

MCW / EMD / 12 / 2024/ 615

May 24, 2024

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

Kind Attn: - **Additional Director**

Sub : Submission of Half yearly monitoring report for the period of **October 2023 to March 2024** of M/s Ambuja Cements Ltd. (Unit: Maratha Cement Works, Upparwahi), Chandrapur (Maharashtra)

Ref: 1. EC No. J-11016/11/2004 – IA – II (M), Dtd. 06.01.2005

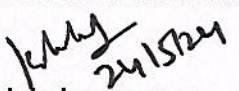
2. EC Identification No. EC22B001MH193507, Date of Issue EC - 06.08.2022

Dear Sir,

This has with reference to the above referred EC & the subject matter; we are submitting herewith six monthly compliance report (for the Period of October 2023 to March 2024) 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)


K Subbulakshmanan
Chief Operations Manager

Encl :- a/a

- CC: 1. Central Pollution Control Board
Survey No. 110,
Dhankude Multipurpose Hall (PMC),
Near Fab India, Baner Road,
Baner, Pune - 411 045
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.)

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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 01.10.2023 to 31.03.2024

(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.	Complied. Stacked top soil is being used for greenbelt development and overburden stabilization. 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.	Complied. 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.	Complied. We have 3 nos of Atlas Copco drill machines which are fitted not only with wet drilling system but dust extractor also. We are doing controlled blasting by using nonel as Down the Hole as well as trunk line delay connectors. Photographs are attached as an Annexure -2.
(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	Complied. 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	Complied. Limestone mine is surrounded with other existing mining leases. Till date Around 393336 trees have been planted in the total mining lease area. The density of plantation is 2498 plant/Ha. The details are enclosed

	Department. At least 2500 plant species/ha should be planted.	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.	Complied. 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.	Complied. 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	Complied. Consent to Operate obtained from MPCB Vide letter No. Format 1.0 / CC / UAN No. MPCB CONSENT - 0000158965 / CR / 2311001463, dated 18.11.2023 Valid upto 31.03.2028.
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 SO2. Location of the ambient air quality stations should be decided based on 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.	Complied. AAQMS established in the core zone and regular monitoring being done. The details are enclosed as Annexure – 9.

(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. The details are enclosed as Annexure – 15, 9 and 12 . Last report submitted on 27.11.2023.
(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.	Complied. 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 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.	Complied. 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.	Complied. 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 taken, if required.	Complied. 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 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.	Complied. 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.	Complied. 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.	Complied. The year- wise expenses for last 3 years are as follows: <table><tr><th>Year</th><th>Expenses (Rs. Crs.)</th></tr><tr><td>2021-22</td><td>11.40</td></tr><tr><td>2022-23</td><td>16.63</td></tr><tr><td>2023-24</td><td>58.41*</td></tr></table> <p>Expenses inclusive of Cement Plant, CPP & Mines *Recurring Environmental Expenditure of Plant & CPP = 7.56 Crs & Mines = 0.74 Crs. Capital Expenditure = 50.11 Crs.</p>	Year	Expenses (Rs. Crs.)	2021-22	11.40	2022-23	16.63	2023-24	58.41*
Year	Expenses (Rs. Crs.)									
2021-22	11.40									
2022-23	16.63									
2023-24	58.41*									
(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.								
(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. The advertisement was given in two local newspapers i.e Mahavidarbha & Lokmat on 25.01.2005 & 28.01.2005 respectively and the copy of the same was submitted. The details enclosed as Annexure -16 .
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.

**COMPLIANCE STATUS OF MoEFCC EC CONDITIONS OF
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Period from 01.10.2023 to 31.03.2024

(EC Identification No. EC22B001MH193507, Date of Issue EC - 06.08.2022)

Sr. No.	Condition	Status/Report
A.	Specific Conditions: SEAC Conditions-	
1.	PP to obtain permission from the water Resource department for lifting water from Pagdiguddam dam.	Complied. Permission obtained from Irrigation department, Govt. of Maharashtra for lifting water from Pagdiguddam dam.
2.	PP proposes to develop green belt in the premises by planting 568635 nos. of indigenous trees with provision of drip irrigation.	Complied. Limestone mine is surrounded with other existing mining leases. Till date Around 393336 trees have been planted in the total mining lease area. The density of plantation is 2498 plant/Ha. The details are enclosed as Annexure – 4, 1 & 2.
3.	PP take utmost care while closing the mine pit to avoid any unforeseen accident.	Noted. Mine pit will be closed with utmost care as per IBM guidelines.
4.	PP to appoint qualified foreman as a Mine Manager approved by Director General of Mine to ensure safety of the staff / labours appointed at mine site.	Complied. Mine Manager appointed as per DGM guidelines to ensure safety of the staff / labours appointed at mine site.
5.	PP to prepare adequate capacity approach roads to the proposed mine area so as to ensure safe plying of the heavy vehicles engaged on mine site for transport of mined material and to avoid any unforeseen accident. PP to plant trees along the road.	Complied. Adequate capacity approach roads to the mine area has been developed to ensure safe plying of the heavy vehicles engaged on mine site for transport of mined material and to avoid any unforeseen accident. Trees have been / are being planted along the road.
6.	PP to provide movable toilets/ bio toilets to the workers working in the area and the sewage generated shall be properly collected and so as to confirm to the standards prescribed by MoEF & CC and CPCB.	Complied. STP has been provided for treatment of sewage generated from mines area and it confirms to the standards prescribed by MoEF & CC and CPCB.
7.	PP to provide First Aid Facility at the proposed mining site.	Complied. Occupational Health Centre (OHC) has been established to provide health care facility to the employees and workers working at the mining site.
8.	PP to implement mine closure plan as approved by the competent Authority. PP to provide adequate strength	Complied. Mine closure plan will be implemented as

	fencing to the mining lease area to ensure safety of animals and humans.	approved by IBM. Safety of animals and humans will be ensured in the mining lease area.
9.	The mining lease holder shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc.	Noted. Mining closer plan will be implemented as approved by IBM after ceasing of mining operations.
10.	PP to obtain all necessary NOC's / Permissions from the competent Authority before commencing any work on proposed site.	Complied. This is an operational mine and all necessary NOC's / Permissions has been obtained from the competent Authority for mine operations.
11.	PP to ensure that no mining shall be done below the depth as approved in the mining plan.	Noted. Mining will be done as per approved mine plan.
12.	PP to ensure that, the quarrying is proposed above the level of aquifer to avoid the ground water contamination/ degradation of water quality of aquifer. PP to take adequate measures / precautions to avoid contamination/degradation of ground water.	Complied. Adequate measures / precautions will be taken to avoid contamination / degradation of ground water.
13.	PP to ensure no natural water stream is diverted due to proposed quarrying activity.	Complied. No natural water stream will diverted due to quarrying activity.
14.	PP to ensure that mining / loading activity shall be restricted to day hours' time only. No mining activity shall be carried out after sunset and before sun rise.	Complied. Mining activity is being done as per approved mine plan by IBM.
15.	PP to provide adequate channels to guide the rain water to reach the mined pit and to avoid any unforeseen incident.	Complied. Rainwater is channelized to mine pit to avoid any unforeseen incident.
16.	PP to adhere to the provisions stipulated Maharashtra Minor Mineral Extraction (Development and Regulation) Rules, 2013, guidelines issued by MoEF & CC and any other legal requirements as applicable to the proposed activity.	Noted.
17.	PP to ensure strict compliance of all conditions stipulated in the Environmental Clearance.	Noted. Conditions stipulated in the Environmental Clearance will be complied off.
18.	PP to ensure that there is no damage to any fauna and its nesting close to the proposed mining area.	Noted. No damage to any fauna and its nesting will be done due to mining activity.
19.	PP to ensure that, the overburden be stored on site and shall be used for refilling of mine pit.	Complied. Overburden is stored on site and will be used for refilling of mine pit as and when required

20.	PP to ensure that adequate measures like maintenance of road, sprinkling of water and plantation is carried out to reduce the dust particulate matter pollution.	Complied. Adequate measures like maintenance of road, sprinkling of water and plantation is being regularly carried out to reduce the dust particulate matter pollution.
21.	PP to ensure that public road are not used for parking purpose. Parking shall be on pre decided place only.	Noted. Public road will not be used for parking purpose. Vehicles are being parked at designated parking area.
22.	The transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Noted. The transportation will be carried out through the covered trucks only and the vehicles carrying the mineral will not be overloaded.
23.	PP to provide solar energy, Gents/Ladies sanitation, safe drinking water facility in the ZP School in village Sonapur, Thutra from their CER funds in consultation with the District Authority.	Complied. Our CSR wing ACF is working in the nearby villages including Sonapur and Thutra and providing all necessary support to the ZP schools in consultation with the concerned authority.
24.	The District collector shall ensure proper approach road to the proposed quarry area before granting final lease.	Complied. This is a working mine and proper approach road is available to quarry area.
25.	If the proposed stone quarry mining site is situated within distance of 10 KMs from the Notified Wild Life Sanctuary, then, The District Collector shall ensure that , final mining lease to the PP is issued only after clearance from concern Competent Authority of Forest Department (Wild Life) for cutting of trees and non – forest use of the land.	Noted. No, Notified Wild Life Sanctuary is situated within a distance of 10 kms from the mining lease area.
SEIAA Conditions:		
1.	PP to ensure that, there shall not be any adverse effect on neighboring cultivable agricultural land.	Noted. Proper and adequate measures will be taken to ensure that, there is not any adverse effect on neighboring cultivable agricultural land.
2.	PP to ensure additional air quality monitoring station around the periphery of nearest human settlements.	Complied. We have installed one Ambient Air quality monitoring station in North west direction. Apart from that we have also installed four AAQ station in other directions. We have also installed three nos. of continuous ambient air monitoring stations in consultation with MPCB.
3.	PP to ensure that, as submitted in detail in SEIAA meeting, all mitigation and monitoring measures to be	Complied. All mitigation and monitoring measures are

