

MCW / EMD /12 / 2020/ 2.2.1

November 27, 2020

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 2020 to September 2020** of M/s Ambuja Cements Ltd. (Unit: Maratha Cement Works, Upparwahi), Chandrapur (Maharashtra)

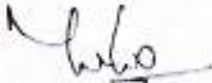
Ref: **EC No. J-11016/11/2004 – IA – II (M), Dtd. 06.01.2005**

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 2020 to September 2020) 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)



M. Sanjeeva Rao
Authorized Signatory

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 01.04.2020 to 30.09.2020

(EC No. J-11016/11/2004 – IA – I I (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 01.04.2020 to 30.09.2020 0 m ³ of Top soil has been generated & utilized for greenbelt & till date 99717 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 drilling 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 373336 trees have been planted in the total mining lease area. The density of plantation is 2558 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. General Condition		
(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 SO2. 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 27.05.2020.
(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 extraction system. Regular water spraying on haul roads and crusher hopper to control the fugitive dust. We have also provided permanent water sprinklers on mines road. The details are enclosed as Annexure – 8 & 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 is 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 Senior Executive 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>2017-18</td><td>226.93</td></tr><tr><td>2018-19</td><td>870.42</td></tr><tr><td>2019-20</td><td>3792.07*</td></tr></table> <p>Expenses inclusive of Cement Plant, CPP & Minors *Recurring Environmental Expenditure was 823.31 Lacs. and Capital Expenditure was 2968.76 Lacs.</p>	Year	Expenses (Rs. Lacs.)	2017-18	226.93	2018-19	870.42	2019-20	3792.07*
Year	Expenses (Rs. Lacs.)									
2017-18	226.93									
2018-19	870.42									
2019-20	3792.07*									
(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	Noted.								

	Office for 30 days.	
(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 2020

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

Bund(Berm)	5253.00M		
	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
Lakmapur	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		
	Garland drain in meter		Siltation tank
Waste side adjoining area of Dewara	722	29*17*2.46	493.00 sq.meter, 1212.78 cub. Meter
		26*17*2.83	442.00 sq.meter, 1250.86 cub. Meter
Total	722		

Combined details of three lease as on 30th September 2020

Bund(Berm)	15361.00 meter
Siltation tank	10 Nos.
Garland drain	9060.00 meter
Construction of retaining wall	140.00 meter

Tree Plantation details as on September 2020

Sr. No.	Location	YEAR OF PLANTATION									Total plantation	Area in Ha.
		Upto 2012	2013	2014	2015	2016	2017	2018	2019	2020		
1	Plant	46872	500	225	0	0	0	0	0	0	47597	16.25
	Infilling	176	500		316		673	0	0	0	1665	
2	Colony	43998	1400	4500	242	0	0	0	0	0	50140	19.076
	Infilling	1170	100								1270	
3	Mines	277204	10500	12600	9000	6500	15632	18100	15000	8800	364536	
	Infilling	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	0	6570	5 KM
	Infilling	450									450	
6	Other plantation in villages	41391	441		302	9500	2575	2300	0	0	56509	21.57
	Total plantation Nos.	445596	15,641	19,325	10,660	16,000	19,343	22,970	19,000	8,800	5,77,436	

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 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.



SIX MONTHLY PROGRESS REPORT ON ACF CSR WORK (April 2020 to Sep 2020)

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 likeminded organization BCI. We also collaborate with CICR-Nagpur, Anand Niketan Agriculture College Warora, KVK

Sindewahi 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):

ACF, Chandrapur working with BCI project since 2009 in adjoining village of Maratha Cement Work, from the year 2012-13 extend area of BCI, current year ACF- Chandrapur covering with 64623 farmers with 639 Villages of Chandrapur & Nagpur districts covered Rajura, Jiwati, Korpana, Bhadrawati, Chimur, Chandrapur, Warora Blocks of Chandrapur district and Ilingna, Nagpur Gramin, Kalmeshwar, Saoner Blocks of Nagpur district.

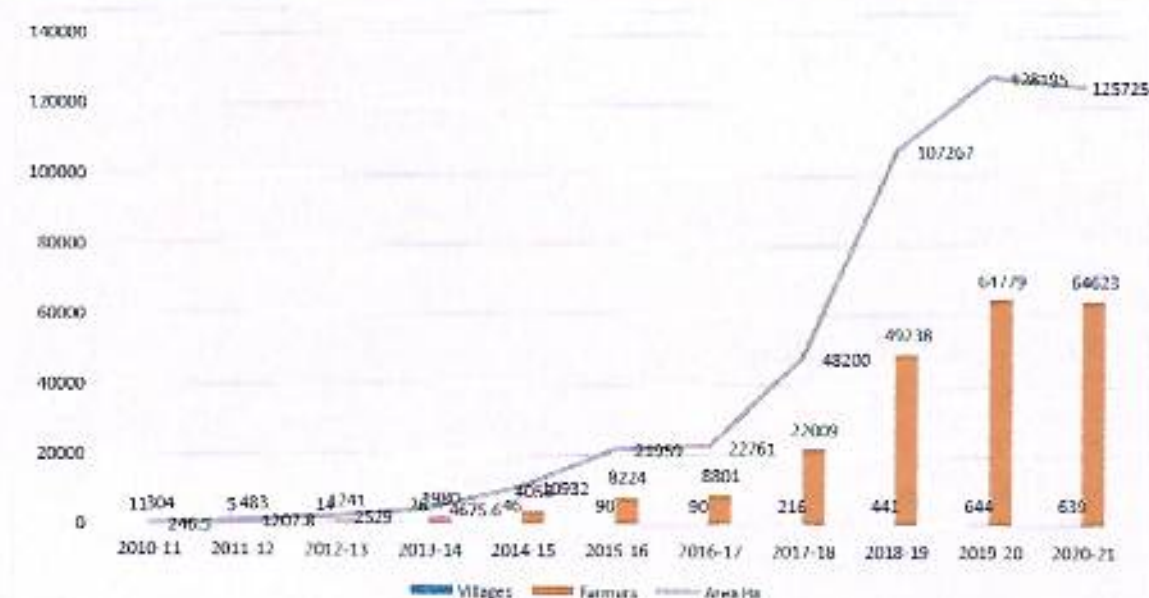


Objectives:

- 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.

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	20-21
Villages	11	5	14	26	46	90	90	216	441	644	639
Farmer	304	483	1241	1980	4055	8224	8801	22009	49238	64779	64623
Area (Ha.)	246.50	1207.80	2529	4675.6	10932	21959	22761	48200	107267	128195	125725



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. In this year 2146 farmers

going with intercropping of leguminous as well as vegetable crops and current period we have completed 03 trainings on Agronomical aspects.

Considering with mentioned issues ACF, Chandrapur decided to work on ICM within the following Objectives.

