrao Atram House (Common Well)	VDW1	3.1
2	Bhendwi (Gereguda)	Sheikh Rajjak agricultural land (Personal well)	VDW2	5.3
3	Hirapur	Near Jaitu Meshram House (Common Well)	VDW3	3.1
4	Sonapur	Near Gram Panchayat (Common Well)	VDW4	11.9
5	Pandharpaoni	Near Laxshman Pendorer House (Common Well)	VDW5	12.6
6	Chandanwahi	Near Nanji Darekar House (Common Well)	VDW6	4.6
7	Pimpalgaon	Near Wasant Lohe (Private Well)	VDW7	8.2
8	Thutra	Near Bobade's House (Private Well)	VDW8	8.3
9	Upparwahi	Near Santosh Hanumante House (Common Well)	VDW9	5.5
10	Mangi (Big)	Near Mata Temple (Common Well)	VDW10	8.2
11	Mangi	Sawkar Well	VDW11	9.0
12	Hardona (Khurd)	Near Ramesh Zade house	VDW12	10.5
13	Gadchandur	Near Premchand Borkar House (Common Well)	VDW13	11.7

Piezometer well water Level Measurement Report

May 2019 (Pre-monsoon)

Sr. No.	Location	Co-ordinates (Latitude & Longitude)	Location Code	Water Level (In Meter)
1	Thutra	19.720990 N, 79.192074 E	PZ-1	4.1
2	Mines Site Office	19.705503 N, 79.212236 E	PZ-2	10.7
3	Magzine area	19.697453 N, 79.208725 E	PZ-3	20.3

Ambuja Cement Limited
(Unit :- Maratha Cement Works)

Summary of Drinking Water Analysis Report of Surrounding Village
May-19

Sr. No	Parameter	Unit	Perthgaon	Bandari (over village)	Hirapur	Sonapur	Pandharpur	Chandarnauli	Pimpelgaon	Thurna	Uppurwad	Mang (Raj)	Mang	Haridra (Khand)	Geochauli
1	pH		8.13	8.01	7.59	7.75	7.34	7.54	7.52	7.72	7.91	7.40	7.90	7.75	7.64
2	Total Dissolved solid	mg/lit	870.00	558.00	726.00	602.00	608.00	680.00	550.00	582.00	504.00	612.00	482.00	542.00	282.00
3	Total Alkalinity	mg/lit	422.20	268.70	484.10	316.00	312.90	388.40	262.25	197.40	284.00	368.50	287.70	319.20	142.80
4	Iron	mg/lit	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5	Fluoride	mg/lit	0.45	1.75	1.08	1.31	0.50	0.30	0.45	1.36	0.64	0.33	1.97	1.32	0.39
6	Chloride	mg/lit	119.04	28.98	66.24	37.26	79.70	75.67	35.66	82.81	36.23	68.31	40.37	33.12	16.56
7	Total Hardness	mg/lit	325.50	344.40	489.30	408.50	317.10	344.40	423.67	366.50	303.50	354.90	262.00	300.80	199.50
8	Sulphate	mg/lit	38.83	8.72	31.58	22.68	51.15	38.93	54.32	30.45	55.07	35.63	25.92	29.15	44.70

Sewage Water Reclamation Plant

We have installed SWRP (Sewage water recirculation plant) with concept of treating & 100% recycling of domestic sewage water. It is a regular practice at ACL to recycle 100% treated water for process usage. It reduces the burden on water supplying agencies and indicates our environmental commitment.



Ambuja Cements Ltd.,
(Unit: Maratha Cement Works)

Effluent Treatment Plant at Mines Workshop

We have installed ETP (Effluent Treatment plant) for treatment of Mines workshop waste water. The treated water is recycled back into the system.



Ambuja Cements Ltd.
 (Unit: - Maratha Cement Works, Upparwahi)
Air Quality Monitoring Results
For Captive Limestone Mines, Cement Plant and Captive Power Plant
Six Monthly Average Values of Ambient Air Quality
 (From 1st October 2018 To 31st March 2019)

Sr. No.	Location	Distance From Plant (km)	Direction w.r.t. Plant site	Ambient Air Quality Results ($\mu\text{g}/\text{m}^3$)			
				PM2.5	PM10	SO ₂	NO _x
1	House (L- Type)	0.5	E	18.93	51.71	6.63	18.35
2	Guest House (Near Bachelor Accommodation)	0.5	SE	25.19	51.98	10.05	25.07
3	L.S. Crusher	0.1	W	29.09	56.32	10.10	26.95
4	Near magazine Section	1.5	SW	18.54	48.30	7.05	18.73
5	Near Water Pond	2	NW	17.59	47.02	6.40	16.62

Note: - All the values are Monthly Average Values.

Water Sprinkling System

Water tankers have been engaged for sprinkling water to control the fugitive dust at Mines Haul roads. MCW has installed automatic dust suppression system at limestone & coal dump hoppers, stacker reclaimers, and at coal handling systems.



Ambuja Cements Ltd.,
(Unit: Maratha Cement Works)

New Water Tanker with Sprinkling System for Dust Suppression in Haul Roads, It uses 10% water less than conventional water tankers. Dumper converted into Water Sprinklers with fogging arrangement.



Ambuja Cements Ltd.
 (Unit: - Maratha Cement Works Upparwahi)
Fugitive Emission Monitoring Results

Six Monthly Average Values of Fugitive Emission Monitoring
 (From October - 2018 To March - 2019)

Sr.NO.	Location	SPM in ($\mu\text{g}/\text{M}^3$)	CPCB Standard ($\mu\text{g}/\text{M}^3$)
1	Limestone stockpile area	1060	5000
2	Near Mines Site Office	885	
3	Mines Haul Road	1994	
4	Near Limestone Crusher	1190	

Note :- All the Values are Monthly Average Values.

Ambuja Cements Ltd.
 (Unit: - Maratha Cement Works Upparwahi)
Noise Level Monitoring Results
For Capacity Lime Stone Mines, Cement Plant and Captive Power Plant
Monthly Values of Noise Level Monitoring
 (From 1st October 2018 To 31st March 2019)

Name of Location	Near Water Pond		Near Magazine Area		Near Crusher		Along Roadside		Colony Area	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Oct-18	50.4	49.7	47.0	46.3	70.1	68.2	51.6	50.2	43.7	42.2
Nov-18	57.3	55.1	55.9	54.2	57.3	56.6	56.1	54.4	59	54.1
Dec-18	56.8	55.4	55.2	54.7	58.9	57.6	55.7	54.2	57.4	55.6
Jan-19	57.3	56.3	54.8	53.5	59.4	58.2	56.5	55.5	56.6	55.4
Feb-19	57.9	56.6	55.2	53.7	59.6	57.8	56.1	55.0	56.1	55.3
Mar-19	56.7	56.2	55.3	53.0	59.4	57.9	55.7	54.8	56.3	55.7

Note: - All the Values are Monthly Average Values.