	followed especially around the vicinity of nearest Village/ human settlements.	followed especially around the vicinity of nearest Village / human settlements.
4.	Blasting, crushing and transportation of crushed material should be carried out under covered conditions to avoid any kind of dust pollution.	Complied. For transportation of material, Permanent water sprinkling system has been installed along the haul road & Water sprinkling on haulage roads regularly done through Water tanker, which have been installed by modification of a BEML dumper. Control Blasting adopted to reduce dust generation, and in crusher area automatic water spray system has been installed.
5.	PP shall employ dust suppression measures by use of water sprinklers, foggers etc.	Complied. Permanent water sprinkling system has been installed along the haul road & Water sprinkling on haulage roads regularly done through Water tanker, which have been installed by modification of a BEML dumper.
6.	No hill cutting should be allowed during the quarrying.	Noted. No hill exists in this ML area; the area is more or less and topographically flat in nature.
7.	PP shall undertake to plant 1240 number of trees along lease boundary in the 7.5 m safety belt & 635 numbers of trees shall be planted. PP to ensure that trees should be of 12-24 months old having 6-8 ft height of indigenous species to ensure shade, greenery and air pollution mitigation measures.	Complied. The mining lease area is contiguous with the other two leases of Maratha Limestone Mine. The three leases are operated as a single mine. The mining lease area is mineral bearing and the entire area is under active mining zone. As such no green belt is proposed in the lease area. However, Plantation and greenery development as envisaged in the other two leases will be undertaken.
8.	PP to submit images of the tree plantation as above with latitude-longitude (lat-long) to the DMO/ District collector every quarter, capturing number of trees, growth & survival of trees.	Complied. The mining lease area is contiguous with the other two leases of Maratha Limestone Mine. The three leases are operated as a single mine. The mining lease area is mineral bearing and the entire area is under active mining zone. As such no green belt is proposed in the lease area. However, Plantation and greenery development as envisaged in the other two leases will be undertaken. The plantation details are submitted regularly to the concerned

		authority regularly. The plantation detail enclosed as Annexure – 4, 1 & 2.
9.	PP to ensure 100% survival of trees, in case of any non-survival compensatory plantation should be taken up.	Complied. 100% survivals of trees are ensured. However, in case of any non-survival compensatory plantation is being done.
10.	DMO to ensure SEAC & SEIAA conditions strictly complied with.	Noted.
11.	District collector to personally ensure by devising suitable Standard Operating procedure (SOP) for -	Noted.
a.	Quantity of excavation does not exceed approved quantity as certified by Deputy Director, Directorate of Geology & Mining Department, and Government of Maharashtra.	Complied. Excavation is done for the approved Quantity only.
b.	Strict observance of terms and conditions imposed by Explosive Department.	Complied. Terms and conditions of Explosive Departments are being complied off.
c.	Strict observance of conditions 7 and 8 above.	Noted.
General Conditions:		
I.	The validity period of the EC will be for 7 years as per MoEF & CC Notification dated 29th April, 2015 but limited to period of lease.	Noted.
II.	No hill cutting should be allowed during the quarrying. No aquifers should be disturbed either by blasting or by quarrying.	Noted. No hill exists in this ML area; the area is more or less and topographically flat in nature.
III.	Blasting Crushing & transportation of crush material should be carried out under covered conditions to avoid any kind of dust pollution.	Complied. Permanent water sprinkling system has been installed along the haul road & Water sprinkling on haulage roads regularly done through Water tanker, which have been installed by modification of a BEML dumper.
IV.	PP shall employ dust suppression measures by use of water sprinklers, foggers, etc.	Complied. Permanent water sprinkling system has been installed along the haul road & Water sprinkling on haulage roads regularly done through Water tanker, which have been installed by modification of a BEML dumper.
V.	The PP shall undertake 2 rows of tree plantation along the lease boundary. Dust absorbing trees shall be planted.	Complied. The mining lease area is contiguous with the other two leases of Maratha Limestone Mine. The three leases are operated as a

		single mine. The mining lease area is mineral bearing and the entire area is under active mining zone. As such no green belt is proposed in the lease area. However, Plantation and greenery development as envisaged in the other two leases will be undertaken.
VI.	Quarrying allowed only in the recharge zone of hills, not in run off or storage zone. For this purpose, GSDA should be involved to carry out intensive geophysical survey to identify such recharge zone where quarrying can be allowed.	Noted. The area where mining activities are in progress is topographically flat in nature.
VII.	The mining plan shall be approved first before initiating any mining operation.	Complied. Mining plan approval obtained before starting the mining operations as per rules, now it is being revised once in every five year as per IBM guidelines.
VIII.	Discharge of sewage from quarry sites should be strictly controlled.	Complied. There is no sewage discharge from quarry sites, STP provided for treatment of sewage.
IX.	The quarries to maintain benches of 60 slope in the cut, 6 m depth in cut and 6 m for the bench. No dumping of material shall be allowed in the water resources of Nallas.	Complied. We strictly follow scientific mining practices & benches are maintained as per MMR guidelines.
X.	No quarrying should be allowed in the run of zone of hilly areas.	Noted. No hill exists in this ML area; the area is more or less and topographically flat in nature.
XI.	After mining extraction is completed, the existing pit on site must be filled up and the closure must be supervised and certified by the District Mining Officer.	Noted. After mining extraction is completed, the mining closer plan will be implemented.
XII.	No quarry shall be allowed within safe distance from any habitation or human activity.	Noted. There is no habitation or human activity present in the adjoining area of the lease boundary.
XIII.	District Collector will take bank guarantee of Rs. 200000/- OR upto 2% of the annual royalty, whichever is higher, for the given lease holder to ensure the compliance of the conditions stipulated. In case of violation of stipulated conditions by project proponent bank guarantee so obtained shall be forfeited and legal action under the law should be initiated against such project proponent.	Noted.
XIV.	It shall be ensured that there is no fauna dependent on the area close to mining for its nesting.	Noted.

		There is no fauna dependent on the area close to mining for its nesting.
XV.	To prevent dust / particulate matter pollution, the lease holder shall take up tree plantation in an area 10 m from the boundary of the lease area and also on either side of the road leading to the quarry from the already surface road.	Complied. The mining lease area is contiguous with the other two leases of Maratha Limestone Mine. The three leases are operated as a single mine. The mining lease area is mineral bearing and the entire area is under active mining zone. As such no green belt is proposed in the lease area. However, Plantation and greenery development as envisaged in the other two leases will be undertaken. To control dust emission permanent water sprinkling system has been installed along the haul road & Water sprinkling on haulage roads regularly done through Water tanker, which have been installed by modification of a BEML dumper.
XVI.	District Collector to ensure that the provisions stipulated in Maharashtra Minor Minerals Extraction (Development and Regulation) Rules shall be strictly adhered to.	Noted. We are carrying out Limestone mining and it falls under Major mineral category.
XVII.	The configuration of benches should be 60 degrees slope in the cut, 6 mt depth for cut and 6 mt. Width for the bench. PP shall ensure that no quarrying is carried out in forest or zudpi jungle No water sources shall be affected due to quarrying activity. All labor engaged in quarrying will be provided with protective gears like mask, helmets, boots etc.	Complied. We strictly follow scientific mining practices & benches are maintained as per MMF guidelines. There is no forest area within the mining lease. All labor engaged in quarrying is being provided with protective gears like mask, helmets, boots, etc.
XVIII.	District Collector to ensure that distance between one lease area and another lease area or clusters of lease area is more than 500 m.	Noted.
XIX.	Project Proponent to ensure that vehicles transporting stone should not be overloaded beyond started capacity also to ensure that there is no violation of the Hon'ble NGT, Hon'ble Supreme Court order given in related matters.	Complied. Weight-o-meter has been installed in the Dumper cabin by OEM (Original equipment manufacturer) to ensure that the vehicles are not overloaded.
XX.	PP to prepare Mine closure plan and get it approved by the competent authority, PP will be held responsible personally for non-compliance of the conditions stipulated in the Environmental clearance and shall be liable for legal action under Environment (Protection) Act of 1986.	Noted. Mine closure plan already approved from IBM along with the review of mining plan.

XXI.	Transport of stone should be by vehicles which are properly covered with Tarpaulin and it should not be overloaded.	Noted. The transportation will be carried out through the covered trucks only and the vehicles carrying the mineral will not be overloaded.
XXII.	The lease holder shall undertake adequate safeguard measures during extraction of material and ensure that due to the activity, the hydro-geological regime of the surrounding area is not affected. The depth of quarrying should be above the levels of aquifers to avoid the contamination/ degradation of water quality of aquifers. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out. District Collector / mining officer shall ensure this.	Complied. Adequate measures / precautions will be taken to avoid contamination / degradation of ground water. Groundwater level and quality regularly monitored and report submitted to CGWB and MoEFCC. A copy of report enclosed as Annexure – 7 .
XXIII.	Effective safeguards, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Water sprinkling shall also be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. The status of implementation of measures taken shall be reported to Environment Department.	Complied. To control fugitive emission we are using Drill machine with inbuilt dust extraction system. Regular water spraying on haul roads and crusher hopper to control the fugitive dust. The details are enclosed as Annexure – 2 & 10 . We have provided permanent water sprinklers on the mines road. The fugitive emission monitoring report is enclosed as Annexure – 11 . AAQMS established with approval of MPCB and regular monitoring being done and reports submitted to MPCB & MoEFCC. The details are enclosed as Annexure - 9 .
XXIV.	This Environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance granted does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	Noted. No forest land exists in this mining lease.
4.	The Environmental clearance is being issued without prejudice to the action initiated under EP act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on	Noted.

	the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him. If any or action initiated under EP Act.	
5.	In case of submission of false document and non compliance of stipulated conditions, Authority / Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act 1986.	Noted.
6.	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted.
7.	Validity of Environment Clearance; The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended from time to time.	Noted.
8.	In case of any deviation or alteration in the project proposed from those submitted to this department from clearance, a fresh reference should be made to the department to assess the adequacy of the condition (s) imposed and to incorporate additional environmental protection measures required, if any.	Noted.
9.	The above stipulations would be enforced among others under the Water (prevention and Control of Pollution) Act 1981, and Environment (Protection) Act 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.	Noted.
10.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune). New Administrative Building, 1st Floor, D Wing, Opposite Council Hall, Pune, if preferred within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	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

Annexure - 3

Details of Retaining wall, Garland drain, Settling pond and Berns as on 31.03.2024										
Name of the mine	Area (ha)	Dump Protective measures						Pit Berm	Remark	
		Retaining wall construction (Mtrs)		Garland drains (mtrs)		Settling pond (Sq,m)				Berm (Mtrs)
		Prepared	Cumulative (as on 31.03.2024)	Prepared	Cumulative (as on 31.03.2024)	Prepared	Cumulative (as on 31.03.2024)			
ML-III	49.00	0	0	0	802	0	1013	5	1248	Garland drain & Settling Pond :Already made earlier in North-east direction of the lease area & only being maintain in time to time.

