AFPRO

Action For Food Production

ANNUAL REPORT 2019-2020

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AFPRO in India

AFPRO in ACTION

AFPRO

Action For Food Production

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AIM

The aim of the Society is development of weaker sections of the rural community and to move towards sustainable development, through overall increase in their knowledge and skills in the areas which directly affect their standard and quality of life.

MISSION

AFPRO dedicates itself to its mission of alleviating rural poverty by promoting and working through voluntary organizations with a focus on enabling the marginalized and weaker sections of rural society to participate in the process of rural development by strengthening their resource base and capabilities through improved knowledge and skills, both in the technical and socio-economic development areas.

VISION

AFPRO as a secular socio-technical development organization with Christian inspiration visualizes itself as working to enable the rural poor-including women and men belonging to small and marginal farmers and the landless, dalits, tribal people, fisher folk and unemployed youth to move towards sustainable development, through an overall increase in their knowledge and skills in areas that directly affect their standard and quality of life. It visualizes itself as an organization which over the next decade will enable the marginalized rural groups to achieve enhanced socio-economic and personal status in the society through appropriate technologies for the management of natural resources.

AFPRO-Governing Body Members

Ambassador Balkrishna Shetty IFS (Retd) **President** C 74,IFS Apartments Mayur Vihar- Phase 1 New Delhi110092	Mr. John Peter Nelson **Vice President** Executive Director Indo-Global Social Service Society (IGSSS) 28 Lodi Road Institutional Area, New Delhi-110 003	Dr. F. Joseph Stanley **Treasurer** General Secretary Skills for Progress (SKIP) SKIP House,25/1,Museum Rd Bengaluru - 560 025
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Our Development Partners

- BAJAJ AUTO LTD
- BCI GROWTH & INNOVATION FOUNDATION
- BHARAT ALUMINIUM COMPANY LTD (BALCO)
- COCA COLA INDIA PRIVATE LIMITED
- EDELGIVE FOUNDATION
- EMERSON ELECTRICAL LTD
- HDFC BANK LTD
- IDH SUSTAINABLE TRADE INITIATIVE
- IKEA SUPPLY AG
- MAHYCO MONSANTO BIOTECH (INDIA) PRIVATE LIMITED (MMBL)
- PERNOD RICARD INDIA FOUNDATION
- NABARD
- VOLTAS LTD
- TRUSTEA
- MONDELEZ INDIA FOODS PVT. LTD
- SUSTAINABLE COMMUNITIES INDIA PVT. LTD
- HINDUSTAN UNILEVER LTD
- MAHINDRA & MAHINDRA LTD
- ULTRATECH CEMENT
- UNITED BREWERIES LTD (UBL)

Coordination & Network with other NGOs & grass root workers

Partnership with Governments

Central and State Govt.in convergence with NITI Aayog, Ministry of Jal Shakti(Department of Water Resources), River Development and Ganga Rejuvenation, (Department of Drinking Water and Sanitation) Ministry of Corporate Affairs, Ministry of Environment, Ministry of Forest & Climate Change, Ministry of Renewable Energy and Panchayati Raj.

From Executive Director's Desk

I have great pleasure to share with you our Annual Report 2019-20 on our continuous partnership. Inside you will find that fiscal year 2019-20 proved to be a very strong one for our organization. As we seek to advance our mission, we rely on everyone who is associated with us to uphold the highest standards of professionalism. Our entire team unites under the banner of working for the poorest of the poor with a commitment to be self-reliant. AFPRO has always been trying to demonstrate that our credentials indeed represent the gold standard in development sector.

AFPRO's mission and vision has been driving its team members since decades to put their best efforts for the well- being of the community. From the time of inception till date AFPRO has proved itself working in the adversity & capacitating community in Sustainable Development Goal (SDG) spirit for developing into a resilient community by enhancing their knowledge, awareness and providing the basic amenities to thrive and grow. In its quest for nation building, AFPRO has touched wide spectrum of community development endeavors embracing sectors of water conservation, Sanitation, Agriculture, climate change, Renewable Energy, formation and strengthening of community based organizations and more which has touched and changed many lives, to thrive a dignity of individual.

"Atal Bhujal Yojana (ATAL JAL)" is a Central Sector Scheme for facilitating sustainable ground water management in various critical geographical areas of India through digital application of enhancing the approaches for recharges of water to aquifers and control the demand management through water budgeting. Atal Bhujal is taken from one of the model project carried by AFPRO in a block of Karnataka. This project is designed for project period of 5 years in seven vulnerable states of India with financial & Technical support with World Bank. This will be a great opportunity in dry areas for agricultural and economic development. Meanwhile in the financial year our endeavor is to record & document so that others could feel it, and give advisories if they got any new experiences to add value.

