

MCW / EMD /12 / 2019/114

November 28, 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 **April 2019 to September 2019** of M/s Ambuja Cements Ltd. (Unit: Maratha Cement Works, Upparwahi), Chandrapur (Maharashtra)

Ref: **EC No. J-11016/11/2004 – IA – II (M), Dtd. 06.01.2005**

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 April 2019 to September 2019) for the various conditions stipulated vide above referred EC for our Captive Limestone Mine (ML- III)

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

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



(S. K Paneri)

Unit Head

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
0.5 MILLION TON / ANNUM LIME STONE MINES (ML- III)**

Period from 01.10.2018 to 31.03.2019

(EC No. J-11016/11/2004 – IA – II (M), 06.01.2005)

Sr. No.	Condition	Status/Report
A.	Special Condition	
(i)	Top soil shall be concurrently used for green belt development.	Stacked top soil is being used for greenbelt development and overburden stabilization. For the period from 01.04.2019 to 30.09.2019 NIL m ³ of Top soil has been generated & utilized for greenbelt & till date 99408 m ³ of Top soil generated & utilized for green belt development. The details are enclosed as Annexure – 1 .
(ii)	Peripheral bunds, check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from the mining operations. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained. Garland drain (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.	Complying. The Photographs are attached as Annexure – 2 . Peripheral bunds Checkdams and siltation ponds of appropriate size have been constructed to arrest silt & sediment flow from mining operations. The drains are desilted prior to the monsoon. The details of Peripheral bunds, Check dams, Siltation ponds & Garland drains are enclosed as Annexure – 3 .
(iii)	Drills should be wet operated or with dust extractors and controlled blasting should be practiced.	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 none as Down the Hole as well as trunk line delay connectors. Photographs are attached as Annexure -2 .
(iv)	Crusher should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, haulage roads, transfer points, etc	The existing crusher is having high efficiency bag filter and automatic dust suppression system at dump hopper. The details are enclosed as Annexure – 13 . The details of Bag filters enclosed as Annexure – 14 .

(v)	Plantation should also be raised along the roads, dump sites, etc covering an area of 10.90 ha. This includes a wide green belt along the periphery of the ML area, non mineralized area and along road side within the lease area by planting native plant species in consultation with local DFO / Agriculture Department. At least 2500 plant species/ha should be planted.	Complied with, Limestone mine is surrounded with other existing mining leases. Till date Around 371536 trees have been planted in the total mining lease area. The density of plantation is 2545 plant/Ha. The details are enclosed as Annexure – 4, 1 & 2.
(vi)	The excavated pit of an area of 17.73 ha shall be converted into an artificial water reservoir. Water harvesting measures shall commence from the 11 th year of mining operations. The higher benches of the void shall be terraced and plantation done to stabilize the slopes. Peripherals fencing shall be done along the excavated area.	The excavated pit of an area of 17.73 ha shall be converted into an artificial water reservoir as per the conceptual plan at the end of mine life. The details of rain water harvesting enclosed as Annexure – 5 & details of CSR work carried out by ACF enclosed as Annexure – 6.
(vii)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers at suitable locations in project area. The frequency of monitoring should be minimum four times a year – January, pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) seasons for ground water level and in May for quality. Data generated from ground water regime monitoring will be submitted to CGWB, Regional Office on an annual basis.	Groundwater level and quality is regularly monitored and report submitted to CGWB and MoEFCC. A copy of latest report submitted enclosed as Annexure – 7.
(viii)	A detailed mine closure plan should be submitted to MOEF five years in advance for approval.	Noted and will be Complied off.
(ix)	A Consent to operate should be obtained from the SPCB before commencing production	Consent to Operate obtained from MPCB Vide letter No. Format 1.0/BO/CAC-Cell/EIC No.CH-15/CAC- 10176 dated 07.10.2016 Valid upto 31.03.2021.
B. <u>General Condition</u>		
(i)	No change in technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Agreed.
(ii)	No change in the calendar plan including excavation, quantum of limestone, waste/OB dumps should be made.	Noted and being Complied.
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, NOX and SO ₂ . Location of the ambient air quality stations should be decided based on	AAQMS established in the core zone and regular monitoring being done. The details are enclosed as Annexure – 9.

	meteorological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	
(iv)	Data on environmental quality should be regularly submitted to the Ministry including its Regional office at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.	Complied with. The details are enclosed as Annexure – 15, 9 and 12 . Last report submitted on 28.05.2019.
(v)	Adequate measures for control of fugitive emissions should be undertaken such as water spraying arrangements on haul roads, loading and unloading points and transportation of minerals, etc. Fugitive dust emissions from all sources should be regularly monitored and data recorded properly.	To control fugitive emissions we are using Drill machine with inbuilt dust extractor system. Regular water spraying on haul roads and crusher hopper to control the fugitive dust. We have also provided permanent water sprinklers on mines roads. The details are enclosed as Annexure – 2 & 10 . The fugitive emission monitoring report is enclosed as Annexure – 11 .
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations. Operation of HEMM, etc. should be provided with ear plugs / 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 .
(vii)	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 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from the Workshop.	Only small quantity of water is generated from mine workshop which is recycled back again in the system after treatment in the ETP. No discharge from the system. Photographs are enclosed as Annexure – 8 .
(viii)	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. Occupational health surveillance programme of the workers should be undertaken periodically and corrective measures	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. Occupational health surveillance programme of the workers are undertaken