Tree Plantation details as on March 2024

Sl. No.	Location	Upto 2016	2017	2018	2019	2020	2021	2022	2023	Total plantation	Area in Ha.
1	Plant	47597	0	0	0	0	0	0	0	47597	16.25
	Infilling	992	673	0	0	0	0	0	4400	6065	
2	Colony	50140	0	0	0	0	0	0	0	50140	19.076
	Infilling	1270						0	0	1270	
3	Mines	315804	15632	18100	15000	8800	5000	10000	5000	393336	
	Infilling	22300	400	2000	4000			0	0	28700	157.49
	Jatropha plantation	7000								7000	
4	App. Road / transportnagar	3565	63	570				0	0	4198	7 km
5	Avenue plantation	6570	0	0	0	0		0	0	6570	5 KM
	Infilling	450								450	
6	Other plantation in villages	51634	2575	2300	0	0	3939	7030	10505	77983	23.57
	Total plantation Nos.	507322	19,343	22,970	19,000	8,800	8,939	17,030	19,905	623309	

Rainwater Harvesting

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



Ambuja Cement Foundation, Chandrapur **A Brief report of CSR (Oct'23 To March'24)**

Introduction

ACF, a social arms of Ambuja Cement Ltd., working for sustainable livelihood and social development for surrounding communities. ACF provides a set of community development services through the Health and Sanitation, School support program, Agro base livelihood, women empowerment, Water resource & Infrastructure development and skill Entrepreneurship development program (SEDI) etc. The thrust area of ACF Chandrapur is integrated development carried out through various intervention. The programs in the community are spearheaded by sakhis, field facilitators and volunteers, who are trained and competent to provide livelihood services for empowering the rural community. ACF, Chandrapur is operating in 2 districts namely Chandrapur and Nagpur. At Chandrapur covering 04 blocks like Jiwati, Rajura, Korpana and Warora and Nagpur covering Hingna, Saoner, Umred & Kalmeshwar blocks. Working 1101 villages over 100118 farmers. Including 20 core villages of company surrounding area. The thrust area of ACF Chandrapur is integrated development.

Water Resource Management

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 Repairing of existing check dam, De-silting of existing check dam, Construction of farm pond, Terrace farming, Drinking water facility etc.

De-silting and rejuvenation of water bodies

No of water bodies – 18 No

Quantity of silt excavated – 40558 Cum

Farmers Benefitted – 193 Household

Farm Area to spread silt – 115 acr

Existing water bodies in our area has been filled by silt and hence water storage capacity and irrigation potential is decreased year by year. Hence, we insatiate the de-silted of this water bodies from 2021. In this period we de-silted 28 water bodies from Jiwati, Upparwahi, Hingna location.

At the same time people were facing water crises for crop cultivation and also water bodies were stagnant due to deposited muddy soil in it from sloppy lands.

Soil Erosion along with water erosion is a major issue to tackle these issues de-silting works as a recycling model.



We have identified 30 accessible sites for de-silting work and from where farmers can easily carry silt to their respective farm. Earlier community were unknown of the benefits of de-silting but with the efforts of Field facilitators awareness sessions has been carried out and they explained to the farmers that de-silting work is beneficial for both, water conservation and soil health. Eroded soil from the sloppy field deposited to check dams has a great importance for crop health management as it provides nutrients and also leads to less use on synthetic chemical fertilizers.

De-silting work has been done at 59 water bodies and total 40558 cum silt excavated and excavated silt is spread on acres of field in 14 villages and total 193 farmers are benefited by this activity.

Benefits of Desalting

1. Community awareness on Soil & Water.
2. Water Storage capacity increases.
3. Application of Fertile soil on field.
4. Deepening of check dams, ponds etc.
5. Rejuvenation of water bodies.



Farm Pond

Farm Pond – 240

Beneficiaries – 240 farmers

Water storage capacity created – 258720 Cum

Farm pond are small water bodies 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, and it is useful as drinking water for cattle's during drought situation. It Conserve soil and moisture. As per our completed farm pond we conserve and harvest the 3600 cum water in one farm pond.



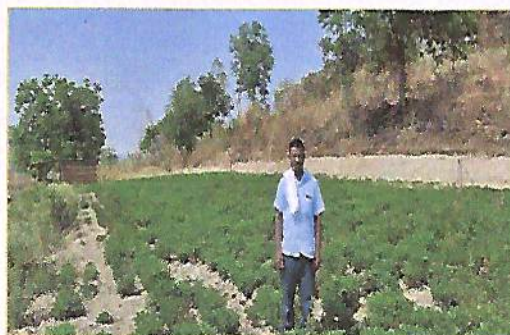
Terrace Farming / Land levelling

No of farmers benefitted - 51

Area Covered – 51 Acr

- Terrace farming is a method of farming whereby "steps" known as terraces are built onto the slopes of hills to be used for crop cultivation. Terrace farming prevents the washing away of soil nutrients by the rains. This leads to the growth of healthy crops. Secondly, it prevents the carrying away of plants by the heavy rain. Sometimes rain water carries away the crops leading to low crop yield. Thirdly, terraces help in reduction of soil erosion and water loss. The fourth benefit of terrace

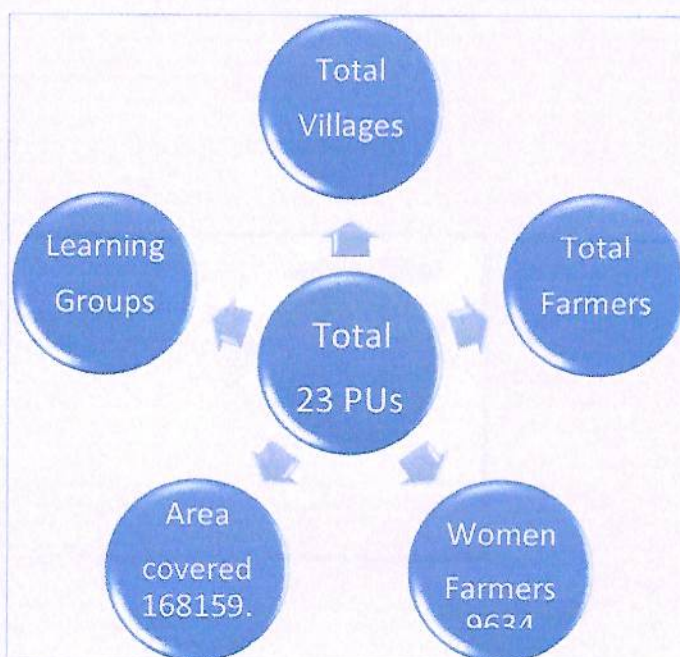
farming is that it has made the idle hillside land become productive. Lastly, terraces trap rainwater allowing the people to engage in cultivation of water-intensive crops.



Agro-based Livelihood

Better Cotton Project

ACF, Chandrapur is implementing Better Cotton project since 2009 in adjoining villages of Maratha Cement Work and the expansion of the BCI project started in the year 2012. Today ACF-BCI Chandrapur is working with more than 1 lakh farmers from 1101 villages in Rajura, Jiwati, Korpana, Bhadravati, Chimur, Chandrapur, Warora blocks of Chandrapur district and Hingna, Nagpur Grameen, Kalmeshwar, Saoner, Bhiwapur, Umred blocks of Nagpur district. This project is solely focused on cotton farming where cotton farmers get trained in sustainable farming practices and are licensed to grow Better Cotton.



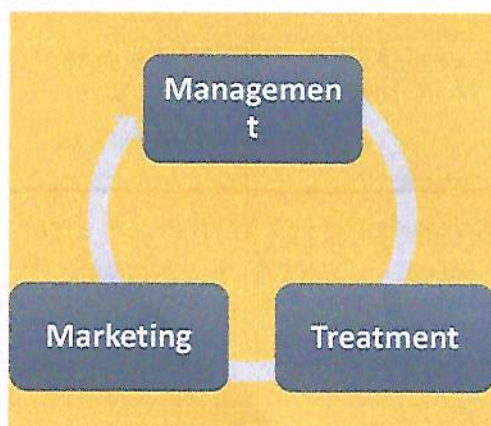
- In staff Gender ratio 61.6% of Male & 38.4% of Female, it is our strength for creating the awareness of Male & Female farmers.
- Decline in use of chemical fertilizer up to 26.47%, Pesticides 27.24% & Increased Bio-pesticides use in last 3-4 years.
- Under Water Stewardship (judicious use of available water) demonstration, we have covered 3849 community people to increase the importance of water and use the advance micro irrigation technologies to save the water like low-cost drip irrigation systems.
- Promotion of 1043 Low-Cost drip, it will increase the productivity as well as help in water conservation. It also irrigated 422 Ha farm land and covered 952 farmers under this activity.
- 858 demonstrations on decomposition and enrichment of farm yard manures. Through decomposing materials to care soil health as well as increasing the yield and quality of produce.
- 10015 farmers visited the demonstration plots of composting from Oct-2023 to Mar-2024 and learned the demonstration activities.

- 155 demonstration on cotton stalk incorporation covered 1462 farmers under this activity.
- The farmers visited to demonstration on INM, IPM, Intercrop plots were 2150, 10169 and 5608 respectively.
- 51 SHGs involved in the Bio-pesticide preparation and produce 4000 litres of Bio-pesticide. Out of this, 1800 litres of Bio-pesticide were used in self farm and 1550 litres were sale in outside market. This activity generate the income of 50500 Rs. to the SHG.
- 110 Animal health camp conducted which covered 3459 HH.
- 4 Tricocard Lab installation by 4 SHGs, two at Warora, one at Hingna and one at Upparwahi.
- Support to landless and marginal women farmers with 360 goat units as additional source of income for better livelihood

Animal Husbandry (Livestock Management Program)



ACF, Chandrapur is implementing Livestock Management program (Animal Husbandry) since January 2018. Today ABLP-Livestock Management Program (Animal Husbandry), Chandrapur is working with **22000 families** which are from landless, marginal, small, medium & large farmer families from Rajura, Korpana & Jiwati. Under the program **76 Pashu Swatha Sakhies (PSS)** are involve and they are providing door stapes services to livestock families. Under the program we covered total **161 village (83 from Chandrapur & 88 from Nagpur)**. We are focusing on to build the capacity of farmer families(Male & Women) purpose of to increase farm based alien business as like Goatary rearing & selling unit, Poultry rearing (started from Oct.2021) for chicken center, production of Desi eggs and support to Large & milk cattle (Cow & Buffalo management & dairy development program started from November 2022.) In the livestock Management Program, we covered needy, interested, poor, SF & MF farmer families for increasing their financial & social status.