Each of our team members has the ability to shape the future and to build trust in our area of operation, mainly our focal areas. Our collective vision, leadership, and willingness to act will impact our organization's destiny. As the members in the team of a socio-technical development organization, we need to be more bold and willing to help the development sector with more commitment which will take us forward for positive tool for the ultimate benefit of society. The commitment and the dedication by all of us throughout the country should exhibit our profession and thereby showing AFPRO's collective impact on Nation building.

For the past 54 years of our existence, we have become one of the socio-technical organization for a successful journey in the development sector without making any compromise on our vision and mission, and we have practiced a people-centric approach and advocated for reduction of rural poverty. As we continue to evolve, we have been steadfast in our mission.

During reporting year AFPRO has focused on the holistic rural development projects including strategic approach of natural resource management and livelihood enhancement and has tried to address the major rural development issues PAN India in different geographical regions. Most of our interventions are mainly for providing sustainable safe drinking water sources, conservation & augmentation of water resources, through community based approaches. Water & Hygienic sanitation facilities and capacity building of the community based organizations. AFPRO work has shown progressive trend of growth this year as well with the continuous and strong support of our donor agencies, community and government.

The social, economic, and political fallout of the pandemic will touch every aspect of people's lives. Vulnerable and disadvantaged groups will be impacted more severely and therefore require particular attention in the policy response. People suffered less where we have committed to work with community & SDG brining great change. Availability of safe water helped to cope-up with Corona pandemic. Integrated solutions are the only way in which we'll be able to build a greener and more inclusive future to help countries meet the 2030 goals. The year 2019-20 has brought in front of whole world the challenge to fight with the Novel coronavirus outbreak. During the ongoing pandemic, civil society is facing several constraints in its ability to carry out routine work. As a result of lockdown, social distancing, and quarantine measures which is an enormous challenge, tremendous opportunities had been missed out by Civil Societies/NPOs in reaching out their targets

We at AFPRO take this opportunity to express our sincere gratitude to all our partners and stakeholders for continuous support and active participation in the programs. At the end we would like to thank all those who are supporting our endeavors for reaching out to the most vulnerable marginalized community and bring-in transformative change needed for their socio-economic development. We strive to broaden our areas of operation in the coming years because we seek to positively impact AFPRO in order set high standards of entry through our credential. We are sure that with committed staff who have the right skills and experience and also the kind benevolence from bilateral funding partners we will be able to achieve it.

I encourage all of you to read through the annual report and, more importantly, to travel with us on our journey to work towards the reduction of rural poverty.

D K Manavalan IAS (Retd.)
Executive Director

FOOD SECURITY AND LIVELIHOOD

Better Cotton Initiative

Project Background

The Better Cotton Standard System is a holistic approach to sustainable cotton production which covers all three pillars of sustainability i.e., Environmental, Social and Economic. The Better Cotton initiative exists to make global cotton production better for the people who produce it, better for the environment it grows in and better for the sectors future. AFPRO has been working with cotton farmers to implement better cotton systems in Maharashtra and Gujarat.

Project Title	Better Cotton Initiative
Funding Agency	Better Cotton Growth & Innovation Foundation
Duration	April 2019 to March 2020
Location	Six districts of Gujarat and three districts of Maharashtra
Beneficiaries	Gujarat – 67173 farmers, Maharashtra – 48391 farmers

BCI APPROACH

- To demonstrate the inherent benefits of better cotton production, particularly the financial profitability of farmers.
- To reduce the impact of water and pesticides used on human and environmental health.
- To improve soil health and biodiversity.
- To promote decent work for farming communities and cotton farm workers.
- To facilitate global knowledge exchange on more sustainable cotton production.

PROJECT HIGHLIGHTS

- 115564 farmers have covered by AFPRO under the program.
- 2540 Learning Groups (LG) were formed in Gujarat and Maharashtra.
- Social Mapping, Soil mapping & Water resource mapping exercises carried out in all villages and training strategy was developed.
- 2540 number of Learning Groups (LG) formed covers 115564 cotton farmers.
- Training programs conducted on four modules like Better Cotton Initiative system and land preparation, Integrated Nutrient Management, Integrated Pest Management, Decent work, PPE & fibre quality with 2540 LGs.