	taken, if required.	periodically and corrective measures taken as per requirement.								
(ix)	The data on environmental quality should be collected and analyzed either through an in-house environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analyzed through an approved laboratory under the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board.	We have deployed competent team for monitoring and sampling of data and analysis reports are submitted to MPCB/MoEFCC regularly. Also we have deployed MoEFCC NABL accredited 3 rd party to carry out the monitoring regularly.								
(x)	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.	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.								
(xi)	The funds earmarked for environmental protection measures should be kept in separate account and not diverted for any other purpose. Year wise expenditure shall be reported to the Ministry of Environment & Forests.	<p>Noted and being Complied. The year- wise expenses for last 3 years are as follows:</p> <table><tr><th>Year</th><th>Expenses (Rs. Lacs.)</th></tr><tr><td>2016-17</td><td>309.00</td></tr><tr><td>2017-18</td><td>226.93</td></tr><tr><td>2018-19</td><td>870.42*</td></tr></table> <p><i>Expenses inclusive of Cement Plant, CPP & Mines</i> *Recurring Environmental Expenditure of plant & CPP: Rs. 8,46,55,043 Recurring Environmental Expenditure of Mines: Rs. 23,86,970</p>	Year	Expenses (Rs. Lacs.)	2016-17	309.00	2017-18	226.93	2018-19	870.42*
Year	Expenses (Rs. Lacs.)									
2016-17	309.00									
2017-18	226.93									
2018-19	870.42*									
(xii)	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.	Complied, The project has been financed through the internal accruals and the same has been approved on April 2004.								
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated environmental 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.								
(xiv)	A copy of the clearance letter should be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied with.								

(xv)	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's /Tehsildar's Office for 30 days.	Noted.
(xvi)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned, within 7 days of issuance of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied with.
3.	The Ministry or any other competent authority may stipulate any further additional condition for environmental protection.	Noted.
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.	Noted.
5.	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	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 30th September 2019

ML - I (Capacity - 1.5 MTPA Limestone) 579.91Ha.

Bund(Berm)	6253.00M		
	Garland drain in meter		Siltation tank
		L*W*H	
South Teenguda side	208		
Top soil Dump Dewara	818	30*10*2.50	300.00 sq. meter, 750.00 cub meter
Teenguda dump	2024	70*25*4.50	2569.00 sq. meter, 11560.50 cub. Meter
Top soil Near teenguda dump	719	25*20*2.00	500.00 sq. meter, 1000.00 cub. Meter
Total	3769		
Construction of retaining wall	40.00 meter	40*1*1	

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	

ML - III (Capacity 0.56 MTPA Limestone) 49.00Ha.

Bund(Berm)	1243.00M	
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Combined details of three lease as on 30th September 2019

Bund(Berm)	15361.00 meter
Siltation tank	8 Nos.
Garland drain	8338.00 meter
Construction of retaining wall	140.00 meter

Tree Plantation details as on September 2019

Sr. No.	Location	YEAR OF PLANTATION								Total plantation	Area in Ha.
		Upto 2012	2013	2014	2015	2016	2017	2018	2019		
1	Plant	46872	500	225	0	0	0	0	0	47597	16.25
	Infiling	176	500		316		673	0	0	1665	
2	Colony	43998	1400	4500	242	0	0	0	0	50140	19.076
	Infiling	1170	100							1270	
3	Mines	277204	10500	12600	9000	6500	15632	18100	15000	364536	
	Infiling	18500	1000	2000	800		400	2000	4000	28700	145.97
	Jatropha plantation	7000								7000	
4	App. Road / transportnagar	3565					63	570		4198	7 km
		0								0	
5	Avenue plantation	5370	1200			0	0	0	0	6570	5 KM
	Infiling	450								450	
6	Other plantation in villages	41391	441		302	9500	2575	2300	0	56509	21.57
	Total plantation Nos.	445696	15,641	19,325	10,660	16,000	19,343	22,970	19,000	5,68,635.00	

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.



SIX MONTHLY PROGRESS REPORT ON ACF CSR WORK (APR 2019 TO SEP 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 organizations 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. Farmer Producer Company (FPO)



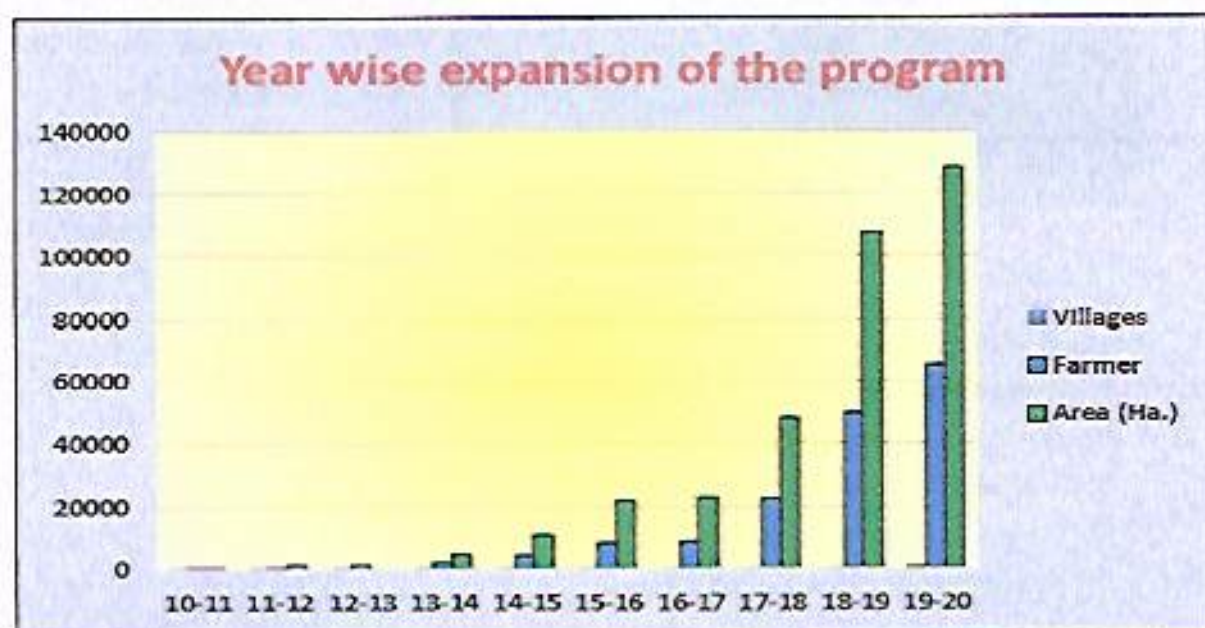
A. Better Cotton Initiative (BCI):