Total working area: 4 Block of
Chandrapur district
(Names are Rajura, Korpana & Jiwati)

Rajura	: 36 villages
Korpana	: 32 villages
Jiwati	: 15 villages
Warora	: 36 villages
<u>Total Chandrapur</u>	<u>: 83</u>
Nagpur	88 villages

- **Management:** Deworming, Vaccination, Feed, Water, Shade management, *Memna* nursery, Breed improvement.
- **Treatment:** Primary treatment, Support during critical delivery, Health care services, Breed improvement, AI.
- **Marketing:** Collective method, Weight based, Village level marketing.

Objective:

The focus of the program is on entrepreneurship development and breed improvement in goat, poultry and milk cattle including feed, fodder & marketing development.

The program is implemented with the following Sub-Missions:

- Farm based entrepreneurship development.
- On Breed Development of Goat, Poultry and milk cattle.
- On Feed and Fodder development and promotion.
- Mission on Promotion, Extension, Innovation, Government schemes and others.
- Revolving Goat unit
- Goat service centre.

On Breed Development of Livestock, Goat & Poultry:-

The program proposes to bring sharp focus on entrepreneurship development and breed improvement in goat, Poultry and Milk cattle by providing the incentivization to the individual, SHGs and FPOs for entrepreneurship development and for breed improvement infrastructure.

On Feed and Fodder development:

The program aims towards strengthening of fodder seed chain to improve availability of certified fodder seed required for fodder production and encouraging entrepreneurs for establishment of fodder Block/Hey Bailing/Silage Making Units/Dana misran through incentivization.

On Research & Development, Livestock Insurance, Extension, Innovation and support from Government and others:

The program aims to incentivize the Institutes, Universities, Organizations caring out research and development related to goat, poultry and feed and fodder sector, extension activities, livestock insurance and innovation.

PSS (Pashu Swatha Sakhies):

Pashu Sakhi is a community Animal care service provider which will enable the last mile coverage in rural areas where clinical services for livestock is not available on time or expensive to afford for rural Poor's. PSS is envisaged to create awareness and capacity building the community on livestock based livelihoods.

Objective:

The objective of this module is to make livestock based livelihoods sustainable and viable enterprises for rural poor. There will be specific focus on the ultra-poor household who have limited or no access to land or other factors of production. It would be a strong extension network of livestock workers who are the community based practitioners and are accountable to the community institutions. The model would aim at strengthening the existing livelihoods of the rural poor by bringing in a clear impetus on livestock related activities.

Eligibility Criteria for PSS:

- 1) She should be a native and residing in the same village or GP (Member from women SHG).
- 2) She should be a good livestock (Goat and Poultry etc.) rearer of the GP at least having 1-2 cattle and /or 2-3 Goat or Poultry and her and having basic knowledge on animal husbandry.
- 3) She should have functional knowledge of writing and reading of local language. She should be minimum class 8th Pass, however higher education qualification and knowledge of writing and reading of local language.
- 4) She should have a good and hygienic livestock housing system.
- 5) She must be in a position of differentiating healthy and sick livestock.
- 6) She should have good motivator, communication skill and leadership quality.
- 7) Having a interest for livestock work and her family should be a supporting role.
- 8) She should be a willing to training and workshop in nearby area or other state or district.

The following door step services are providing by Pashu Sakhies to village level farmers and livestock families under the ACF & Government monitoring and guidance:

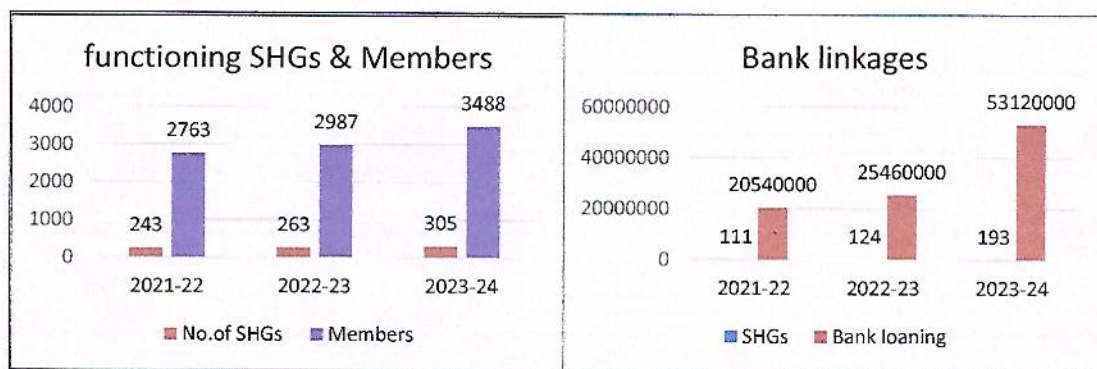
- 1) Health Checkup camp
- 2) Basic treatment to Goat, Bucks, Poultry birds & chicks, Cow and Bulks.
- 3) Deworming and Vaccination camp
- 4) Mega Health Check-up camp with Government Veterinary department.
- 5) Management, Treatment and linkages with government schemes.
- 6) Promotion of livelihood opportunities.
- 7) Awareness sessions for Pashupalak.
- 8) Provide the ACF project benefits from different projects.
- 9) Organize the coordination meeting with government doctors for regular vaccinations and treatment.

Achievements:

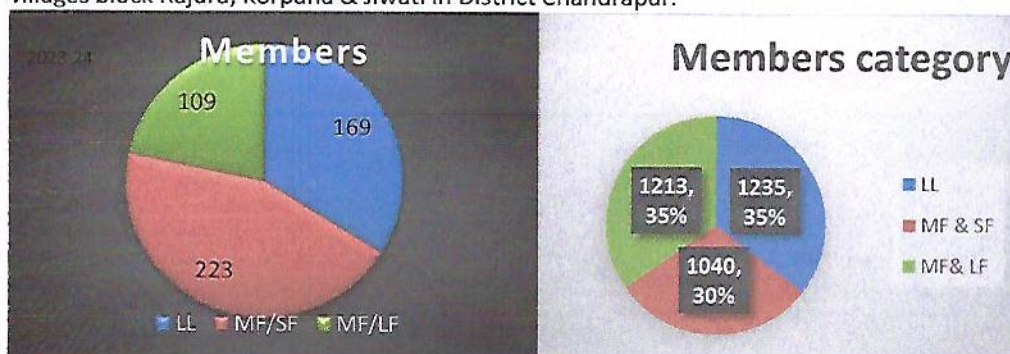
No. of trainings conducted for para-professionals	3	No. of trainings conducted on goatery	72	No. of cattle camps organized	220
Total no. of para-professionals trained	76	Total no. of members trained on goatery	1748	No. of animals treated in the camp	19293
No. of women para-professionals trained	76	No. of women members trained on goatery	1446	No. of household benefited with animal health treatment	5278
No. of trainings conducted for para-professionals	21	No. of trainings conducted on poultry	11	No. of artificial Insemination carried out in the camp/household	208
Total no. of para-professionals trained	76	Total no. of members trained on poultry	325	No. of successful cases of artificial insemination	140
Training conducted for FPC	34	No. of women members trained on poultry	284		
Total no. of farmers participated in the FPO training	891	No. of trainings conducted on milch cattle	16		
		Total no. of members trained on milch cattle	352		



Women Empowerment Program:



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 and strengthen the financial literacy is the major objective of WEP program. As per our focus area we are working with **305 SHGs** and **covered 3488** women members. Now we seen that increased social, financial & political knowledge and status. Organized 28 awareness sessions for formation of SHGs and its end result is this year formed 42 SHGs and joined 501 members. Out of 501, 169, 223 & 109 members from Landless, M & S families & M & Large families. Total 63 trainings conducted for 305 SHGs and covered members of 2519. Organized 21 financial literacy, bank linkages and Gender equality sessions for SHG members & leaders. Completed the 5 EDP sessions for entrepreneur women members. Received Rs.5.40 corer bank loaning to 197 SHGs. Women are fully involved in village development activities, setup of income generating activities, marketing, handling the social issues, participating in women gramsabha & village meetings. Under the WEP program we covered total 73 villages block Rajura, Korpana & Jiwati in District Chandrapur.



Total 305 SHGs savings is 2.63 corer, total 1.87 corer internal loaning and total corpus is 2.78 corer. During the period total 5 new SHGs has formed and 53 women members joined newly formed SHGs. In 42 new SHGs encompassing 109 landless, 223 small & marginal farmers, 169 medium farmers. 03 SHGs having distributed their savings and capital amount. During the reporting period total 1794 women are involved in individual level business as like Goat & Poultry rearing, Grocery shop, Cloth selling business, Vegetable growing and selling with their own shop etc.

Under the Women Empowerment program we are implementing the following projects through the NABARD, Bank & Samhita (CGF).

- 1) Joint Liability Group (JLG) by VKGB & NABARD
- 2) Entrepreneurship Development Program (EDP) for Poultry rearing and Desi eggs business.
- 3) Bank Loaning and Financial Literacy through the Bank of India & VKGB.
- 4) Samhita (CGF-Collective Goods Foundation), Ahmadabad.

Ekata Women Federation:

Covered 300 women farmers under the CGF (Samhita)project. In the second year Ekata federation has successfully implemented the CGF project. Total 300 women involve in agri inputs purchased and collective cotton procurement.

Total no. of 23 toilets units constructed by SHG members with the support of Ekata women federation. No. of 343 women are covered in social security schemes.

Safalya FOOD service:

Ekata Women federation has run 3 FOOD canteens in ACF premises, MCW colony & Transport Nagar. In the 3 canteens total 8 women are involved on monthly basis for providing the food service to ACF employee, SEDI students, MCW colony families & employee of ACF & Drivers. The focus is safe & fresh food.

Sunhari Sanitary Napkin: Ekata has run Sunhari Sanitary Napkin unit at village Piparda, block Korpana in district Chandrapur Maharashtra supported by HAFELE INDIA PVT.LTD. In the unit total 6 women are engaged for production, labeling and marketing.

Safalya Mahila Farmer Producer Organization has registered in Company ACT. In the Safalya FPO total 12 women Directors and 817 share members are involved. Now Safalya M.FPO has covered total 60 villages. The objective of Safalya M.FPO is provide farming knowledge (Technical & practical) to female & male farmer families regarding increasing production, decrease the expenses, farm alien business, supply best quality agri inputs, marketing etc.



Way forward & focusing areas are following:

1. Address the women social issues and focusing on their capacity building through the SHGs, VOs & Federation.
2. Strengthen the VOs, Federation and women FPO.
3. Awareness creation about micro financing credit which is high rate of interest.
4. Promotion of RG & RF practice.
5. Collective production and marketing of SHG products.
6. Address women health issues as like NCD, Anemia, and Tobacco drive.
7. Sanitation practice and Safe drinking water.