  To increase the traceability along the cotton supply chain
- Through the program, AFPRO was focusing on enhancing the knowledge of farmers in sustainable Agricultural Practices like Integrated Nutrient Management, Integrated Pest Management, Crop Water Management, Biodiversity enhancement, etc.
- 108 children rallies conducted and 448 special training programs for women, labour and children in collaboration with different organizations i.e., panchayat, school, ICDS dept., etc.
- 3491 demonstration plots established on High Density Plantation System (HDPS); Seed treatment; Integrated Pest Management - bio pesticide, pheromone trap, sticky trap, trap crop; Integrated Nutrient Management - bio fertilizer waste decomposer, salinity product, etc. with participation of farmer.
- 1565 soil & 810 water samples were tested, and testing result shared with farmers. Out of total soil samples, 240 soil samples tested at AFPRO Mandal office using Mini STFR kit. Distribution of 265 Soil Health Card to farmers in linkages with Agri. Department
- The IEC Material on Better Cotton System, P&C Indicators, Monocrotophos, Health & Safety, Farmers Field Book, Registration Form, Leaflets, Farm assessments Formats, RIR formats, etc. are printed in local language and distributed to farmers.
- Distributed 813 Personal Protective Equipment (PPE) kits at Gujarat towards health and safety of labours and farmers. whereas 300 PPE kits were distributed at Maharashtra with support of Syngenta Foundation.

- IEC material on Plant training, salinity, PPE, Parawilt, pink bollworm developed and distributed to farmers
- 1190 farmers trained in linkages with KVK and ATMA.
- 40 Homemade bio-pesticides units started by individual farmers in different villages.
- Child protection committees formed in 40 labour class villages.
- 12000 Kg Beauveria and Tricoderma supplied to farmers for pest management.
- 35719 seeds & plants distributed in the area for biodiversity in collaboration with Forest Department.

2700 winter clothes were distributed to labour, women and students with support of Nari Seva Trust

KEY IMPACTS

- Reduced 50% use of chemical pesticides and provided alternate option of bio-pesticides.
- Enhanced awareness among farmers for appropriate use of chemical fertilizer based on the soil testing results.
- Increased use of bio-fertilizer, waste decomposer, Amrut Jal, Jivamrut, etc. as part of Integrated Nutrient Management.
- Developed linkages with Agricultural Universities, Krishi Vigyan Kendra, ATMA, Irrigation Department, Central Institute of Cotton Research (CICR) – Nagpur, Forest Department, Integrated Child Development Services (ICDS), etc.
- Management of wilt and sucking pest using bio-pesticides is also done.
- Salinity management product of innovative eco care, Company demonstration conducted for Cumin and Cotton-40 Numbers.
- 35% procurement observed for BT better cotton in the project area.
- Variability in climate is affecting cotton yield and income of the farmer.

Holistic Rural Development Programme in 6 villages of Bhilwara block of District Bhilwara

PROJECT BACKGROUND:

The project is implemented in 6 villages of Bhilwara block of Bhilwara district namely Dariba, Kotri, Biliya Kalan, Mandpiya, Suwana and Rupaheli. All selected six villages are located in the catchment of Banas River and in 12 km periphery of Bhilwara town. Meja Dam is the one of the biggest dams in the Bhilwara district is only 7 km far away from Dariba and Kotri villages. In spite of dams few villages don't get water. The soil of the area is loam, clay, sandy loam and stony loam. The ground water table is 10 to 20 m which rises in post-monsoon season by 4 m. As per the ground water scenario report published by Central Ground Water Board, the whole district is marked as over-exploited in terms of ground water resource. There is a 50 to 60% decrease in Rabi farming in villages except last year due to good rain. The textile and other industries affected the ground water, surface water and land severely in Mandpiya and Biliya Kalan village whereas moderately in Dariba and kotri villages. Predominantly, crops like Maize, wheat, cotton, pulses are grown in all six villages. Irrigation mostly depends on wells and tube wells i.e. about 75% and remaining depends on water bodies like pond, river etc. This project emphasize on improving the community services and amenities like drinking water, sanitation, health services, education, etc.