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 GIZ 2019-20 ACF-Chandrapur covering 64779 farmers with 1903 learning groups in 644 Villages of Chandrapur & Nagpur districts. Are Rajura,

Jiwati, Korpana, Bhadrawati, Chimur, Chandrapur, Warora Blocks of Chandrapur district and Hingna, Nagpur Gramin, Kalmeshwar, Saoner Blocks of Nagpur district.

Year wise expansion of the program:

Year	2010-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20
Villages	11	5	14	26	46	90	90	216	441	644
Farmer	304	483	1241	1980	4055	8224	8801	22009	49238	64779
Area (Ha.)	246.50	1207.80	2529	4675.6	10932	21959	22761	48200	107267	128195



Objectives:

- To demonstrate the inherent benefits of Better Cotton production, particularly the financial profitability for farmers engage in cotton cultivation.
- 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 trace ability along the cotton supply chain.
- To improve the water management practices through effective micro irrigation systems.

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 Vegetables is slightly growing by farmers in the few villages of Jiwati area. The issues observed in need assessment regarding cultivation of secondary crops like soybean, wheat, vegetables 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 inter cropping pattern.
- 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):-



up, treatment, Infertility, De-worming, castration etc.

We have been organizing livestock management 26 villages providing support for Primary treatments for the animals through help of Pashu Sakhis 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-

Objective of LSD:-

- To get available treatments to animals at village level only.
- Timely animals to be treated with good service.
- Generate employment and empower SHG Groups.

E) Farmers Producer Company (FPO):-



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 initiate farmer self help group for saving their own money and all groups linked with GFPCI. to diminishing the dependency of Agri shop owner and village level moneylenders.

Objective of FPO:-

- To make available quality inputs for farmers at reasonable rates.
- To diminishing the dependency on moneylender.
- Collective purchasing of Agri input as well as selling.
- Develop market linkages with farmers for their produce.
- Generate additional benefits for farmers through AFR activity.
- To educate farmers for organic & natural farming through Mechanical and Botanical methods for control of severe pests.
- To make farmers free from money lenders and middlemen.

Output of capacity building and farmers support activities from Apr-19 to Sep 19

Sr. No.	Activity	No. Of Activity	Total Participant
1	Staff Training	18	145
2	FF Training	24	130
3	Farmer Internal Exposure	4	954
4	Worker Training	134	2348
5	Organized Demonstration	791	15993
7	MARKET STALL	18	7478
8	Lead Farmer Training	16	1904
9	Farmers LG Training	2610	55970
11	Field Day	21	621
12	Livestock	24	1821 (animals treated)
13	Pashu Sakhis Trainings	04	32
13	Women Training	253	3265
14	BOD Meetings	5	8
15	Vehicle Campaigning	4	21440
16	Video Shows	35	1326
17	Promotion of Fisheries	01	30

Snapshot of the ABLP



Village level awareness program at new core Village Nandgaon Surya in collaboration with all programs of ACF



Sisters gifted Safety Kit to her Farmer brother on occasion of Rakshabandhan



Control attack of whitefly mechanically using polypropylene yellow colored sheet with layer of Greece



Display information about Bad impacts of pesticides in local & common festivals of village like "POLA"



Display information about Bad impacts of pesticides, beneficial insects and harmful insects in local & common festivals of village like "POLA"



Display information about Bad Impacts of pesticides, beneficial insects, and harmful insects in local & common festivals of village like "GAURIPOOJA" (HARTALIKA)



Demonstration of Bird perches, installation of Pheromone traps & Yellow sticky traps for control of Sucking pests & bollworms at one Farm.

Ambuja Cement Foundation (ACF)**SKILLDEVELOPMENT PROGRAM: AITC (SEDI) APRIL 2019 TO SEPTEMBER 2019**

Ambuja Industrial Training Center (AITC) started in 2008 for imparting employable skill to the local youth under Skill & Entrepreneurship Development Institute (SEDI) initiative of Ambuja Cement Foundation. Our main objective is to impart skills to the rural youths to generate sustainable livelihood. AITC is having courses for two years duration like Fitter and Electrician and one year course welder affiliated with NCVT, SEDI catering short duration courses like Assistant Electrician, Manual Metal Arc Welding, Fitter Fabrication, Mason, General Duty Assistant and Assistant Manual Metal Arc Welding. Affiliated with NSDC



Coverage Area:- Our coverage area of ACF location are basically Gadchandur, Rajura, Korpana, Jiwti, Ballarpur & Chandrapur block. This is the area where rural community faces major challenges related to land alienation, poverty & indebtedness, health & Nutrition, education, poor infrastructure and Vocational Training.