Health Program

At present Health program operates in 70 villages across the 3 blocks namely Korpana, Rajura and Jiwati. Keeping approach of Integrated Health Program. At present no. of 67 Sakhis associated with us and reaching out to 8881 house-holds by covering population 4135

ACF has established total 11 clinics in program area, in old two clinics at Sonurli and Wadgaon villages, new nine clinics in Hardonakhurd, Upparwahi, Bhendvi, Pimpalgaon, Kusal, Thutra, Isapur, Saleguda & Kukudsath villages. Covered total no. **1657** of patients from reporting period and collect community contribution from medicine and other cost is **Rs. 114098** this is good achievements. This is sustainable model for the community and ACF. We had organized **10** specialty camps **07** camps for adolescent anaemia collaboration with the government health department & **03 Eye check-up camps for trackers and community** there were total **636** cases had treated, Organize nutrition demonstration for anaemic cases.



Under MCH program we are done **05 ANC Check-up Camps** with treated **57** pregnant mothers, **05 Paediatric Camps** with treated **140** Children, in this period 42 deliveries out of **that 43 Institutional Deliveries**. The major emphasis is on community awareness and education, facilitating screening early diagnosis and treatment, and improving utilization of Non-Communicable Disease services. Under Communicable Disease project we are organized awareness session on Malaria, Tuberculosis & HIV/AIDS. Total session is **440 & 7791** people participated. Total **19 NCD Screening and**

treatment camp had organized there were **1505** people has Screened. Under NCD program we have launched Breast Awareness project under this project we have organized **150** sessions, participant is **2189** done self-breast examination is **1027**. Under Total Sanitation project following activities had done.

1	Awareness Session with Community	245
2	Community Participate in session	3998
3	Soak Pit Construct	88
4	Toilet Construction and maintain	90
5	Dust bine	114
6	Garbage collection & Segregation sheds	03
7	Lich Pits	08
8	Community Toilet	01



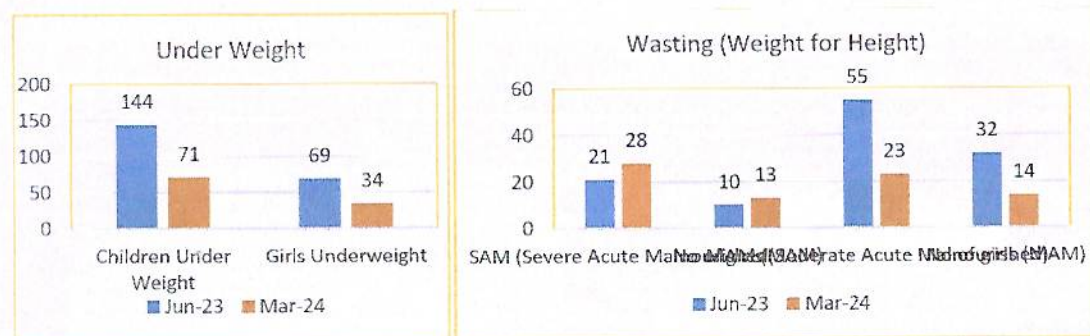
Under Sanitation Program we have established garbage collection system in Kukudsath, Mangi & Upparwahi village so we have provided the support under Light House Project collaboration with government SBM department. We have prepared Village development plan for SBM 2 ODF + villages, we have focused on Solid & liquid waste management. Under Anemia Control program we have conducted 137 session for student/community and covered 2491 Student/community. Under the MHM (Menstrual Hygiene Management) Project, under this project organized awareness sessions is

396 and 5490 participants adolescent girls and women they are link with government health department and other sources for sanitary napkin total 2362 are benefitted.

Under Malnutrition program we have provided the support for nutrition awareness session for 35 Anganwadies health marker days 18 total participants is 1267. Celebrating Haldi-kumkum program in January 2024 & International Women day in March 2024 under this campaign we had organized Nutrition competitions, healthy baby competitions, Nutrition awareness sessions, poster show, Nutrition rangoli competition etc.



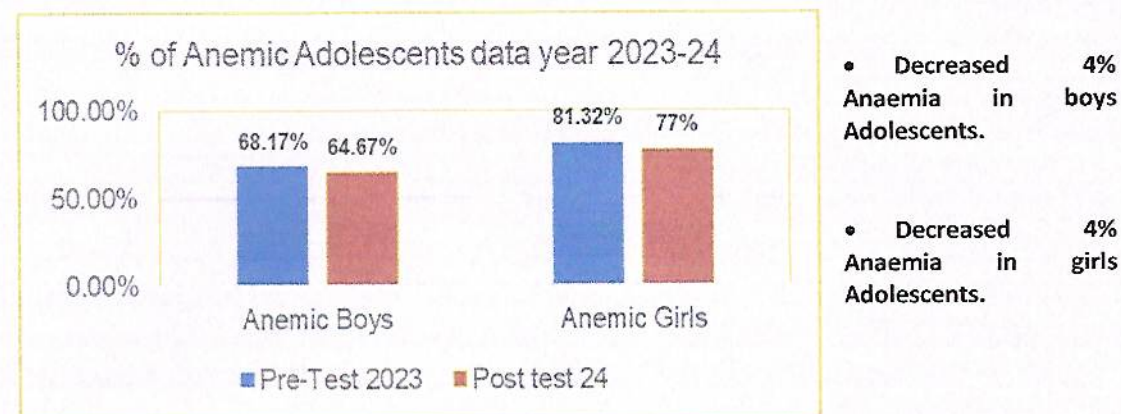
Results of Malnutrition intervention:



Mental Health Project: This year we have started Atmiyata Project under NCD program in 52 villages. Under this project we have established strong team 52 champions & 120 Mitra. Conducted the three training with two batches. It's good project for community under this project we are identified Common Mental disorder & Savior mental disorder cases.

Tobacco Research Study in Jiwati block in 18 villages through the support by Nourattam Sekseriya Foundation. Total 15 currant tobacco user has registered. 13 cases has stopped tobacco chewing.

Results of Anaemia Intervention:



Capacity building Training workshops:

Done two days refresher training of Sakhis, Community health officers, Medical officers, ANMs and Health assistance for Breast Cancer awareness through the support by Cachar Cancer Hospital and

Research Centre, Silchar, Asam. Also done one workshop for all health volunteers and medical officers for Breast, Cervical and Oral cancer through the support by Government health department.



Anganwadies Painting at Mangi buj 01 & Upparwahi 02



EDUCATION PROGRAMME

Education is the most important tool for social and economic transformation and a key instrument for building an equitable society. A well-educated population, equipped with the relevant knowledge, attitudes, and skills are essential for economic and social development in the twenty-first century. Education also acts as an integrative force in society, imparting values that foster social cohesion and national identity.

Based on the National Education Policy 2020, ACF believes in holistic development of students and to convert their energy into action, and increase their stamina and concentration, Hence ACF shifted the focus of the program from quality education to promotion of physical literacy, promotion of reading and behaviour change components under WASH program. This will help the child to develop a good habits, which will be added value in their personality from childhood and he/she may become healthy and sensible future citizen.

Outreach of Education Program

The outreach of Education program is in 30 schools of Korpana, Rajura and Jiwti block of Chandrapur, covering 1650 students. Below table describe the blocks wise outreach of schools.

Focus Program	Reach of Schools	Reach of Blocks
Reading Promotion	19 (Upper Primary-8 & Primary-11)	Rajura-12, Korpana-5 & Jiwti-2
Sport Promotion	15 (Upper Primary-13 & Primary-2)	Korpana-10 & Rajura-5
WASH Promotion	30 (Upper Primary-11 & Primary-19)	Korpana-12, Jiwti-4 & Rajura-14

Reading Promotion Program

The objective of Reading Promotion Program is to build a capacity of teachers/volunteer to recognize the understanding of word meaning of students by set up library for easy access of age specific books to expresses themselves freely and improve pronunciation and enhance a reading skills.



Since 2020 we are implementing a reading promotion program with the help of DSS (Door Step School, Pune) as a knowledge partner by focusing on four parameters such as Alphabet incomplete, Alphabet completed, Matras completed and composite letters. This program is purely focused on foundational literacy and Numeracy (FLN) as per NEP 2020.

In 2023-24 covered 528 students of 19 ZP schools. The team of 19 volunteers conducting the regular classes of primary students with the help of stakeholders, teachers and parents at village level.

Activities carried out

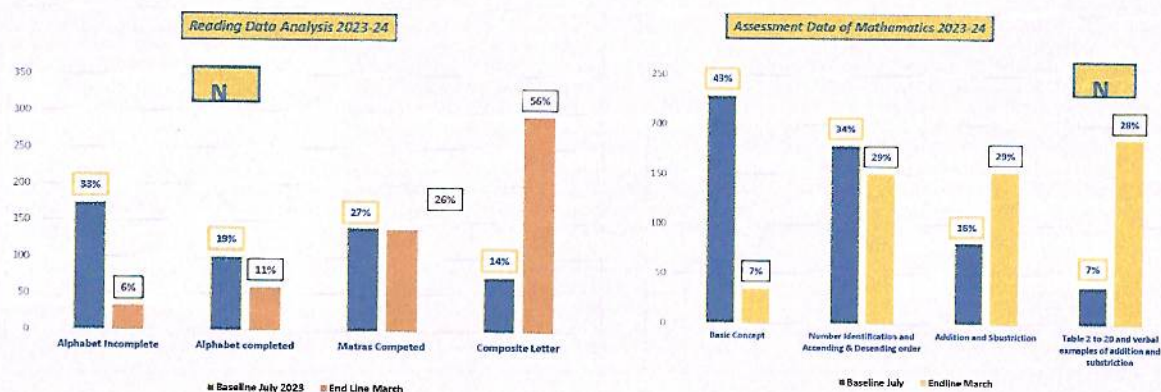
- **Expansion to New Schools:** Reading Promotion Program extended to four new schools namely ZP Upper Primary School, Upperwahi, Lakhmapur, Hardona Kh, and Ekodi Primary School.
- **Volunteer Selection:** Three new volunteers/"Pustak Pari" were selected to contribute the program.
- **Midline and End line Assessment:** Baseline assessments for Reading and Maths were conducted with a total of 528 students across 19 schools.



- **Reading Sessions:** Volunteers conducted a significant number of reading sessions, 2207 in total, covering both language and math.

- **Reading Competitions:** 86 reading competitions were organized by volunteers, attracting participation from 722 students, 204 parents, 72 School Management Committee (SMC) members, and 55 teachers.