Objectives of ICM:-

- 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, current year covered 50 farmers with *Katla* species of Fish

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):-**Livestock Development Programme through the Pashu Swatha sakhi support from ABLP program:**

Under the project 32 Pashusakhis have trained for Livestock management in the surrounding area & core villages. In the project covered 47 villages. A main objective of this project is sustainable development & increased financial status. All types of required services has provided to Pashu Palak through the Pashu Swatha sakhis as like Management of Goatery and Poultry, Vaccination, Deworming, Basic treatment, Goat farming etc, from April to September 2020, 2 Pashupalak Groups have formed for mobilization and collective marketing. Organized total 34 awareness sessions with the formed 21 Pashu Palak group during the Lock Down period.

Pashusakhi Project : Objective 1) Livestock development and Promotion of small & large IG activities 2) Goat management and treatment for livehood promotion 3) Support for farming 4) Lifestyle management 5) Increase financial status & support to Landless & small families 6) Established small entrepreneur & collective marketing with the help of FPO, NABARD & ATMA 7) Decries the Mortality of Goatry and Poultry 8) Awareness among the villages or Pashupalak regarding Nutrition Food , Clean Water & Vaccine .

**Achievements during the period of April to September 2020:**

Sr.No.	Activities	Covered	
1	Need Base survey completed	4 new villages (in new mines area)	928 HH
2	Lampi Skin disease awareness one to one	1124	1124 Large Animals
3	Lampi Skin disease treatment camp with local government team	16	1988 Large Animals
4	Vaccination Camp (PPR & FMD)	22	489 Goats & Bucks
5	Deworming camp	6	228
6	Pashu Swatha Sakhi Training	6 days	16 PSS

Started new 10 Poultry units with the support of Chanda to Banda Project. Received total 4 Lack support to Landless families.

सुसज्जता सुसज्जता सुसज्जता

पशु आधार नोंदणी

सर्वोच्च राष्ट्रीय पशुधन नियंत्रण कार्यक्रम अंतर्गत
आयना व सुसज्जता योजना अंतर्गत सुसज्जता

पशु आधार नोंदणीकरण (पशुधन नियंत्रण) कायदा:

- 1. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
- 2. पशुधन नियंत्रण अंतर्गत पशुधन नियंत्रण पत्र प्राप्त करणे हाचच सुसज्जता
- 3. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
- 4. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
- 5. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
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- 8. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
- 9. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता
- 10. अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता

अंतर्गतपत्र प्राप्त करणे हाचच सुसज्जता



Fodder Development Plot: Developed 41 Fodder plots with the help of ATMA Rajura & Got benefits to 41 farmers.

11/10/2019 10:00:00
 Longitude: 79.121668
 Latitude: 28.121668
 Altitude: 1.6m
 Accuracy: 10m
 Speed: 14.4 m/s
 Power: 10.44 W
 Voltage: 220 V
 Frequency: 50 Hz

Powered by AnaloChem

A woman wearing a red and yellow headscarf is sitting on the floor in a shop, writing on a notebook. She is surrounded by shelves stocked with various goods, including bottles and boxes. The shop appears to be a small, cluttered stall or kiosk.

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Ambuja Cement Foundation (ACF)
Women Empowerment Programme

Period: April 2020 to September 2020

Introductions:

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 197 SHGs** & involved **2224** women members from **2001 to September 2020**.

Empowerment is a process of creating awareness about social realities and available rights, to build capacity through education, knowledge, skills, and action to initiate participation to bring change. The participation of women in savings and economic attainment will improve the status and gives the power to participate in the decision-making process. It changes the nature and direction of systems affecting marginalized women and other disadvantaged sections in the society.

Self-help groups are small voluntary associations of people from the same socio-economic background to solve their common problems through self-help and mutual help. It is a tool to promote rural savings and provide gainful employment. Collective actions introduce leadership, Strength; reduce risk, and external threats. It enables women to overcome the oppression of patriarchy by helping to realize their true potentials which reflect total wellbeing.

The microcredit is one of the solutions to promote the quality of life which accelerate socio-economic development and reduce the rural poverty considerably. Self Help Groups play an important role in ensuring good health and empower women within the household as well as in society. This describes the constitution, scope, and credibility of Self Help Groups, the Government initiatives towards its promotion, Women Empowerment initiatives in rural areas, and analyses the impact of intervention towards socio-economic and rural development.

Since 2000, ACF works in Chandrapur district under the CSR arms of Ambuja Cement Ltd. for the betterment of the community by covering **12 core & their join** villages of the surrounding area of the company. Initially focused on the formation of SHG under the "Women Empowerment" Program. Later on formed the women federation to address the social issues along with economic development by strengthening the SHG's and focused on various income generation activities and social development.

Now as on date we have **197 SHG**, which is compressing with **2224 women** members. All are participating in various social and economic developmental activities. Reduced the trained to borrow the loan form money lenders for agriculture and other primary needs. All SHG's are joined to the bank for financial transactions and availing loans for family needs and toilets construction as well. Most of the women engaged in individual income generation activities. To date our 40% women have been started their businesses under the "Pradhan Mantri Mudra" loan and support of the Joint Liability Group (JLG) Project which is sanction by Vidharbha Kokan Gramin Bank and NABARD, Chandrapur. During the year 60% of

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members opened their banks account in JAN DHAN Yojana, aligned with Pradhan Mantri Jiwan Jyoti & Pradhan Manti Jiwan Suraksha insurance scheme for social security. No. of 126 families have registered to Sukanaya Schemes. The members of SHG's have their accounts in Nationalized Banks under the Haqdarshak and did Digitalization of all SHG's with the support of NABARD project.

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, Food Canteen at ACF and MCW COLONY premises for providing the food services, Hard & Soft Brooms. 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 197 women SHGs and we have doing the work with total 2224 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 2020, ACF Chandrapur has formed total **12 new SHGs** and covered **126 members**. Encompassing **2224 women in 47 villages** with a collective saving base of Rs.144.11 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 , Vidharbha Kokan Gramin Bank Gadchandur 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 and support to their families for farming inputs. In the month of **April to September 2020 our 188 SHG members** have started their own business from the Joint Liability Group (JLG Project) loaning of Rs.89 Lacks. All the members from Pimpalgaon, Lakhmapur, Isapur, Hardona kh & Buj, Naranda, Manoli kh, Kusal, Kawthala, Upparwahi, Thutra and Bhendvi villages. Our 11 SHGs has selected for Chanda TO Banda Project with the help of MAVIM & NABARD. Under the project total 13 SHGs submitted their project proposal to Chanda to Banda department Chandrapur & MAVIM. As per our data total 385 women from Landless & Small Farmer families and they engaged in enterprises like Goat Farming, Herbal medicine, Sewaya making, goatry, vegetable cultivation, Poultry units, Dalmil, Beauty parlor, 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. 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 and received 40 new applications from 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 15.08 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:

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Work under Haqdarshak project: Under the WEP program total 25 HDs have work with Haqdarshak Company. Out of 25 HDs 11 are working in surrounding areas. In the project total 65 villages have covered for Resan card, Pan 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 HESPL.