Project Title	Holistic Rural Development Programme in Bhilwara District of Rajasthan
Funding Agency	HDFC Bank Ltd
Duration	October 2017 to September 2020
Location	6 villages Bhilwara Rajasthan
Beneficiaries	3563 HH, 17232 Population

PROJECT HIGHLIGHTS AND IMPACTS

- **Natural Resource Management:** Constructed 3 Farm Ponds in the village Billiyan Kala and Mandpiya which will conserve about 1.25 Lakh liter water, in each farm pond. It will provide protective irrigation in agriculture/horticulture and vegetable farming in Rabi season.
- **Livelihood promotions:** Demonstration Plots of Scientific Farming motivated to adopt improved agricultural practices, bio-fertilizers, Vermi-

compost units & farm yard manure (FYM), were few interventions that contributed to food security and income generation at family level.

- **Horticulture Plantation with Drip (WADI):** Under this activity, 30 orchards were planned & establishment with 30 farmers.
- **Demonstration plot - Vegetable farming Trellis** –Farmers were trained for trellis farming, raw Material like Poles and Bamboo with galvanized wire has been provided to 18 farmers. Good quality seeds of creepers such as Beans, Bitter gourd, Ridge Gourd, and Cucumber etc. were provided to the farmers along with good technical inputs by AFPRO team. Now, apart from their own consumption, almost all Farmers who have installed Trellis are getting 10-12 Thousand Rupees in a month by selling vegetables in the season.
- **Livestock promotion** of Goat Breed Development Program continued from previous year. Under this activity to increase in milk production and enhance income of the poor farmers especially for women headed families. Goat of Sirohi Breed was provided to 21 families. Total 51 Dove and 12 Breeding Buck of Sirohi Breed was provided with vaccination, de-worming and insurance.
- **Health and Sanitation** Construction and repairing of non-functional toilets and water tank were carried out in Rupaheli and Kotri village schools. About 1200 students were benefitted through renovation. Under this activity, well development, construction of platform & soak Pits near Hand Pumps, drinking water facility (Repairing), construction of new open wells for drinking water were provided to the villagers.
- **Adolescent girls' hygiene and health -** counseling of 180 adolescent girls were done with specialist for creating awareness on personal hygiene. They were also provided with sanitation kit.
- **Support for Sitting Arrangements** Under this project Benches and Carpets were provided in Five Schools to improve the sitting arrangements.

ENHANCED WATER STORAGE CAPACITY FOLLOWING INTERVENTIONS AT GLANCE

Types of interventions	Quantity	Enhance in Water storage capacity of structures (mcm)
New Check Dam Construction	6	10122
Pond / Talai Renovation	7	40770
Nala desiltation	12	23444.5
Open Well Recharge	2	386.53
Injection Bore wells	41	8729.105
Roof Top harvesting Structures	3	807.12
Diversion channels & Culvert	3	15318.5
Total enhanced water storage capacity (CuM)		99577.8

Case Study

The Sirohi Goat – Kamdhenu of Poor Families

Goat breed development program introduced to the goat rearing families in the project area of Holistic Rural Development Project, Bhilwara. For that, Sirohi breed was selected considering its characteristics for milk quantity and meat weight and strives well in tropical region. They are sturdy and not susceptible to extreme climate variations too. With support of HDFC Bank Ltd, each family was provided with Sirohi Goat Breed (3 Does) with 30% contribution from the beneficiaries. Imparting appropriate training and handholding support was part of the programme. The goat breed is procured from Government approved farm.

Mr. Ratan Lal from Mandpiya village is one among 21 families who benefited from Sirohi Goat breeding programme. He is a marginal farmer (3 beegha land) with large family size of 7 members. He was earning his livelihood from the allied activities of textile industries in the area. Though he has 3 cows, 6 goats and 1 buffalo (all local and low yield) as a family asset, the income from these animals was merely Rs.19000/- per year. The income from all his sources was not sufficient to meet his family needs. Therefore, to increase his family income he took more interest in rearing Sirohi goat variety.

After two months, a total of 6 Bucks & 3 Does were produced with his local breed. He sold all 6 bucks and kept Does for increasing the herd size of goat. He earned Rs.40,000/- by selling of Bucks produced through Sirohi Breeding. Mr. Ratan Lal actively participated in these entire training programs. He applied his new knowledge and skills in his agronomic practices and livestock development which helped him improve his overall income from Rs. 65000/- to 1, 60,000/- per year. Other goat rearing families are also using the breeding buck for their local breed for reproduction purpose. It has improved the goat breed quality of the entire village.