- **Initiated Library at ZP Upper Primary School Bhoysgaon** to get an opportunity to students and Youth to develop reading habit. Provided books of Rs. 15000/-.



Reading:

- Decreased alphabet incomplete category by 27%, which is good achievement only 6% students were remain in this category because of their attendance > than 50 days.
- Decreased alphabet completed category by 8%, which is also good sign because the students moving in 4 level.
- Matras category decreased by 1%, It should be having remain same or increased but it decreased by 1% because 2 students were migrate in midterm and reported one student death.
- Composite letters category increased by 42%, which is showing improvement in reading level by 42%.

Mathematics:

- Decreased basic concept knowledge by 36%, which is good achievement that students moved in next category.
- Decreased number identification, ascending and descending order by 5%, It is moderate that 5% students reached to next level.
- Increased addition & subtraction by 13%, which is good sign because students completed 1st and 2nd level and reach to 3rd level.
- Increased table 2 to 20 and verbal exp of addition subscription by 21%, It is also very good improvement in mathematics because after completed 3 levels, students can reached to 4th level, which is 21%.

Overall Achievements of Reading & Mathematics

- Overall all 42% students improved reading levels & 21 % students improved numeric.
- 20% students of 1st grade can read composite letters of 3rd grade.
- 20% students of 2nd grade can read composite letters of 4th grade
- 20% students of 3rd grade can read composite letters of 4th grade.
- Expansion of 3 reading classes.
- 88% reading sessions conduct successfully
- Average books reading by 30-35 by students.
- 85% students can read fluently (Samaj Purvak Wachan)

Gender Wise Data Assessment

Boys- Decreased alphabet incomplete by 33%, alphabet completed by 5%, Matras by 1% and increased composite letter by 38%.

Girls- Decreased alphabet incomplete by 31%, alphabet complete by 12%, Matras level is remain same and composite letter increased by 44%.

Overall if we have seen gender wise, 44% girls and 38% boys improved reading level. And 28% girls & 29% boys improved Numeric fluency too

Overall Girls improve their reading levels by 6% more as compare to boys.

Sport Promotion (Physical Literacy)

The objective of Sport Promotion is to develop a fundamental movement skills and confidence to participate in Physical activities to achieve the physical and academic excellence by overcoming the mental stress and ensuring gender inclusion through Endurance, Agility, core Speed and Strength.

Under the Sport promotion program focus to improve the physical strength of students, which will helpful to increase concentration in study as well as enhancing the sports skills. This program covering 15 schools of core villages and no. of 778 students. ELMS Foundation, Mumbai providing technical support and training to develop the skill of running, kicking, jumping, catching, Dynamic balance, Beep test and Agility through the assessment and guidance.

Activities carried out:

- **Capacity Building Training:** One capacity building training of PE teachers and volunteers were conducted by ELMS Foundation. 13 physical teachers and 12 volunteers participated.
- **Provided Sports Materials:** Provided sports material to Pimpalgaon and Lakhmapur for after school Program
- **Stamina Building Activities/Minor games:** Conducted 204 sports sessions based on curriculum developed by ELMS Foundation. Covered 15 schools and 850 students participated
- **School Level Sports Competitions:** Held 10 sports competitions with schools to create a sport environment. Covered 10 Schools and 195 students participated.
- **Khel-Utsav:** Organized one mega events of Khel Utsav at Gopalpur to create sport spirit and environment, participated 15 schools and 349 students along with teachers.



- **Interschool Sports Competitions:** Held 6 interschool competitions at the block level. Collaborated with the district sports office. Included sports like Kabaddi, Kho-Kho, Relay, High & Long Jump, Running (100, 200, 400, 600 and 1500 meters). Participated 156 students.
- **Athletics Achievements:** 15 students participated in athletics organized by Chandrapur Amateur Athletics Association.
- **Self-Defence/karate Classes:** Started at ZP Upper Primary School, Upperwahi, 35 students enrolled. A 3-month program aimed at achieving a yellow belt. 14 students participated in 2nd International karate tournament at Hyderabad, organized by "World Nakayama Shotokan Association" received gold, silver and Bronze by 7 students.

Notable Achievements:

- Expansion of 2 high schools
- Started "After School Program" at Lakhmapur & Pimpalgaon
- Increased physical literacy awareness in students.
- Girl's participation 50% in sport Promotion.
- Increased 20% enrollment online on district sports portal (156)
- Increased teacher's knowledge in Kabaddi, Kho-Kho, volleyball, Athletics.
- Trained 8 volunteers and involved them in sport promotion
- State level participation by Anushaka in 800 meter running.
- 14 students participated in karate tournament, received gold, silver and Bronze by 7 students.
- Kabaddi and Kho-Kho team of Bhoysgaon reach to district level.
- Anshika Thakre from Bhoysgaon reached to Division level in Kho-Kho.
- Shine 7 students in 100, 200, 400, 1500 meter running with 1st & 2nd rank. At block level.
- Developed Athletics trend in schools.



WASH (Water Sanitation and Hygiene)

The objective of WASH program to ensure clean, safe and functioning water facilities along with toilets at school by generating knowledge of good hygiene behaviour, and manage their menstrual cycles in safety and dignity. Clean environment both involves behaviour and facilities.

Under the WASH promotion focused to make available portable drinking water facilities, Clean and sufficient Sanitation facilities for both boys and girls, Hand washing station with

soap and running water and aspect of behaviour change through peer training on personal and menstrual hygiene. WASH cover 16 core schools of ZP.



Activities carried out:

- **Awareness Sessions on Safe Drinking Water:** Conducted no. of 63 awareness session on safe drinking water, participated 1572 students.
- **Menstrual Hygiene Sessions:** Conducted no. of 41 menstrual hygiene session and addressed 585 adolescent girl.
- **Personal Hygiene Sessions:** Conducted no. of 66 sessions on personal hygiene, participated 1650 students.
- **WASH Training Sessions:** Conducted no. of 20 training on WASH with school students and teachers, participated 834 students.
- **Infrastructure Development:** Installed school shed in 2 schools at Bhendvi and Sonapur to conduct assembly.
- **Swacha Vidyalaya Competition:** Organized Swacha Vidyalaya competition in 30 school.
- **School Infrastructure:** *School Entrance Gate at Kwathala, School Shed at Sonapur, Extension of school Shed at Bhendvi, Repaired Anganwadi Shed at Lineguda, Installed Paver Block at Hirapur.*

Overall Achievement

- Improved 30% personal hygiene of the students.
- Openly discussion on menstrual Hygiene with girls and boys too.
- Improved 70% school sanitation and infrastructure.
- Improved cleanliness after initiated Swacha Vidyalaya Competition at schools level.
- Available toilets for girls and boys as per enrollment.
- Proper used of hand Wash station, water and soap by students.
- ZP Upper Primary School Bhoygaon became 1st in MukhyaMantri “Mazi Shala Sunder Shala” competition, won Rs. 14 lakh prize by govt.

These initiative indicate a holistic approach to health and hygiene education, covering various aspects such as safe drinking water, personal hygiene, menstrual hygiene, and WASH(Water, Sanitation and Hygiene) training. The active participation of students in these sessions reflects a positive impact on the community’s awareness and practices regarding health and hygiene. The installation of schools sheds further contributes to creating conducive environments for educational and assembly activities.

Other Co-curriculum activities carried out:

- **Capacity Building Training on Science Subject:** Conducted one training for teachers on Science experiments. Teachers participated 10 and 64 students participated.
- **School Management Committee (SMC) Meetings:** Conducted 24 meetings to involve SMC member in school development, 216 members participated in meeting.
- **Summer Camps and Skill-Based Craft Activities:** Organized 17 summer camps in schools, participated 377 students. Taught skill-based craft activities.
- **Exposure Visit:** Organized one exposure visit at Hiwalig, Tah. Traymbakeshwar, District-Chandrapur to ZP school to learn teaching pattern and use of TLM. Received Rs. 11500 community contribution from teachers, SMC members and volunteers.
- **Balmela :** Conducted Balmela in 4 schools, Sonapur, Bhendvi, Bhoygaon and Pimpalgaon to get skill to make things best from waste, participated 394 students.
- **National Science Day:** Celebrated 2 national science day at Pimpalgaon and Lakhmapur to increase interest of the students in science, participated 80 students with their science project.
- **Space on Wheel:** Organized Space on Wheel based on Isro exhibition with AVN (Ambuja Vidya Niketan) coordination. 132 students from 11 core schools participated along with teachers and volunteers.
- **Coordination Meetings:** Conducted 5 coordination meetings with block education officer (BEO), Kendra Pramukh, headmasters (HM), and teachers. Aimed at coordination and gaining support for implementing education programs at the school level.



- **BaLa Painting:** BaLa as a learning aids created in 6 school for joyful learning outcomes. Received Rs. 0.36 community contribution.

Overall Achievement

- 4 schools initiated English teaching after training.
- 4 schools adopted teaching techniques after exposure visit to Hiwali.
- Created Joyful learning environment in schools through BaLa features.
- Students preparing bouquet, flowers after summer camps.
- Great exposure on space and technology to the students.
- Learned self-defense techniques by girls.
- Build strong coordination with govt. edu dept.

These initiatives demonstrate a holistic approach to education, including teacher training, community involvement through SMC meetings, extracurricular activities like summer camps and skill-based crafts, self-defence training, coordination meetings with education stakeholders, awareness programs on mine safety, and acknowledging the contribution

of teachers on teacher day. The multifaceted approach contributes to the overall development of education and community engagement in the targeted area.



Overall educational efforts collectively contribute to a well-rounded approach to education and student development. The focus on reading habits, expansion of programs, and optimal use of infrastructure, sports coordination, and collaboration with both government and non-government entities reflects a comprehensive strategy to enhance the overall education experience and opportunities for students in the targeted areas.

Skill Development Program

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, Printed Circuit Board Assembly Operator (PCB), Manual Metal Arc Welding (MMAW), Assistant Mason, CNC Machine Operator, Unarmed Security Guard, Entrepreneurship Development Program (EDP), Graphic Designer and Soft Skill.



Coverage Area: Our coverage area of ACF location is basically Gadchandur, Rajura, Korpana, Jiwati, Gondpipri & 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.