Ekata Women Federation & supportive Projects : In every month from April to September 2020, 4 meeting for planning of Covid 19 work. In the meeting SHGs & Federation members have participated with their village issues & 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 9 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 girl's education and social issues.

Food Canteen at ACF & MCW premises: In 2012, one small tea & Snacks canteen has started at ACF premises on SEDI top open place. The objective of canteen was provide the safe and clean food to ACF staff. Before the SHG canteen TEA & Snacks services has provided by outsider person from Transport Nagar, Upparwahi. Most of the time we faced hygiene & cleaning issues. Most of the ACF staff come from Chandrapur and they were faced tiffin services that's the reason we were started SHG canteen.

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In the Maratha Cement Company most of the Bachelors employees are worked. In the lunch time they come at Safalya Canteen at ACF premises, Transport Nagar. During the lunch time they have faced more challenges. Most of the Colony members were demand for to start the Chat centre and Food services at MCW colony premises. Customer scope & good market Federation has started MCW canteen at MCW colony premises.

SEED & Fertilizer service provide to women farmer & SHG members: Most of the SHG members were purchased farm inputs from money lender and paid high rate interest amount to money lender. Most of the time farmer were purchased bad quality seeds from other state. (*Bogas Biyane* or *Chor Biti*). Lack of farm education. Very less or 0 percentage women were involved in farming design as like Purchase of seed , Which types of seed & fertilizer were applied, Amount of inputs, etc. That's the reason federation were stated this services.

Desi Eggs unit: After the bank linkages under the scheme of PM Mudra loan our 22 SHG member have started their own poultry business at village level. One women has purchased 15 to 20 poultries. In the company premises & local market (Manikgad, Ambuja , Bank employees) most of the demand for Desi Eggs as nutrition purpose. Scope of collective purchasing, selling and marketing Federation has started Desi Eggs unit at Hardona kh for sustainable development. From the business one members are earned Rs.150 to 300 per day's additional income.

Dalmil: In 2001, SHGs has formed. In 2009 one member from Pimpalgaon village has purchased their own Dalmil because of motivation and exposure visit. In our area Tur is a main crop after cotton. Most of the farmers are sealed Tur to Merchant. Then they purchase high rate Tur Dal from shop. The scope of raw material & demand of unpolished Dal Federation has stated Dalmil units with the help of SHG members. During the period total 3 Dalmil were run successfully.

- During the period of Covid 19 federation has involved in preparation of Fabric Cotton Washable 2 & 3 layer Masks. From this activities 26 women members have got employment.
- **Safety Outlet at Transport Nagar:** Ambuja Cement Ltd. company mission is Zero Harms and should be provide clean safety kit to our Driver bhai for maintain better health & family environment. Ekata women federation members have involved various types of safety awareness programs with MCW staff from last 9 to 10 year. Federation safety outlet has been formed under ACF guidance and most of the time its members has involved in company mission (Zero Harms) and most of the members are aware about Road , Fire and Electric safety . A Self Help Group members are involved in safety issues and they participated in role play which is organized by ACF for villagers. Most of the tea point has provide PPEs services to Drivers but no maintain cleaning and proper safety. That's the reason Company demand to ACF for to start the Safety outlet at Transport

Ambuja Cement Foundation (ACF)

Nagar area. Ekata federation has started the Safety outlet because of monthly 15000 to 20000 income from transporter & support received from ACL.



- 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 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.
- Promotion of IG activities : 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.
- Bank loaning for farming session:** During the period of April to September 2020, received total 2 Corer 40 Lakhs bank loaning to 112 SHGs.
- Government & Other Funding Projects:**
- 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).

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- **Joint Liability Groups Project (JLG):** Livelihood promotion through the Joint Liability Groups (JLG Project) under VKGB & NABARD Chandrapur; During the year total **75 new JLGs** has formed and total no.of **250 women** members have covered to started the IG activities.
- **Establishment & Formation of FPO Project:** (Safalya Women Farmer Producer Company): NABARD has sanction the project of FPO. The project purpose is establishment & Formation of women FPO for sustainable SHG business.

Program components:

Activity	Sub Total (April to September 2020)	
	No. of activities	Total Participants
New SHGs formation	12	127
Awareness sessions for new SHGs	78	657
Concept training for new SHG	2	21
SHG conducted regular meeting on monthly	197	2224
Internal & External Exposure visit for toilet construction work SHG members	2	8
Social activities through the SHGs(Plantation and Rally)	3	14
Development of SHGs (Federation meeting)	4	22

- **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, HIV / AIDS awareness, Rain Water Harvesting, Two pit toilets, Use of Safety PPEs, and 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 22 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.

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Water Resource Management program April 2020 to Sept 2020**1. Introduction**

In this year water resource management program done for mainly increasing ground water table and irrigation purpose. Various types of water recharge structure work under this program like Watershed activity - Farm pond, Farm bunding, Rain water harvesting structures, Recharge Pit etc. Total 550 People benefited from this program. In this year ACF Chandrapur is working with Rotary Hirai, Chandrapur for the project of watershed in Mangi village.

The impact and learning of this work inspire us that community should get maximum benefit with such type of Programme and ACF selected Mangi village for watershed work under the watershed program. As per this Project we have selected one watershed area over 100 ha and Mangi Gp.

2. Net planning

To ensure community participation in the project Shivar Feri & Net planning has been done with villagers in which representative from all socio-economic group are included. Community got involved in the programme right from the planning of the project. Every farmer is present when we did net planning of them farms. Also when we survey for check dam also villagers involved and suggested the sites for check dams.



3. Implementation of Physical SWC Measures

4 (a). Farm Bunding

40 Ha Farm bunding work in farmers land Mangi village has been completed out of 100 ha for the conservation of runoff water and topsoil loss as a soil and moisture conservation work. These bunding and trenches helped in recharging of water and stop the erosion of soil and helped them to conserve the required moisture for cultivation.

In Bhendvi village also we work on Farm bunding in farmers land. Total 32 ha and 17 farmers land covered by farm bunding in Bhendvi village.

IMAGES OF FARM BUNDING



(b) Farm Pond

We have completed 4 farm pond out of 5. Farm pond are small water bodies either formed either by the construction of a small dam or embankment across a watershed or by excavating dug out. The water is usually harvested from a small catchment area and then used for irrigation during prolonged periods. It collects excess runoff during rainy period, stored water can be used for supplemental irrigation to crops, it is useful as drinking water for cattle's during drought situation, It can be used for spraying pesticide, It Conserve soil and moisture. As per our completed farm pond we conserve and Harvest the 3600 cum water in one farm pond hence total water harvesting capacity is 14400 Cum.