Process**Pretraining**

- Ensuring placement linkages
- Need assessment & Counselling
- Community mobilisation

During Training

Networking for Guest lectures, Ensuring quality training and Soft skill and Basic computer is

Main aspects**Post Training**

Hand holding support for two years for placement

**Value Addition**

- Functional English Training
- Basic Computer Training
- Life Skills Training
- First Aid Training
- OII & Safety Training are part of every Training Program
- Mock drills for safety.
- Exposure visit

Ambuja Cement Foundation (ACF)

- On the Job Training

Courses in ITI mode

- Fitter- Duration-24 Months
- Electrical- Duration-24 Months
- Welder- Duration-12 Months

Short Duration courses

- Assistant Electrician - Duration- 3 Months
- Manual Metal Arc welding Training Duration -3 Months
- GDA (Basic Nursing) – Duration- 6 Months
- Assistant Mason - 2 Month

Highlights of the SEDI- AITC

- SEDI discovering spark of entrepreneurship in trainees & motivating till date 16 % of the trainees are self employed
- Institute catering Industrial demand driven Long Duration Vocational Training as well as Short Duration Certificate courses
- Compulsory Life Skills Training, Spoken English as well as Computer Education for all Trainees and main focus on OII and safety
- Focus on Quality with value added Education
- Institute developing skills with facilitating placement &67% is cumulative placement
- Specially concentrating overall Personality Development through various extracurricular activities
- Developing leadership for ownership of the institute in Trainees through Trainee Leaders through involvement in various administrative committees
- Encouraging girls for male dominated courses and male for female dominant courses
- Reaching to poorest of the poor families by generating funds for skill development training to sustain their livelihood
- Electrical safety audit by Assistant Electrical trainees
- Installation of CCTV Camera at Ambuja School



Ambuja Cement Foundation (ACF)

Networking Partners & Funding Partners.

- NABARD



- NSDC -



- ADOR

Welding



- Gruha Finance

- NBCFDC



- NSFDC



- MSSDS



Placement process

- High Demand in Market- Placement Opportunities
- Nursing Assistants- GDA are in high demand in private Hospitals, Nursing Homes, Clinics & Dispensaries
- Scope to become Asha Health Worker in Govt. Scheme
- Knowledgeable Health Messenger at village level

Ambuja Cement Foundation (ACF)

Physical Progress Course wise – April 2019 to September 2019

Sr. No.	Trade	Under Training		Trained (Apr-2019 to Sept -2019)	Placed
		No. of batches	No. of Enrolled		
1	Fitter	2	40	13	7
2	Electrician	2	41	21	11
3	Welder	1	20	17	13
4	Assistant Electrician	6	69	55	19
5	MMAW (Welder)	1	23	0	0
6	Fitter Fabrication	0	0	15	8
7	GDA-Nursing	7	69	74	72
Total		19	262	195	130

NEW INITIATIVE

- Involvement of women's in Mason training and breaking stereotypes
- Involvement of male in nursing trainees



Ambuja Cement Foundation (ACF)

- Accreditation of Mason Assistant, Nursing and Electrical Assistant trades.
- Networking with industries for placements
- Organized campus interview
- Creation of working models in various trades
- Celebrated World skill youth day
- Fund raising from NABARD, GRUH, NSFDC and MSSDS
- Initiated Mobilization drive in village to village
- Involvement of GDA trainees in Medical camps
- Enrolled 100% ITI trainees

**NEW PROJECTS**

1. Running GRUH Finance approved project - to train 360 trainees in Nursing, Electrical, and Manual Metal Arc Welding & Fitter Fabrication trade.
2. Completed project sponsored by National scheduled cast Development corporation
3. Completed Training program sponsored by Maharashtra Skill Development society under DPC grant

SEDI has upgraded its Infrastructure & extended facilities

1. Training on welding simulators
2. Training on Hydraulics and Pneumatics
3. Initiated career Counselling centre for trainees
4. Started the placement cell for trainees
5. Training on Vertical Milling machine
6. Counselling Chamber
7. Updated GDA Lab

Ambuja Cement Foundation (ACF)
QUALITY EDUCATION PROGRAMME April to Sept. 2019



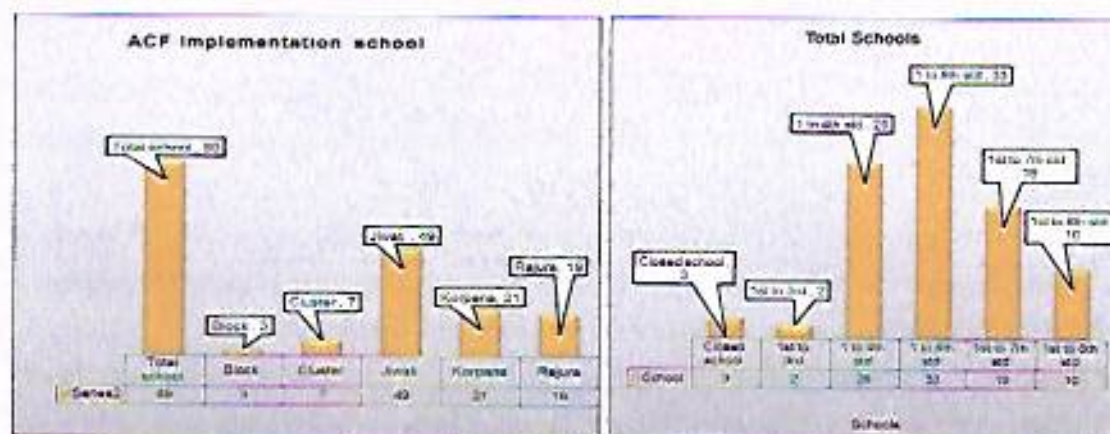
1. Reach out

Year	2001-6	2006-11	2011-16	2019-20
Village	5	25	30	89
Schools	5	25	30	89
Students	530	1500	1689	4098