Pre-training-	During Training-	Post Training-
<ul style="list-style-type: none"> Ensuring placement linkages Need assessment Community mobilization Counselling of candidates & their parents. 	<ul style="list-style-type: none"> Networking for Guest lectures, ensuring quality training and soft skill and Basic computer is Main aspects. Counselling & Parents meeting of trainees. Exposure Visits. On Job Training (OJT) 	<ul style="list-style-type: none"> Hand holding support for two years for Placement Tracking and Career Progression of each trainee for two years

Short Duration courses:

- Assistant Electrician – Duration – 4 Months
- Manual Metal Arc welding (MMAW) - Duration – 4 Months
- GDA (Basic Nursing) – Duration - 6 Months
- Computer Numerical Control (CNC) Machine Operator – Duration – 4 Months
- Entrepreneurship Development Program (EDP) – Duration – 15 Days
- Unarmed Security Guard – Duration – 2 Months
- Graphic Designer – Duration – 4 Months
- Assistant Mason – Duration – 3 Months

Courses in ITI mode:

- Fitter- Duration-24 Months
- Electrician- Duration-24 Months
- Welder- Duration-12 Months

Highlights of the SEDI:

- SEDI has developed new labs of Unarmed Security Guard.
- SEDI trainees stood runner-up in district-level volleyball competitions.
- SEDI conducted various local advisory meetings, PMRC meetings etc.
- SEDI has started 'Mera Sahayog' scheme where needy trainees get help from others.
- SEDI done various campus interviews and placement partners meet.
- SEDI has developed own online cloud software where trainee's database is maintained also developed the Internal Assessment software where each batch internal assessment is carried out every month smoothly.
- Various activities, activity-based learning, various guest lectures and session was organized to enhance the skill, communication, confidence & strength of trainees.
- SEDI discovering spark of entrepreneurship in trainees & motivating till date 35% 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 and soft Skill 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 & 72 % 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-

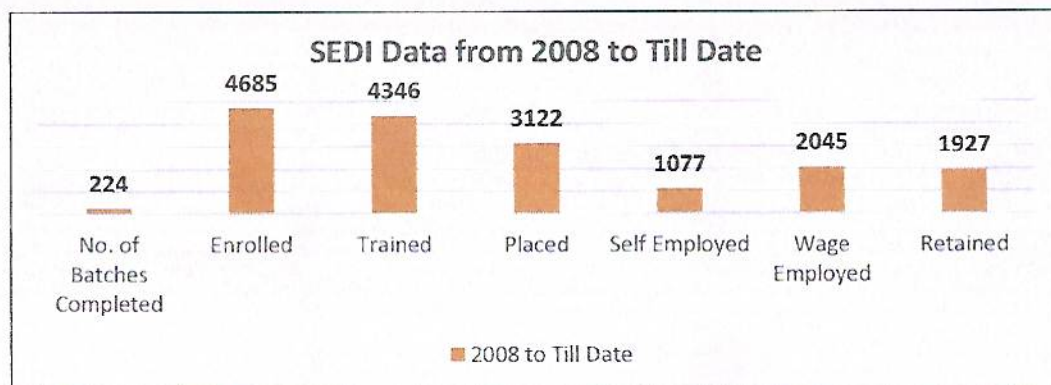
dominant courses.

- Reaching to poorest of the poor families by generating funds for skill development training to sustain their livelihood.

Placement process:

- High Demand in Market- Placement Opportunities
- General duty assistant (GDA) are in high demand in private Hospitals and home health services.
- Establishing strategy
- Alumni Meet & Pune Chapter
- Screening and searching
- Evaluation

SEDI from 2008 to Till Date:



Glimpse of SEDI:



Mobilization – Village level meeting and corner meetings at core villages



**_Placement – Linkages
and partnerships with various industries and placement of trainees in Pune**



**Alumni Chapter, Pune ,
Executive Committee**



**Electrical trainees runner-up in
District skill competition**



**SEDI awarded best ITI institute from
Nagpur region by DVET & Govt
Maharashtra**

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MCW/EMD/19/2023/ 566

December 27, 2023

To,
The 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's.

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 (NOV 2023) 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)**

K Subbulakshmanan
**K Subbulakshmanan
Chief Operations Manager**

Enclosed: As above

**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 : Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, S. G. Highway, Khodiyar, Ahmedabad, Gujarat 382421
CIN No: L26942GJ1981PLC004717 Website : www.ambujacement.com

Ground water Level Measurement Report

NOV 2023 (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	-0.8
2	Bhendwi (Gereguda)	Sheikh Rajjak agricultural land (Personal well)	VDW2	-0.4
3	Hirapur	Near Jaitu Meshram House (Common Well)	VDW3	-2.0
4	Sonapur	Near Gram Panchayat (Common Well)	VDW4	-3.0
5	Pandharpaoni	Near Laxshman Pendorer House (Common Well)	VDW5	-5.3
6	Chandanwahi	Near Nanji Darekar House (Common Well)	VDW6	-3.5
7	Pimpalgaon	Near Wasant Lohe (Private Well)	VDW7	-5.8
8	Thutra	Near Bobade's House (Private Well)	VDW8	-5.3
9	Upparwahi	Near Santosh Hanumante House (Common Well)	VDW9	-4.4
10	Mangi (Big)	Near Mata Temple (Common Well)	VDW10	-6.0
11	Mangi	Sawkar Well	VDW11	-1.6
12	Hardona (Khurd)	Near Ramesh Zade house	VDW12	-4.2
13	Gadchandur	Near Premchand Borkar House (Common Well)	VDW13	-6.1

MAZ

Ambuja Cements Limited
(Unit :- Maratha Cement Works)

Summary of Drinking Water Analysis Report of Surrounding Village
Nov-23

Sl. No	Parameter	Unit	Panchgaon	Bhandwi (Gereguda)	Hirapur	Sonapur	Pandharpur	Chandawahi	Pimpalgaon	Thutra	Upparwahi	Mangi (Big)	Mangi	Hardona (Khurd)	Gadchandur
1	pH		8.32	7.69	8.17	7.75	7.99	7.83	6.94	7.89	7.00	7.29	7.54	7.99	8.01
2	Total Dissolved solid	mg/lit	900.00	490.00	656.00	1294.00	1234.00	492.00	508.00	712.00	628.00	974.00	818.00	854.00	698.00
3	Total Alkalinity	mg/lit	385.00	247.50	280.50	297.00	275.00	198.00	181.50	214.50	203.50	247.50	275.00	368.50	176.00
4	Iron	mg/lit	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
5	Fluoride	mg/lit	0.34	0.47	0.38	0.68	0.52	0.40	0.48	0.38	0.62	0.21	0.33	0.46	0.36
6	Chloride	mg/lit	69.90	13.50	19.90	73.90	97.90	21.50	21.50	30.90	24.90	97.90	84.90	70.90	75.90
7	Total Hardness	mg/lit	252.00	278.00	276.00	456.00	424.00	250.00	304.00	360.00	260.00	236.00	304.00	400.00	324.00
8	Sulphate	mg/lit	48.30	20.80	25.50	103.30	88.10	51.60	40.50	138.60	67.90	85.10	26.70	92.90	73.70

(Signature)

Sitename Search Min 4 Letters

AMBULJA, NEAR CEMENT MILL

Battery Voltage

Ground Water Table and Barometric Pressure

Latest Data Time Stamp 2023-11-28 15:24:13

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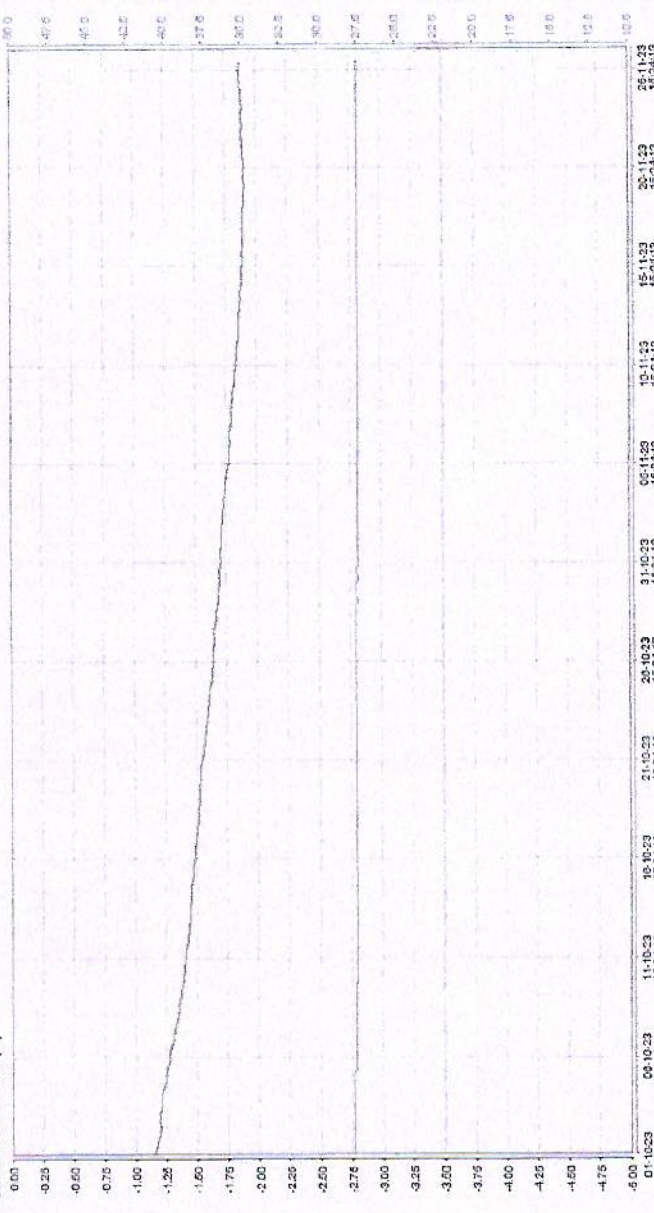
Graph Table

Auto Refresh: ☐

AMBULJA, NEAR CEMENT MILL Ground Water Table and Barometric Pressure

Ground Water Level (m)

Water Temperature (degC)



- Apply Show Data Points
- ☒ WATER LEVEL
 - ☒ TEMPERATURE
 - ☒ BAR CEMENT MILL

Sitename: Search Min 4 Letters

AMBUJA MAGAZINE AREA

Battery Voltage

Battery Voltage
Ground Water Table and Barometric Pressure

AMBUJA PLANT MAIN GATE

AMBUJA THUTRA

☐ Auto Refresh

Graph Table.