IMAGES OF FARM POND



(c) Recharge Pit

We have completed 3 Recharge pit out of 10. Recharge pit is to be constructed at the lowest point of field from where all the runoff drains out of field. A typical recharge pit will measure minimum 85 Cubic meter by volume (A recharge pit of 3 meter radius and 3 meter depth). Filter media and bund constructed along the periphery of recharge pit at 0.5 m of berm will ensure silt free runoff to accumulate in recharge pit. Stone outlet constructed at half way point (a point along bund line where half the height of bund at lowest point coincide the ground) will ensure surplus runoff to move safely out of field. As per our completed Recharge pit we conserve and Harvest the 255 cum water in one Recharge pit hence total water harvesting capacity is 465 cum.

IMAGES OF RECHARGE PIT



(d) Vanrai bandhara

This activity is basically done by the community participation and shramadan. This bandhara is manually constructed and its life is only two years. It is very useful for the stored the water after rainy season. The farmers lift the water from the storage and irrigate their land.



Vanrai Bandhara at Mangi village

E) Roof rain water harvesting structures.

This activity is implemented on 5 villages viz, Mangi, Hardona, Pimpalgaon, Upparwahi, Lakmapur. Roof rain water harvesting structures constructed on Common places like Community building, school building, common temple etc. total 1518 cum water harvesting capacity. It is very useful for the ground water recharge or Common hand pump recharge.

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Ambuja Cement Foundation (ACF)
Health Program – April to September 2020

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 Community clinic. ACF has decided mobile van service discontinues on 1st December 2019, and establish new 12 clinics in our area. This year first quarter completely lock down due to COVID epidemic. So we have don't started all community clinics. End of the September month we have started total six clinics old two and new four. Good respond to Community clinics in our core villages, villagers has paid amount for medicine before the clinics ACF has given medicine free of cost. **Covered total no. 258 of patients from reporting period and collect community contribution from medicine and other cost is Rs. 22049 this is good achievements.**

Name of Village	Total Round	Patients								Medicine Amount Rs.	Fess Rs.	Total Amount In Rs.
		Male	Female	Children	Total	HB test	Rs.	Sugar	Rs			
Wadgaon	5	14	31	00	45	03	120	02	70	3348	200	3736
Sonuruli	07	06	37	01	44	05	175	04	120	2830	210	3335
Kusal	07	21	09	04	34	00	00	00	00	2700	285	2985
Hardona khurd	06	12	26	07	45	00	00	00	00	3576	340	3916
Isapur	08	06	29	04	39	00	00	03	90	3724	390	4204
Upparwahi	07	20	24	06	50	01	35	00	00	3598	240	3873
Total	40	79	156	22	258	9	330	09	280	19774	1665	22049

Ambuja Cement Foundation (ACF)

Community Clinic Upparwahi



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

ANC Check-up Camps - 01

Treated pregnant mothers: 56

Paediatric Camps - 00

Treated Children: 364

Total deliveries: 53 Institutional Deliveries: 52

Percentage of institutional deliveries is 99.11 %

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



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Sr. No.	Activities	No of program	No of participants
1	Community meetings	724	12925
2	Screening camps – Diabetes & hypertension	04	178
3	Nutrition Awareness program	90	1026
4	Lifestyle management sessions	264	2592
5	Total NCD Patients Diabetes, Hypertension & Cancer	1506	
6	Referrals for future diagnosis and treatments	498	

4. Communicable Disease project: Under this project we are organized awareness session on Malaria, & Tuberculosis. Total session is 345 there were participants 4723

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

1	Total awareness session with community	208
2	Total Participants in Awareness sessions	4723
3	Soak Pits installation	27
4	Toilets installation and maintain	236

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

- Number of PEER Educators trained : 158
- Village Level APE Trainings: 08
- APE trained : 89
- Awareness sessions conducted by APE – 17 Participants: 108

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

- HB testing camps: 00
- Awareness session with students:

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- Pretest data of anemic cases;

8. Menstrual Hygiene Management Project:

This year we have started the MHM (Menstrual Hygiene Management) Project has started. Under this project our target is women and adolescent girls. We have focus 12 Core villages for these interventions.

- Adolescent groups formed : 55
- MHM Champions : 56
- Awareness session: 96
- Participants : 529

9. Chronic Obstructive Pulmonary Disease (COPD) Project:

This is ASHWAAS project funded and supported by Cipla Foundation where Chest research Foundation is a technical partner, ACF is also supporting and implementing this project in 48 villages of Chandrapur districts. ASHWAAS project is designed for prevention of Obstructive airway diseases and promotion Behavior change to prevent risk factors and exposure of COPD and Asthma, implementation through the front-line workers called as Sakhis. Early identifications and screening of people by visiting every households with peak flow testing and diagnosis by providing services at community clinics is main aspect of this project. Community clinic will play an important role in demonstrating community model in addressing NCD with COPD Asthma as major focus.

Under this project we have implement the COVID interventions because Covid-19 disease is lung related problem Cipla Foundation has provided the support for purchase Oxygen Concentrators and Oxygen cylinders. We have hand over 2 Oxygen Concentrators to Dedicated Covid Health Centre, Rajura and 1 Oxygen Concentrators to Rural Hospital, Gadchandur. 01 Ventilator donate to Government health department Chandrapur.



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COVID Activities;

Activities	Total Number of Activities	Participants
Survey – Pulse oximeter and thermometers	1698 HHs	8490
Home visit by Sakhis – NCD patients/High risk patients	3800	
Total SPOCS		950
Awareness meeting	131	2414
Awareness program – Mask Use Hand washing, home quarantine, Social distancing	374	8521
IEC Printing and distribution	7000 Pamphlets	
Hoardings/Banners	112	
Mask Distribution Through the ACF and GP	48	5456
Soap Distribution Through the GP	48	5734
Food Kit distribute through the ACF	2000	
Mask Preparation	26 SHG	25900 Masks
Survey	66 Villages	7500 HHs
PPE Kits provide to PHC and RH	500 Sanitizer	PPE Kits provide to PHC and RH



Ambuja Cement Foundation (ACF)

QUALITY EDUCATION PROGRAMME – April to Sept. 2020



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.

Coronavirus Disease (COVID-19) outbreak poses serious concerns to global education systems. Efforts to contain COVID-19 prompted unscheduled closure of schools. Education programme strengthens SMCs through Capacity Building trainings, reviewing their meetings and building awareness about their roles and responsibilities to safe environment of children. Through various activities like virtual parents' meeting, in SMC workshops, 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 pandemic situation and community and SMCs contribution in



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developing safe environment like physical education, awareness activities, and online education support and so on and e-learning tools helps children's regular studies.

For the past few years ACF is closely working with Education department and also collecting community contribution for infrastructural, basic amenities and teaching material support like e-learning tools, library and so on.