New beginnings:

In the education programme ACF has collaboration with Principal Secretary, Government of Maharashtra School Education & Sports Department Mantralaya Mumbai-40003 parade of MoU is 2017 to 2020 And Rotary club of Hirai Chandrapur pared of MoU 1 June 17 to April 18

Coverage of cluster & School:



Ambuja Cement Foundation (ACF)

Objectives of programme:

- Increase enrolment and attendance
- Classroom process and teachers effectiveness
- Teachers capacity building
- Learning assessment and children achievement
- Empowerment of SMCs (School management committee)

Under the Education Program, ACF focuses mainly on Material support to pre-primary and primary, capacity building program of Anganwadis, Teachers and SMCs, Development of TLMs with school children and teachers, capacity building of Balmitras organizing academic, sports and cultural events to avail platform to school children's to show case their hidden talents through school management, help to get basic amenities like drinking water, toilets, e-learning teaching learning material. ACF Chandrapur strengthens SMCs through Capacity Building trainings, reviewing their meetings and building awareness about their roles and responsibilities in regular school administrative and functioning for holistic development of children at schools. Through various activities like parents' meeting, in SMC workshops, exposure visits to other schools ACF ensures good functioning of SMCs. Further, regular home visits and capacity building training about their roles and responsibilities ensures active participation in school development; and community and SMCs contribution in developing infrastructure like Balmela, Bala Painting and so on and e-learning tools helps children's holistic development.

ACF Chandrapur, major focus on preparation of the students for competitive exams like Navoday Vidyalaya or scholarship exams held by state government along with support to weaker section of Children This classes helps them to with current academic level of other students at schools.

Chandrapur is closely working with Education department and Rotary Club as a private partner and also collecting community contribution for each component community contribution for infrastructural, basic amenities and material support like e-learning tools, library and so on.

1. **Need assessment and its action plan** shall be provided to Principal secretary of education department and we will completed 89 schools for need assessment in Jiwati , Rajura and Korpana block
2. Cluster development program from planning to implementation will be Coordinated jointly by Ambuja Cement Foundation and ECO , EO, District Education department under the guidance of Principal Secretary 04 meeting had been done with education department.
3. Coordination committee will be formed in dist. level (CEO, DIECPD Principal, District Education Officer, Block Education Officer of three blocks from the govt. and General Manager, Program Manager and Project Executive from ACF. Chairman will be CEO of ZP and Secretary will be from ACF.)
4. Cluster quality education programme plan meeting on New academic year with Principal Secretary, Government of Maharashtra School Education & Sports Department at Mantralaya , Mumbai

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5. **Cluster level monthly meeting:** is an important opportunity for teachers to share their concerns, seek solution to their academic problems and learn various things from fellow teachers. Teachers should be encouraged to attend these follow up meetings regularly. These meetings need be conducted in a professional manner. Block and district authorities need to device proper mechanism so that all teachers get opportunity to take part in such meetings.
6. Dist. level committee member's meeting held in the every month participant of members Principal, all Ext. officer of three block DIECPD, Chandrapur regarding Cluster approach on Quality education programme how to digging the cluster approach and how to develop the cluster approach programme.
7. In the April 19 Out-of-school children were survey and all the information about how many villages as well as the reasons were the school being child labor and discussed with Ceo Chandrapur.



4. BaLA Painting activity:

ACF have signed MoU with the State Education Department at cluster approach to ensure holistic development of school children. BaLA (Building as Learning Aid) is an innovative concept towards qualitative improvement in education, through developing child-friendly, learning and fun based physical environment building in school infrastructure. Under RTE, we envisage schools where children can learn and play.

In 10 Jiwati ZP schools that near a welcoming environment for children and reflect their local culture is about developing school spaces- the classrooms, the floors, walls, doors, windows, pillars, corridors, the outdoor spaces and the natural environment- as learning resources. BaLA is a way to holistically plan and use the school infrastructure it incorporates the idea of activity based learning. The child friendliness and inclusive education for children with special needs.

Community contribution school for BaLA painting will be Rs. 1.00 lakh contribute around 25% with the support of SMCs, teachers and parents.

5. SMC workshop and parents awareness programme:-

ACF School works directly in the communities through its Community Based Educational Interventions. Keeping in mind the experiences of working in the communities and with most of our children attending the nearby Municipal schools, the organization has adopted a strategy to work



Ambuja Cement Foundation (ACF)

with the School to the community in which it works. This strategy helps in keeping a track of the children who are going to schools which helps in preventing the drop out

86 schools SMC member are 50 % women's SMC at all schools SMC has a pivotal role in maximizing physical and human resources through strong linkages with parents, teachers, students, individuals and institutions and other key stakeholders involved in the school were aware of their roles as facilitators and supporters of the school . SMC members workshop conducted SMC training for Patan at Patan school and Palak Melava 600 members attended from training cluster Subject of training :-Why education important for child , teachers role for education , SMC role , SMC members what monitoring the school SMC frame work , Action plan for SMC members

6. Teachers workshop: -Workshop for 86 Z.P. school teachers of 26th July , 26th 27th Aug. 19 and 29th Aug. 2019 done workshop from 06 cluster from Bhakardi , Jiwati ,Bhendvi and Patan The workshop 305 participated of teachers, ext. officer, kandra prumuk in three blocks. Subject of workshop for Science and ISO school concept.