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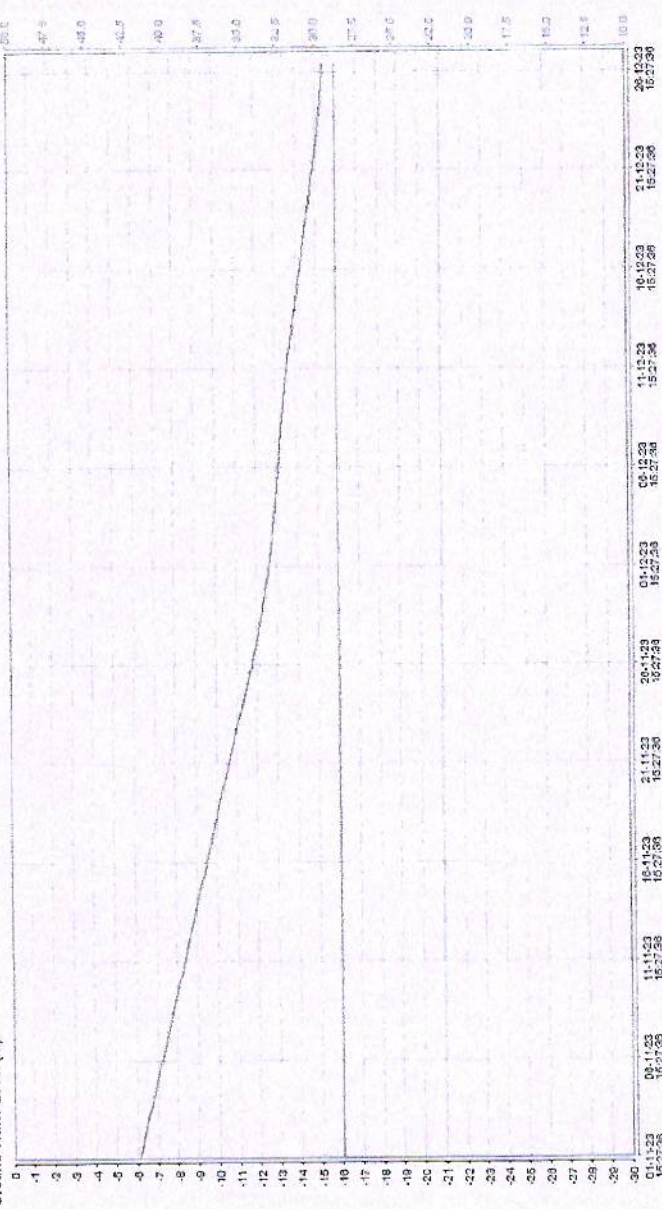
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2023-12-27 15:27:36

Latest Data Time Stamp

Water Temperature (degC)

Ground Water Level (m)



Apply

Download Data

Collect All Standards and

LEVEL

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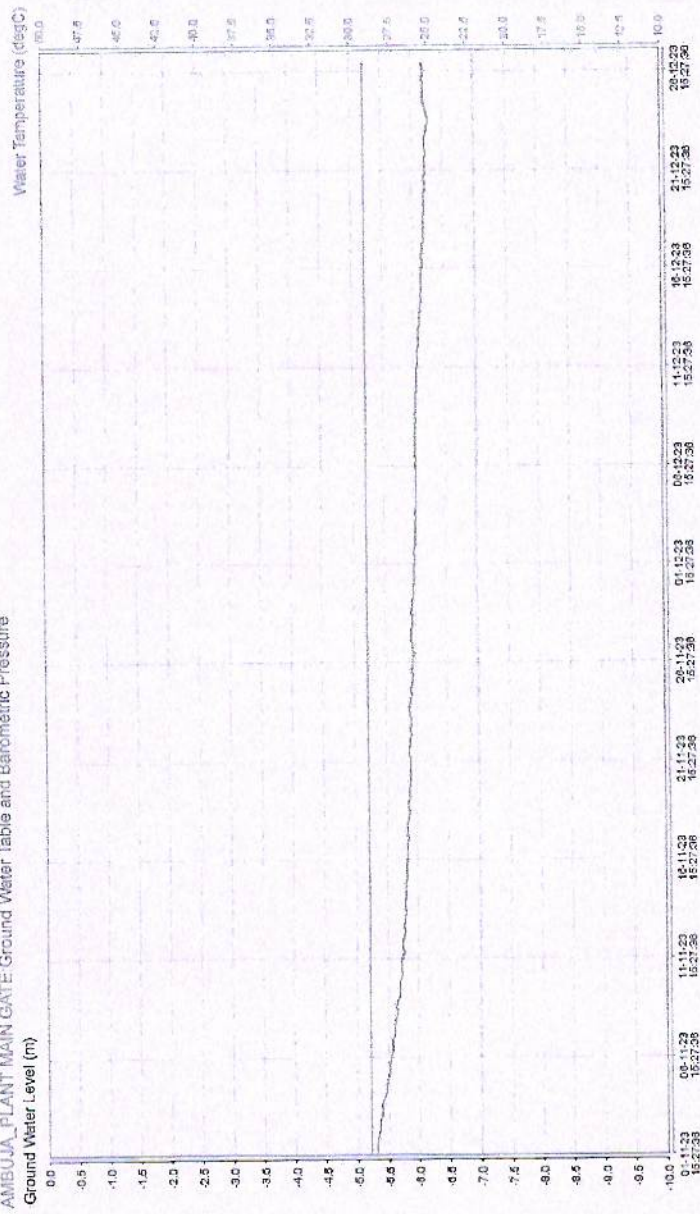
Site Graph Presentation

Welcome User:
AMBUJA_RAJURA

ENCARDIO RITE

100% Satisfaction Guarantee

4



Licente ID-Encardion's Electronics Pvt. Ltd.

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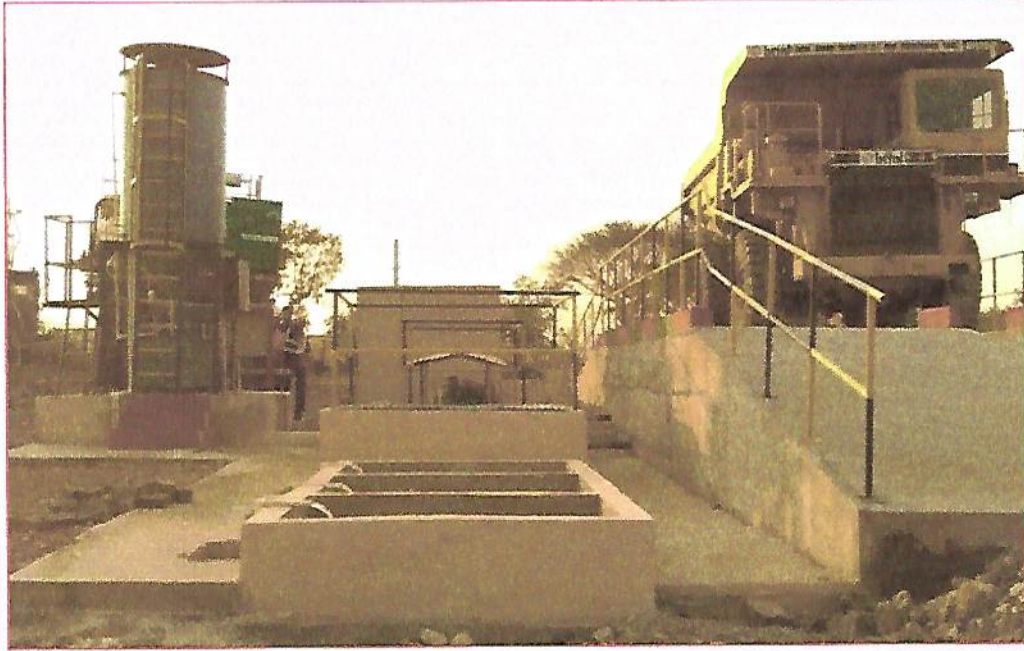
Sewage Water Reclamation Plant

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.



Effluent Treatment Plant at Mines Workshop

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



Ambuja Cements Ltd.
 (Unit: - Maratha Cement Works, Upparwahi)
Air Quality Monitoring Results
For Captive Limestone Mines, Cement Plant and Captive Power Plant
Six Monthly Average Values of Ambient Air Quality
 (From 1st October 2023 To 31st March 2024)

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	26.47	57.67	8.44	13.26
2	Guest House (Near Bachelor Accommodation)	0.5	SE	28.14	60.42	8.45	13.53
3	L.S. Crusher	0.1	W	31.18	67.26	8.62	13.82
4	Near magazine Section	1.5	SW	25.62	55.62	8.41	13.77
5	Near Water Pond	2	NW	31.03	67.89	8.50	14.12

Note: - All the values are Monthly Average Values.

Water Sprinkling System

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



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

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



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

Six Monthly Average Values of Fugitive Emission Monitoring
(From October - 2023 to March - 2024)

Sr.NO.	Location	SPM in ($\mu\text{g}/\text{M}^3$)	CPCB Standard ($\mu\text{g}/\text{M}^3$)
1	Limestone stockpile area	816	5000
2	Near Mines Site Office	748	
3	Mines Haul Road	1460	
4	Near Limestone Crusher	1374	

Note :- All the Values are Monthly Average Values.

Ambuja Cements Ltd.
(Unit: - Maratha Cement Works, Upparwahi)
Noise Level Monitoring Results
For Capacity Lime Stone Mines, Cement Plant and Captive Power Plant
Monthly Values of Noise Level Monitoring
(From 1st October 2023 To 31st March 2024)

Name of Location	Near Water Pond		Near Magazine Area		Near Crusher		Along Roadside		Colony Area	
Month	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Oct-23	48.1	44.7	46.2	45.9	68.2	67	47.5	46.2	47.8	45.3
Nov-23	47.6	45.5	48.7	46.3	69.1	66.4	46.2	45.4	48.2	46.6
Dec-23	46.4	44.2	47	45.2	67.6	64.8	45.8	43.9	47.5	45.7
Jan-24	47.3	45.4	46.6	44.8	68.6	65.2	44.4	43.2	45.2	43.1
Feb-24	48.4	46.3	47.3	45.5	67.5	66.3	46.3	44.6	45.6	44.5
Mar-24	46.5	44.9	48.7	46	68.3	65.4	45.4	43.7	46	45.4

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 M3/hr	90,000
6	Flue gas temperature deg.cel	50
7	Exit velocity of the gas m/sec	14.12
8	Dust load gm/ m3	60
9	Dust emission mg/Nm3, Design	<30
10	Design pressure mm Wg	500
11	Max flange to flange pressure drop mm	150
12	Air to cloth ratio m3/min/m2	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 It / min / cm2	120-160
17	Filtration area m2	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 October - 2023 To 31st March - 2024)

Sr.No.	Stack Attached to	Stack Height (m)	Velocity (m/sec)	Particulate Matter (mg/Nm ³)
1	L.S .Crusher B/F	30	11.97	23.87

Note :- Values are Monthly Average Values.