Holistic Rural Development Project for 19 villages in Kalahandi District, Odisha

PROJECT BACKGROUND

Agriculture is the main source of employment and income for the people of Kalahandi district. The major agricultural crops of the district are rice, wheat, maize, ragi, pulses, groundnut, oil seeds, cotton and sugarcane. Kalahandi is vulnerable to natural calamities like drought and floods. Huge crop loss due to inaccessibility of supplementary irrigational facilities. To address the issue, water harvesting structures like Check dams, farm pond (5% model), pond renovation, etc. were constructed with support of HDFC - CSR. Through the water harvesting structures, now farmers can manage to save the crop during uneven rainfalls or during dry spell of monsoon season. In general, farmers use the traditional method i.e. broad casting of seed for paddy cultivation and receive less yield with high cost in comparison to improved SRI technique. After awareness, orientation & demonstration, farmers started to adopt SRI method for paddy cultivation. This has direct effect on overall yield of the crop. Apart from this, thrust has been given on enhancing the water storage capacity not only for agricultural use but other livelihood options like fish rearing. Various Capacity Building programmes in different agricultural themes and exposure visits were organized. Exposure visits has changed the farmers' perspectives for applicability and replication point of view through learning by seeing concept.

Project Title	Holistic Rural Development Project for 19 villages in Kalahandi District, Odisha
Funding Agency	HDFC Bank Ltd.
Duration	1st October 2018 to 30th November 2019
Location	19 villages of Kalahandi Dist., Orissa
Beneficiaries	4149 HH

OUTPUT & IMPACTS UNDER NATURAL RESOURCE MANAGEMENT

- Renovated 6 numbers of community pond which has increased about 17065 cum additional water storage capacity. It has provided protective irrigation to about 265 acres of land of 274 farmers and increased cropping area of about 135 acres in Rabi season. It has impacted indirectly on ground water level and increased 5 ft bgl from previous years.
- Constructed 10 farm ponds which benefitted 31 farmers for 29.4 acres of land. Water storage capacity of these ponds are 5151 cum which recharges groundwater by 1030 cum. It has increased the area of Rabi crops of about 20 acres (15 farmers) and provided additional income of about Rs.1000-15000 by fish rearing activity.
- 15 numbers of dug wells are constructed comprising 31.75 acres of land of 42 farmers for protective irrigation facilities. Farmers changed their cropping pattern and adopted vegetable cultivation, trellis method vegetable cultivation, SRI, etc. and enhanced the income from Rs 35000 to Rs 55000 per family.
- Renovated 17 numbers of dug wells which availed protective irrigation facilities in 9.35 acres of land for 17 farmers.

OUTPUT & IMPACTS UNDER SKILL DEVELOPMENT & LIVELIHOOD ENHANCEMENT

- 26 numbers of Model WADI vegetable cultivations were developed. With continuous technical and handholding support, farmers were able to produce about 750-1000 kgs vegetables and after own consumption they have earned Rs 20000-22000 per family as their additional income.
- Pisciculture promoted under the project in 10 ponds of 10 villages. It has created the employment and expecting about 900 kgs of fish per year. Expected income will be about Rs. 100000/- per year.
- Initiated mushroom cultivation with 47 farmers of 14 villages ensured income generation of the poor families. Women have harvested 30 to 35kgs mushroom and earned Rs. 6000/- to Rs. 8000/- .
- 6 numbers of Farmers training were organized on agricultural practices for different crops.

- 50 farmers are supported with goat rearing unit and provided 4 does to each farmer. 7 nos GRG has been formed and Rs. 50,000/- to Rs. 100000/- deposited by the group in their GRG account. The expected income of each beneficiaries will be yearly Rs. 50000/- to Rs. 60000/-.
- 38 farmers are supported by providing 50 numbers of Kaberi variety chicks, 1 drinker, 1 feeder, 2 bag of feeds and 2 nos of k-live tonic with medicines. Each family is earning about Rs. 12000/- to Rs. 15000/ after selling at market and self-consumption.
- 60 numbers of households are supported to improve their small business. The income of the households is enhanced by Rs. 4000/- to Rs. 5000/- per month.
- 50 numbers of youths have been trained in different skills like tailoring, basic computer, driving, etc. Youths are now earning about Rs. 3000 – Rs. 8000 per month as per the skill.