Conceptualized an Initiative in partnership Project:

- ✚ In the education programme ACF has collaboration with Principal Secretary, Government of Maharashtra School Education & Sports Department Mumbai-40003 parade of MoU is 2017 to March 2020
- ✚ Rotary foundation and local Rotary club of Hirai Chandrapur pared of MoU 1 June 19 to April 20
- ✚ MoU with Door step NGO school in Pune and to teach the Jiwati area students they implemented a language program in 6 villages and 360 students were profited and was till March 20 and because of this it benefited the tribal students and also helped to get them into mainstream.

Reach out

Year	2001-6	2006-11	2011-16	2017-20	April 20
Village	5	25	30	90	22
Schools	5	25	30	90	22
Students	530	1500	1689	5198	1632

Activities done in six months

- ✚ Baseline survey was done mainly on WASH, Library books and Spots promotion.
- ✚ Capacity building of teachers virtual through need based training and workshop like pedagogy of online teaching and WASH in the Month of April 15 days and , One day training 1st and 15th Oct. for WASH and New education policy and Maze Kutumb Mazi Jababdari 55 teachers from 35 schools
- ✚ Mobilization of SMCs 8 training with committees done in June 2020



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- ✚ Conducted school level co-curricular activities reading development activities in 5 Upp. Primary schools of 126 children were involve from Rajura and Korpana Blocks
- ✚ Support classes stated in 3 schools and 180 children enrolled.
- ✚ CAMPION "Maze Kutumb Mazi Jababdari"
Drawing and speech competition done in 5 Upp. primary school children
- ✚ "Global handwashing day"
"Handygiene for All" Campion celebrated on 15th Oct. WASH and Covid-19 method of hand washing demonstrated by children
- ✚ "Vachan Prerna Divas" 15th Oct. 20 promotes book reading on Kalam's birth day done in Pimpalgion Upp. Primary school
- ✚ Plantation done in 4 ZP schools collaboration with Rotary club
- ✚ Under construction of toilets and hand wash station in 3 schools
- ✚ The 8 Schools water testing sample sent to the government. Lab Chandrapur
- ✚ Teachers were participated Online course and quiz for Covid-19 awareness also certificate received
- ✚ ACF education person attending many webinars and now guide the villagers, parents and students
- ✚ NATION BUILDER AWARD 2019-20 recognizing outstanding 23 teachers awarded on 15th Sept. 20
- ✚ "International day of Girl" child Webner for girl education done on 11th Oct. 20
- ✚ JCI award for outstanding work in the education and social work on 24th Sept. 2020 to ACF
- ✚ Sakal and Sam TV covered ACF work in tribal education on 2nd of June 2020
- ✚ Partnership and alliance with RILM India and Rotary club Chandrapur
- ✚ Community ,children become aware of corona and practiced the habit of using mask washing hands and social distance

**Observations:**

- From 2001-2006 in 5 core villages, school support programs were taken in 5 schools and the no. of students who participated were 530, main was infrastructure and educational aids.
- From 2006-2011 in 25 villages from which some were core villages and other villages, school support programs were taken in 25 schools where 1500 students participated, main was infrastructure and educational aids.

Ambuja Cement Foundation (ACF)

- From 2011-2016 in 30 villages from which some were core villages and other villages, school support programs were taken in 30 schools where 1689 students participated, main was infrastructure and educational aids.



- From 2017-2020 in 90 villages from which some were core villages and other villages, school support programs were taken in 90 schools where 5198 students participated, main was more improvement in the infrastructure, basic amenities and educational aids
- The villages were expanded into the mines areas, hence, the schools also were constructed, Bhoyegaon, Yekodi, Koutala and Nangaonsurya these were the villages where drinking water, sanitation, paver block, building reconstruction and stages due to these 3 schools from these became ISO schools.

Outcomes of programme:

- Increase 100% school in 100% enrolment and attendance
- Effective classroom process and teacher's effectiveness
- Teachers capacity building to training and school demo
- Learning assessment and children achievement school gradation of C' to A' 85% schools
- Empowerment of SMCs (School management committee) 75% schools
- Networking and collaboration with Govt. and NGOs

Impacts:

These interventions are expected, among other things, to result in following impacts:

- Higher attendance of children in the school
- Higher retention (or lower dropout) rate
- Improved learning levels of children
- Enrolment beyond primary levels (that is, beyond 8th standard)
- Childrens are studing on online education

ISO schools certify:

Ambuja Cement Foundation (ACF)

- From 2015-2017, 19 schools became ISO schools. These were from Rajura and Korpana block from 90% of core villages.



- April 20 the 13 schools became ISO certify.

New Initiatives for expansion of program

ACF has started a gap analysis on WASH program which is being conducted core villages at school level since April 20. Along with WASH program, physical activity and sports promotion will also be introduced at 15 schools in 20-21 in first phase. The selection of schools will be done on availability resources like playground, physical teacher and strength of children in that school. All core school will get cover under this intervention in phase wise manner.

**Watershed development programme: Rotary Foundation**

- The Rotary International (RI) contributed 28 lakh for the watershed program which was done in 100 hector area at a core village named Manghi Bu. and work in progress.

Skill Development Program: (SEDI) – Apr to Sept-2020

Skill & Entrepreneurship Development Institute (SEDI) 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. The certificate courses like Electrical Assistance and Carpenter are affiliated with State Council of Vocation Training. SEDI catering short duration courses like Assistant Electrician, General Duty Assistant (GDA), Fitter Fabrication, Assistant Manual Metal Arc Welding (AMMAW), Manual Metal Arc Welding (MMAW), Assistant Mason and Soft Skill.

Coverage Area: *Our coverage area of ACF location are basically Gadchandur, Rajura, Korpana, Jiwati & 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:***Pre-training -***

- Ensuring placement linkages
- Need assessment
- Community mobilization

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
- Tracking and Career Progression of each trainee for two years

Value Addition:

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



- Exposure visit

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 - Duration -3 Months
- GDA (Basic Nursing) – Duration- 6 Months
- Assistant Manual Metal Arc Welding – Duration - 2 Months
- Fitter Fabrication – Duration – 4 Months

Highlights of the SEDI:

- SEDI discovered Online Virtual classes through Google meet & Zoom app in this crucial pandemic period of COVID-19.
- SEDI-AITC is running 100% online training of all ongoing batches.
- SEDI discovering spark of entrepreneurship in trainees & motivating till date 25% 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 OH and safety.
- Focus on Quality with value added Education.
- Institute developing skills with facilitating placement & 68 % 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.