Summer camp: - 1 month Summer camp at Upparwahi and Pimpalgaon , Korpana Block , and 2- 3 days Summer camp Jiwati Block and Patan Block school 640 students participant in this camp. In the camp various activity conducted in this camp . The children's have shared those experiments.

ISO school Hardona Khu and Pimpalgaon and Upparwahi organized general knowledge competitions, and classes held on every Sunday, on Sunday this class was held 100% of the students were present in this classes

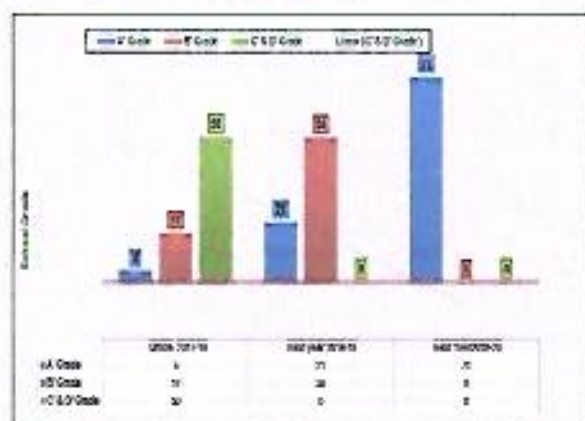
Other activity:-

- 18 Z. P school become an ISO certified and 15 Anganwadi
- Rotary collaboration organized summer camp at Jiwati
- Block level meeting with BEO Rajura and Korpana regarding felicitation programme and teacher workshop on every month
- Committee members meeting with CEO on for cluster approach quality education programme



Ambuja Cement Foundation (ACF)

- E. The competition examination classes were held on Sunday, on Sunday this class was held 100% of Primary and Upp. Primary Upparwahi , Pimpalgaon , and Hardona Khu. students the students were 100% students present in this classes



Ambuja Cement Foundation (ACF)

E. The competitive examination classes were held on Sunday, on Sunday this class was held 100% attendance was taken from the students. From the students, students the students



Ambuja Cement Foundation (ACF)
Health Program – April to September 2019

At present Health program operates in 66 villages across the 3 blocks namely Korpana, Rajura and Jiwati. Keeping approach of Integrated Health Program. At present no. of 60 Sakhis associated with us and reaching out to 7793 house-holds by covering population 36589.

1. **Clinical Health Service:** This service has been providing through the Mobile Van, Weekly dispensary, community clinic, Patient treated by Sakhis and organizing specialty health camps. **Covered total no. of 2611 patients from reporting period.**

1	Mobile Van	2054
2	Community Clinic	557
3	Camps	00
Total Cases		2611

2. **Maternal & Child Health Project:** Under MCH program we are done following activities

ANC Check-up Camps - 08

Treated pregnant mothers: 114

Paediatric Camps - 07

Treated Children: 161

Total deliveries: 47 Institutional Deliveries: 46

Percentage of institutional deliveries is 97.87

3. **Non Communicable Disease:** The major emphasis is on community awareness and education, facilitating screening early diagnosis and treatment, and improving utilization of NCD health services. **Under this project we are done following activities**

NCD Awareness program & NCD camp



Ambuja Cement Foundation (ACF)			
Sr. No.	Activities	No of program	No of participants
1	Community meetings	117	7387
2	Screening camps – Diabetes & hypertension	40	3036
3	Nutrition Awareness program	77	1202
4	Lifestyle management sessions	191	3029
5	Total NCD Patients – Diabetes, Hypertension & Cancer		1558
6	Referrals for future diagnosis and treatments		455

4. Communicable Disease project: Under this project we are organized awareness session on Malaria, & Tuberculosis. Total session is **213** there were participants **3643**

5. Total Sanitation Project: Under Total Sanitation project following activities had done

1	Total awareness session with community	128
2	Total Participants in Awareness sessions	2279
3	Soak Pits installation	23
4	Toilets installation and maintain	152

6. APEKSHA Project: Under this program following activities has done

- Capacity building training of PEER Educators: **02**
- Number of PEER Educators trained : **55**

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7. **Anemia Control Program:** Under this program following activities has done

- HB testing camps : **06 School**
- Nutrition session with students: **06** Total Participants : **561** Students
- Pretest data of anemic cases : Total HB test 672 Total Anemic: 238



Pre Testing July 2018 Analysis

	Boys		Girls	
	Normal	Anemic	Normal	Anemic
Total	201	97	122	141
%	67.44%	32.55%	57.57%	42.42%

Water Resource Management program – April 2019 to Sept 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 550 People benefited from this program.

1. Watershed activity :

- Repairing of 2 CNB at Warzadi and Baleguda village.
- Nalla Deepening and widening 300 mtr.
- Farm Bunding at Sonapur and Bhendvi village – 160 ha
- Water Storage Capacity – 1200 Cum
- Area Under Irrigation – 40 ha

2. Drinking water facility :

- Providing borewell at Kukudsath village
- Providing of water tanker at Jiwati area.
- House hold benefitted – 350 HHs

3. Roof rain water Harvesting structures :

ACF Working on Roof rain water harvesting in our surrounding villages. ACF support to install the PVC pipeline and farmers contribute the excavation of Soak pit with filter media. This year we are installed the RRWHs in Hardona village 4 household and community center at Kukudaath and School shed at Upparwahi.

4. 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 benefited to Sprinkler installation.