Ambuja Cement Foundation (ACF)

Networking Partners & Funding

Partners:

- NABARD
- NSDC
- GRUH Finance
- NSFDC
- MSSDS



Placement process:

- High Demand in Market- Placement Opportunities
- General duty assistant (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

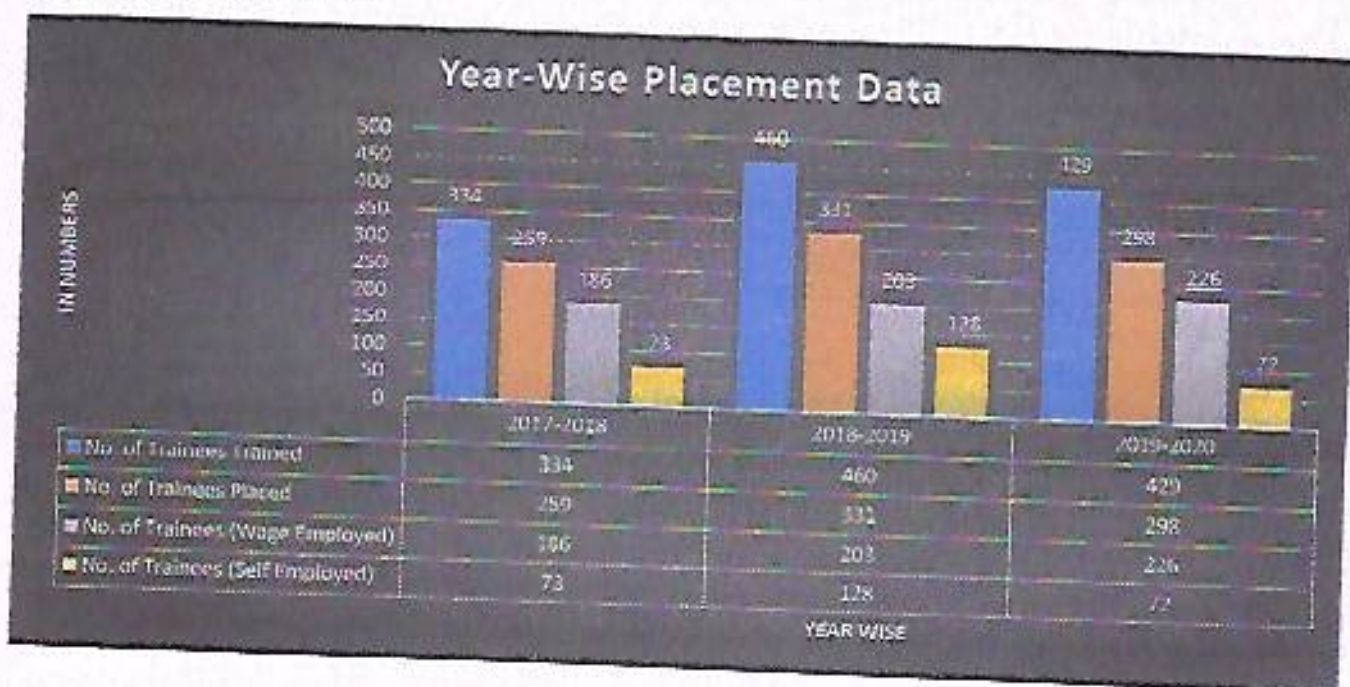
Year Wise Progress – April - 2008 to Sept – 2020:

Sr. No	Financial Year	Cumulative Training Details				Cumulative Placement Details							
		No of Batches	No. of trainees			Self Employed			Wage Employment			Grand Total	Placement %
			Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	2008_09	3	42	0	42	10	0	10	20	0	20	30	71.43%
2	2009_10	5	75	0	75	22	0	22	26	0	26	48	64.00%
3	2010_11	7	146	0	146	22	0	22	65	0	65	87	59.59%
4	2011_12	3	53	0	53	29	0	29	7	0	7	36	67.92%
5	2012_13	10	213	5	218	87	0	87	70	1	71	158	72.48%
6	2013_14	12	238	26	264	74	0	74	64	16	80	154	58.33%
7	2014_15	7	118	19	137	24	0	24	60	10	70	94	68.61%
8	2015_16	13	259	77	336	30	0	30	162	49	211	241	71.73%
9	2016_17	14	221	90	311	70	0	70	64	60	124	194	62.38%
10	2017_18	16	239	95	334	71	2	73	124	62	186	259	77.54%
11	2018_19	22	328	132	460	111	17	128	120	83	203	331	71.96%
12	2019_20	23	256	173	429	61	11	72	96	130	226	298	69.46%
Total		135	2188	617	2805	611	30	641	878	411	1289	1930	67.95%

Ongoing Batches:

S. No	Job Role / Trade Name	Batch	Duration		Enrolment Data			Dropped-out			Perusing Trainees		
			Start date	End date	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Assistant Electrician Level 3	AE-BAN-02	25-Sep-2020	24-Jan-2021	23	0	23	0	0	0	23	0	23
		AE-NSFDC-03	15-Sep-2020	14-Dec-2020	19	3	22	0	0	0	19	3	22
2	Electrical ITI	ELE-ITI-01	01-Apr-2020	31-Jul-2021	20	0	20	0	0	0	20	0	20
3	Fitter Fabrication Level 3	FF-BAN-01	15-Sep-2020	14-Jan-2021	23	0	23	0	0	0	23	0	23
		FF-NSFDC-02	01-Oct-2020	31-Jan-2021	6	10	16	0	0	0	6	10	16
4	Fitter ITI	FT-01	01-Apr-2020	31-Jul-2021	20	0	20	0	0	0	20	0	20
5	General Duty Assistant Level 4	GDA-BAN-01	17-May-2020	16-Nov-2020	1	14	15	0	2	2	1	12	13
		GDA-NSFDC-02	15-Sep-2020	14-Jan-2021	0	20	20	0	0	0	0	20	20
Total					112	47	159	0	2	2	112	45	157

Year-Wise Placement Data:



New Initiative:

- *SEDI-AITC discovered Online Virtual Training in this crucial pandemic period of COVID-19.*
- *100% online classes is conducted through Google meet & Zoom app.*
- *SEDI-AITC also provided On Job Training (OJT) to trainees.*
- *Involvement of male in nursing trainees.*
- *Networking with industries for placements.*
- *Organized campus interview.*
- *Creation of working models in various trades.*
- *Fund raising from NSFDC and GRUH Finance Ltd.*

***New Projects:***

- *NSFDC*
- *Bandhan Bank*
- *NABARD*
- *During FY- 2019-20, 406 Trainees were trained out of 331 is placed.*
- *From Apr 2020 to tillSept2020, 135 Trainees were trained and 157 are ongoing.*

SEDI has upgraded its Infrastructure & extended facilities:

- *Training on welding simulators.*
- *Initiated career Counselling center for trainees.*
- *Started the placement cell for trainees.*
- *Purchase CNC Machine to provide advance Training.*

MCW/EMD/19/2020/ 204

September 17, 2020

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

Ref: As per specific Condition of the following EC

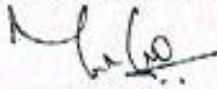
1. EC NO J-11015/399/2006-IA II(M) dtd 29.06.2007
2. EC NO J-11015/400/2006-IA II(M) dtd 29.06.2007
3. EC NO J-11016/11/2004-IA II(M) dtd 06.01.2005

Dear Sir,

Please find enclosed herewith the Monsoon season (August 2020) Ground Water Level of surrounding area of Maratha Lime stone mine. 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)



M. Sanjeeva Rao
Authorized Signatory

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)

Ground water Level Measurement Report
August 2020 (Monsoon)

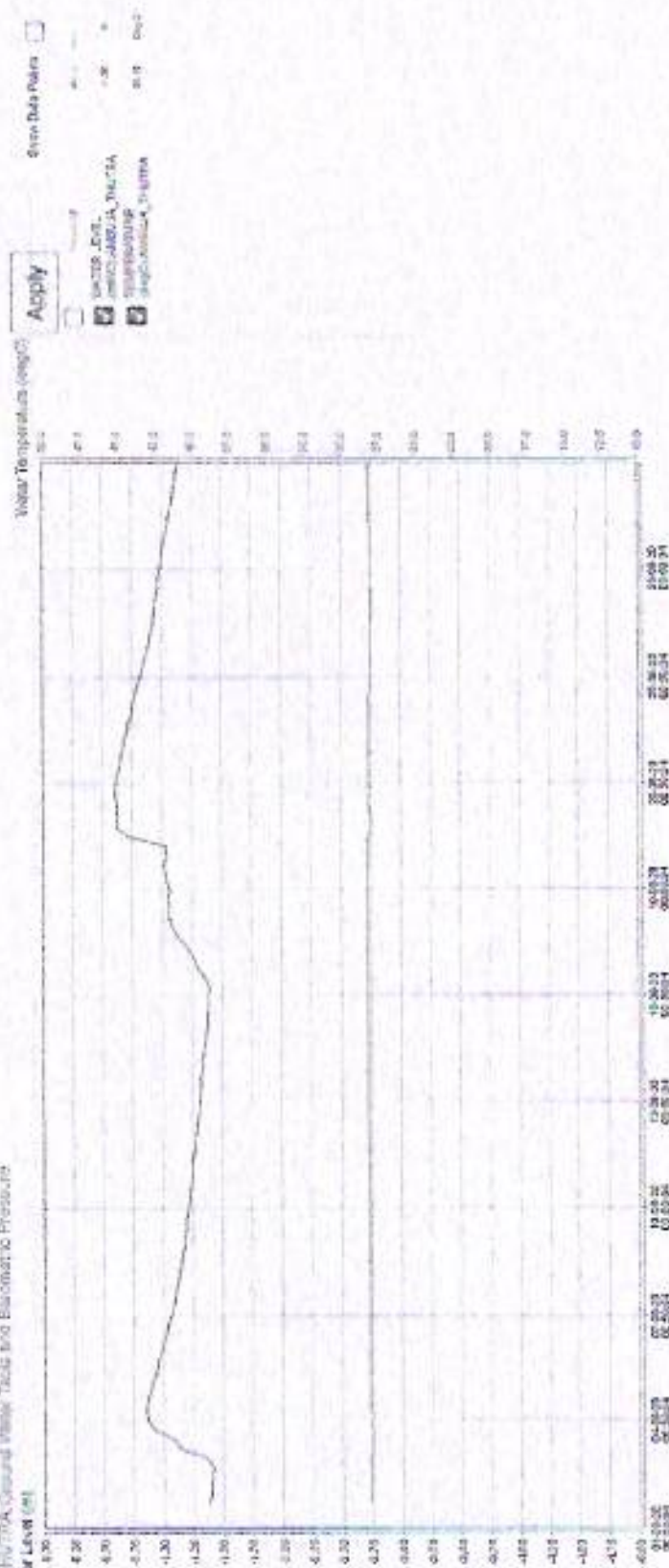
Sr. No.	Name of village	Location / Landmark of well	Location Code	Water Level (In Meter)
1	Panchgaon	Near Barikrao Atram House (Common Well)	VDW1	-0.8
2	Bhendwi (Gereguda)	Sheikh Rajjak agricultural land (Personal well)	VDW2	-0.2
3	Hirapur	Near Jaitu Meshram House (Common Well)	VDW3	-1.8
4	Sonapur	Near Gram Panchayat (Common Well)	VDW4	-3.3
5	Pandharpaoni	Near Laxshman Pendorer House (Common Well)	VDW5	-2.6
6	Chandanwahi	Near Nanji Darekar House (Common Well)	VDW6	-1.9
7	Pimpalgaon	Near Wasant Lohe (Private Well)	VDW7	-1.0
8	Thutra	Near Bobade's House (Private Well)	VDW8	-0.6
9	Upparwahi	Near Santosh Hanumante House (Common Well)	VDW9	-0.5
10	Mangi (Big)	Near Mata Temple (Common Well)	VDW10	-3.0
11	Mangi	Sawkar Well	VDW11	-3.5
12	Hardona (Khurd)	Near Ramesh Zade house	VDW12	-3.0
13	Gadchandur	Near Premchand Borkar House (Common Well)	VDW13	-1.0

14/8/20

01/17/2020

ABRILIA_TH0775A Ground Water Table and Barometric Pressure
Ground Water Level (m)

Encardio Rite Diving Graph Pro



100

01/12/2020

AMBLER PLANT MAIN GATE Ground Water Table and Barometric Pressure
Ground Water Level (m)

End of Rise Driest Green Print



W02

9/17/2020

AMBUJA_MAGAZINE AREA Ground Water Table and Bottoming Pressure
Gross Water Level (m)