5. Integrated water resource management program :

IWRM run with the Government of Maharashtra and done the work in last six month like farm bunding, After the completion we complete the billing procedure and follow up to the government for 55 % Share received. Rs 12 lakh amount received from the government of Maharashtra.

Ambuja Cement Foundation (ACF)



Ambuja Cement Foundation (ACF)
Women Empowerment Programme – April 2019 to Sept. 2019

ACF endeavours to empower rural women by taking more series of initiatives. Ambuja Cement Foundation, Upparwahi has started its journey from 2001, by promoting SHGs (Self Help Groups). ACF, Upparwahi has promoted total no. of 177 SHGs from 2001 to till September 2019.

In Chandrapur programme area in Maharashtra, ACF's SHGs has formed a women federation and total 120 SHGs have joined the federation. The federation has involved in many types of financial, Social and Income Generation activities as like construction of toilets through the Gruh Finance Support, Purchase and selling of Sakhi Sanitary Pad, School and College bags making and selling, Farm inputs purchase and selling etc. The federation has set up an institutional structure and decision making process. Ekata women federation has working with SHGs members and most of the services provided to their members and its main purpose is increase the livelihood of their poorest members.

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 177 women SHGs and we have doing the work with total 2012 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 September 2019, ACF, Chandrapur has formed total 18 new SHGs (Women 17 & 1 Youth) and covered 206 members. Encompassing 2012 women in 47 villages with a collective saving base of Rs.99.12 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. Lxam 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 .

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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 April to September 2019, our 13 SHG members have started own business from Pradhan Mantri Mudra loan schemes. All the members form Hardona kh, Thutra, Upparwahi villages. Miss Chanrakala Ramgirwar has taken the PM Mudra Loan of Rs.1.50 from BOI, Upparwahi for start the Goat farming. 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**

Ambuja Cement Foundation (ACF)

project support from Gruh Finance Ltd. Ahamadabad 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. Under the project total total 565 toilets have constructed through the SHGs.

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 13.85 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 565 (91+259+130+46+39=526) toilets constructed and 35 is under in progress.

Work under Gruh Finance Ltd. Ahamadabad:



Work under Haqdarshak project: Under the WEP program total 25 HDs have work with Haqdarshak Company. In the project total 65 villages have covered for Resan card, Caste certificate, Income certificate, Government schemes for SHG members and villagers. All the work monitored through the Haqdarshak App on mobile. **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 Haqdarshak 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 ,Updating of the scheme information as per revision in the scheme guidelines announced by the government, Regular backend and platform maintenance support by IIESPL.

Ambuja Cement Foundation (ACF)



Work under Pashusakhi project support from ABLP program: Under the project 32 Pashusakhis have trained for Livestock management. In the project covered 45 villages. A main objective of this project is increased financial status. All types of services has provided to Pashu Palak through the sakhis as like Management of Goat and Poultry, Vaccination, Deworming, Basic treatment etc, from April to September 2019, 13 Pashupalak Groups have formed for mobilization and collective marketing. **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 .



Awareness sessions for Domestic Violence: From April to September, 2019 total 6 sessions organized by ACF & Ekata federation , Mrs. Deepanjali Manthanwar Advocate , Korpana .

Ambuja Cement Foundation (ACF)



Ekata Women Federation: Safety Outlet at Transport Nagar:



Ekata Women Federation: Outlet for SHG products:



Selling outlet at MCW Colony complex

- Livehood 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.
- 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

Ambuja Cement Foundation (ACF)

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 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.

- **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).

**Program components:**

Activity	Sub Total (April to Sept. 2019)	
	No. of activities	Total Participants
New SHGs formation	18	206
Awariness sessions for new SHGs	43	445
Concept training for new SHG	7	223
Leadership Training	1	33
Gender Sensitization Training	5	210
Panchayat Raj awareness session (Hardona khu. Pimpalgaon & Piparda)	2	72
Internal Exposure visit for toilet construction work SHG members	3	88
Social activities through the SHGs(Plantation and Rally)	6	332
Entrepreneurship Promotion (EP) Mushroom units	3	30
Development of SHGs (Federation meeting)	12	335
Development of SHGs (Cluster level meetings)		
Formation of Pashupalak Group	13	338

Ambuja Cement Foundation (ACF)

- **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 34 SHG members have purchases 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 September 2019, 3 mass level federation meeting and 2 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. 2019 total 12 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 construction work at Pimpalgaon, Isapur, Baleguda, Piparda & Hardona khu. Manoliguda, Saleguda , Hirapur & Piparda village. Though the federation 7 types of support services provided to SHGs as like small loan for basic needs, loan for toilet construction under Grub 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/19/2019/110

November 23, 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 Post monsoon season (Oct 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: L25942GJ1981PLC004717 Website : www.ambujacement.com

Ground water Level Measurement Report

October 2019 (Post-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	0.9
2	Bhendwi (Gereguda)	Sheikh Rajjak agricultural land (Personal well)	VDW2	0.2
3	Hirapur	Near Jaitu Meshram House (Common Well)	VDW3	1.8
4	Sonapur	Near Gram Panchayat (Common Well)	VDW4	2.6
5	Pandharpaoni	Near Laxshman Pendorer House (Common Well)	VDW5	2.4
6	Chandanwahi	Near Nanji Darekar House (Common Well)	VDW6	2.1
7	Pimpalgaon	Near Wasant Lohe (Private Well)	VDW7	0.6
8	Thutra	Near Bobade's House (Private Well)	VDW8	0.7
9	Upparwahi	Near Santosh Hanumante House (Common Well)	VDW9	0.2
10	Mangi (Big)	Near Mata Temple (Common Well)	VDW10	5.0
11	Mangi	Sawkar Well	VDW11	4.0
12	Hardona (Khurd)	Near Ramesh Zade house	VDW12	3.9
13	Gadchandur	Near Premchand Borkar House (Common Well)	VDW13	6.0