Encanto Riva Grand Graphing

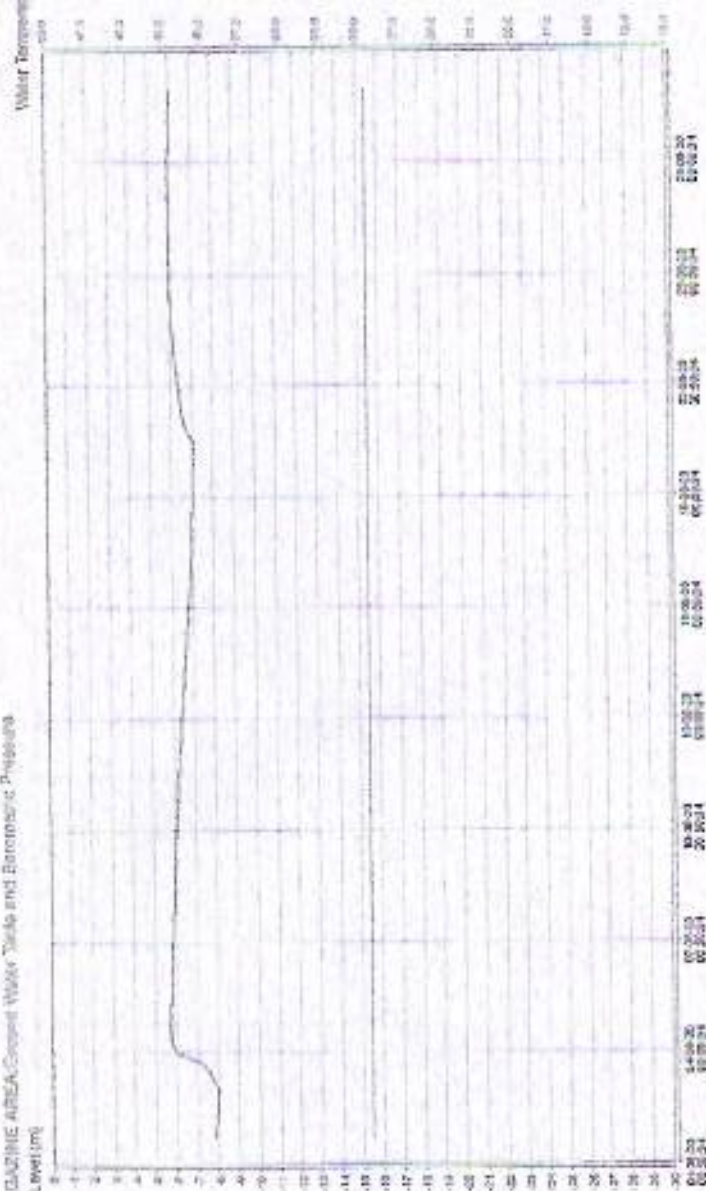
Water Temperature (degC)

Apply

Show Data Points

☒ WATER LEVEL
☒ GROUND WATER TABLE
☒ BOTTOMING PRESSURE
☐ TEMPERATURE

UNIT: mm
 SCALE: 1:100
 DATE: 9/17/2020



WZ

9/17/2020

AMINUA_NEAR_CEMENT_MILL Ground: Water Table and Dissolved Pressure
Ground Water Level (ft)

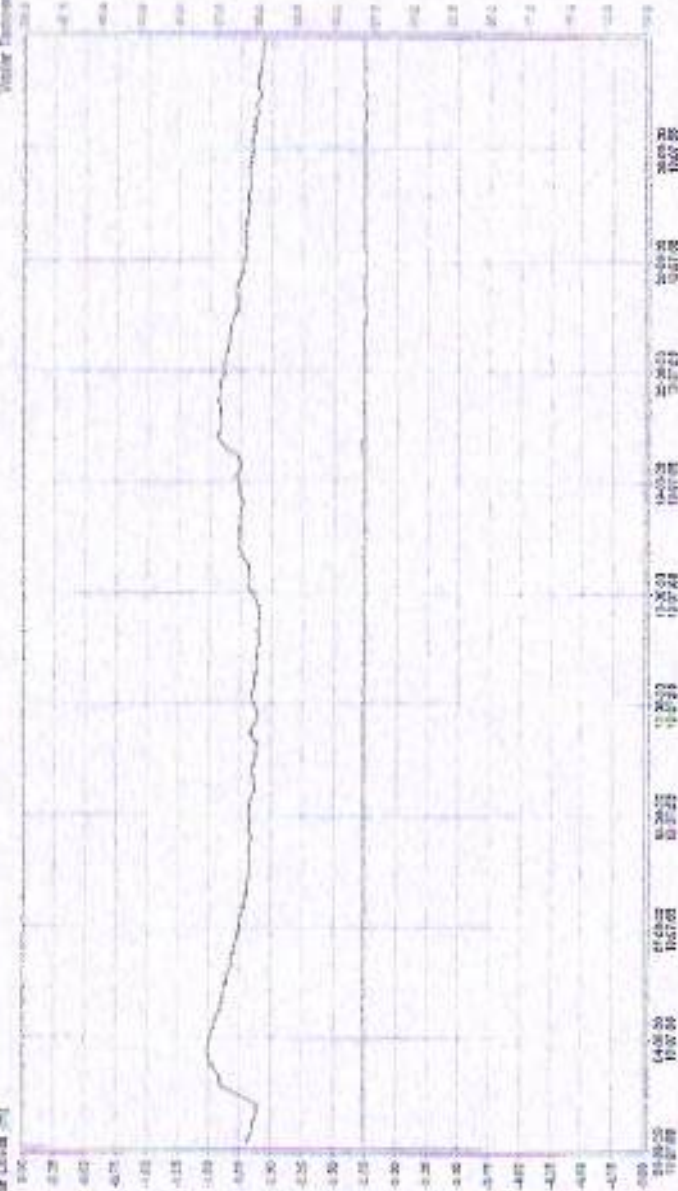
Encanto Reservoir Graph Pt. 1

Water Temperature (degC)

Apply

☐ WATER LEVEL
☒ DRAINAGE/ANALYSIS
☒ TEST/ANALYSIS
☒ ANALYSIS/ANALYSIS
☐ ANALYSIS/ANALYSIS

☐ Data Points
☐ Data Points
☐ Data Points



WPT

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, 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 2020 To 30th September 2020)

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	18.44	50.04	7.38	18.28
2	Guest House (Near Bachelor Accommodation)	0.5	SE	19.28	52.76	7.64	20.05
3	L.S. Crusher	0.1	W	22.17	54.78	9.60	20.87
4	Near magazine Section	1.5	SW	17.66	50.46	6.31	17.72
5	Near Water Pond	2	NW	17.80	50.02	7.21	17.82

Note: - All the values are Monthly Average Values.

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.



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 Upparwahi)
Fugitive Emission Monitoring Results

Six Monthly Average Values of Fugitive Emission Monitoring
 (From April - 2020 To September - 2020)

Sr.NO.	Location	SPM in ($\mu\text{g}/\text{M}^3$)	CPCB Standard ($\mu\text{g}/\text{M}^3$)
1	Limestone stockpile area	832	5000
2	Near Mines Site Office	902	
3	Mines Haul Road	1354	
4	Near Limestone Crusher	1121	

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 2020 To 30th September 2020)

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-20	*	*	*	*	*	*	*	*	*	*
May-20	42.6	40.2	41.4	40.5	68.3	66.8	41.5	40.4	46.7	45.3
Jun-20	43.7	41.5	40.7	39.2	69.1	67.4	41.9	40	45.5	44.2
Jul-20	44.3	42.4	41.5	39.3	68.6	66.6	40.7	39.8	44.3	43.6
Aug-20	44.8	43.7	42.7	39.8	68.0	66.3	41.5	39.2	44.7	42.7
Sep-20	44.2	43.1	43.6	41.4	68.5	67.7	40.7	39.1	43.2	42.1

* Plant was under LOCKDOWN due to COVID-19 pandemic

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	Filtration 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 - 2020 To 30th September - 2020)

Sr.No.	Stack Attached to	Stack Height (m)	Velocity (m/sec)	Particulate Matter (mg/Nm ³)
1	L.S.Crusher B/F	30	8.24	13.28

Note : Values are Monthly Average Values.