Piezometer well water Level Measurement Report

October 2019 (Post-monsoon)

Sr. No.	Location	Co-ordinates (Latitude & Longitude)	Location Code	Water Level (In Meter)
1	Thutra	19.720990 N, 79.192074 E	PZ-1	1.3
2	Mines Site Office	19.705503 N, 79.212236 E	PZ-2	6.5
3	Magzine area	19.697453 N, 79.208725 E	PZ-3	8.9

Ambuja Cement Limited
(Unit :- Maratha Cement Works)

Summary of Drinking Water Analysis Report of Surrounding Village

Oct-19

Sr. No	Parameter	Unit	Iron	Lead	Copper	Residual Chlorine	Chloride	Phosphate	Fluoride	Thurs	Uppersh	Along (kg/stand)	Hardness (d/hd)	Calcinder
1	pH		7.55	8.05	7.55	7.79	7.65	7.55	7.55	7.50	7.64	7.50	7.50	7.75
2	Total Dissolved Solids	mg/lit	452.00	436.00	470.00	428.00	449.00	478.00	456.00	456.00	484.00	440.00	488.00	484.00
3	Total Alkalinity	mg/lit	134.68	152.82	114.54	122.08	124.92	148.40	131.04	131.04	154.60	153.60	157.50	158.50
4	Iron	mg/lit	0.15	0.15	0.19	0.27	0.28	0.03	0.07	0.07	0.03	0.06	0.24	0.17
5	Fluoride	mg/lit	0.42	0.48	0.18	0.13	0.12	0.24	0.17	0.17	0.18	0.12	0.28	0.52
6	Chloride	mg/lit	50.58	42.81	70.87	51.84	47.85	50.58	41.89	41.89	58.87	47.80	38.88	64.97
7	Total Hardness	mg/lit	158.42	178.22	178.20	148.50	160.38	182.16	174.24	174.24	180.08	174.24	184.74	180.18
8	Sulphate	mg/lit	30.68	30.83	35.46	28.82	30.60	38.21	34.82	34.82	37.46	34.82	28.21	34.11

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 ACTL 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 April 2019 To 30th September 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	18.06	49.47	6.66	18.46
2	Guest House (Near Bachelor Accommodation)	0.5	SE	22.72	51.01	7.87	21.96
3	L.S. Crusher	0.1	W	25.55	54.37	9.66	24.67
4	Near magazine Section	1.5	SW	20.23	48.84	6.82	18.74
5	Near Water Pond	2	NW	17.76	47.98	6.31	16.51

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 April - 2019 To September - 2019)

Sr.NO.	Location	SPM in ($\mu\text{g}/\text{M}^3$)	CPCB Standard ($\mu\text{g}/\text{M}^3$)
1	Limestone stockpile area	912	5000
2	Near Mines Site Office	775	
3	Mines Haul Road	1027	
4	Near Limestone Crusher	866	

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 April 2019 To 30th September 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
Apr-19	56.8	55.4	55.7	54.7	59.2	57.6	55.7	54.2	57.2	55.6
May-19	56.4	55.7	56.9	55	60.4	58.2	55.1	54.7	57	55.1
Jun-19	56.2	55.4	55.5	54.7	60.7	59.2	55.5	54.3	54	53.6
Jul-19	53.2	52.7	52.4	51.2	61.5	59.7	52.4	51.9	52.4	50.7
Aug-19	50.6	48.7	48.5	47.3	62.7	60.3	47.4	44.3	46.4	45.3
Sep-19	48.7	46.4	47.3	45.5	64.9	63.8	45.8	44.1	51.3	50.0

Note: - All the Values are Monthly Average Values.

Air Pollution Control Equipments



Bag Filter

Technical Specification of the Air Pollution Control Equipment

Sr. No	Details	Crusher
1	Material of Construction of Stack	MS Sheet
2	Stack attached to	B/F
3	Stack height	
a.	Round or Rectangular	Round
b.	Above the ground level (mt)	28 m
4	Stack top	
a.	Round or Rectangular	Round
b.	Inside dimension of the stack at top	1.5 m
5	Gas quantity M ³ /hr	90,000
6	Flue gas temperature deg.cel	50
7	Exit velocity of the gas m/sec	14.12
8	Dust load gm/ m ³	60
9	Dust emission mg/Nm ³ , Design	<30
10	Design pressure mm Wg	500
11	Max flange to flange pressure drop mm	150
12	Air to cloth ratio m ³ /min/m ²	1.4
13	Size of bags mm x mmdia x height	149 x 3650
14	Total no. of bags	612
15	Type of Cloth	Polyester Needle Felt
16	Permeability at 20 mm Wg lt / min / cm ²	120-160
17	Filteration area m ²	1046.52
18	Max. allowable temperature °C	130

Ambuja Cements Ltd.
(Unit: - Maratha Cement Works Upparwahi)
Air Quality Monitoring Results

Six Monthly Average Values of Stack Emission Monitoring
(From 1st April - 2019 To 30th September - 2019)

Sr.No.	Stack Attached to	Stack Height (m)	Velocity (m/sec)	Particulate Matter (mg/Nm ³)
1	L.S. Crusher B/F	30	7.51	13.16

Note :- Values are Monthly Average Values.