OUTPUT UNDER EDUCATION & INFRASTRUCTURE DEVELOPMENT AND IMPACT

- To enhance the quality of education, renovation of 10 government schools were carried out and provided other infrastructure supports like library kit, sports kit, first aid box, etc. to 17 schools. It has decreased school dropout rate by 10% and increased attendance rate by 15 %.
- Total 3 numbers of new toilet constructed with water facility in 3 schools which has benefitted about 757 students to access better toilet facility.
- Total 9 schools linked with solar power system for electricity and piped water supply system. About 1265 School students and 57 Anganwadi center students in 8 schools are benefitted.
- Playing materials, weighing machine, furniture item and Books have been provided to 16 Anganwadi Centres for 591 students.
- World Health Day Programme was organized in collaboration with PHED, Kalahandi & World Environment Day programme is organized in the collaboration with Forest Department and District Watershed Department.

OUTPUT UNDER HEALTH & SANITATION AND IMPACT

- 278 numbers of households are benefitted and ensured for regular drinking water availability by installing 10 hand pumps.
- 985 families and 161 Anganwadi center children are ensured for safe, hygiene & adequate drinking water facilities by Hand pump repairing and maintenance.
- 10 numbers of solar piped water supply installed in 9 villages and these have ensured the regular drinking water throughout the year.
- 9 numbers of domestic animal health awareness camp organized in 9 villages covering 630 participants.

Managed Learning Engagement for Tea Program in India

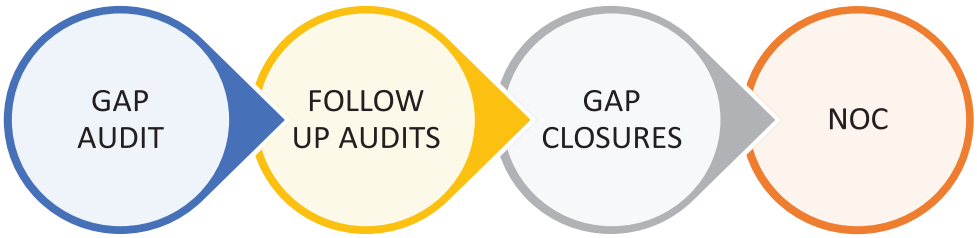
PROJECT BACKGROUND

India is the second largest tea producer and exporter of tea after china. In India, the major tea producing states include Assam, West Bengal, Tamil Nadu, Karnataka and Kerala. More than a million of workers engaged directly every year for various operations like plucking and production. As tea is a labour intensive, location specific and systemic form of agriculture, therefore, many factors contribute to production and quality. The bottlenecks crucial in the way of growth of Indian tea industry include climate change, and change in rainfall pattern, pest resurgence, soil nutrient loss resulting in decrease in yield, old age trees, and heavy reliance on chemical pesticides. In addition to the aforesaid, Indian tea industry is facing the workers' wages issue as per government notification, pending payments of PF and gratuity, low hygiene and infrastructure and housing in tea gardens, high absenteeism due to availability of other lucrative avenues outside the garden and factory, as well as presence of more favorable Govt. schemes like MGNREGA etc. The recent trend in tea industry is the emergence of small tea growers and bought leaf factories, there was a need felt for a domestic code for sustainability of the industry, and thus "Trustea" was initiated. Trustea is an Indian sustainability code and verification system for the tea sector, which addresses some of these challenges.

Project Title	Managed Learning Engagement for Tea Program in India
Funding Agency	IDH & Hindustan Unilever Limited
Duration	September 2019 to December 2020
Location	Arunachal Pradesh, Assam and West Bengal
Beneficiaries	Small Tea Growers – 3494, Tea Garden and Factory Workers - 15547

AUDIT PROCESS

AFPRO as implementing partner of Trustea Program in North India undertakes visits and assessments in interested tea gardens, factories and Small tea growers and carries out the above mentioned process of audit to provide NOC for going ahead for the main Trustea audit.



PROJECT INTERVENTIONS

- Total 19 tea gardens and factories have been given NOCs and later certified in the year 2019-20 with a total volume of around 16 million kgs of made tea, thus total 1836.69 hectares in Tea Estates and 4502.64 hectares of Small Tea Growers came under India sustainable tea Program, "Trustea".
- AFPRO as an implementing partner also imparts training to the nodal officer of the unit, known as "Trustea Officer" in codes and compliances therein.
- Also imparted training to the Small Tea Growers to meet the environmental safety, food safety, worker working conditions and worker rights in accordance with the "Trustea" code. A total of 3494 (3387 Male and 107 Female) small tea growers are enrolled in the "Trustea" Program in the year 2019-20.

FOOD SECURITY AND LIVELIHOOD

BETTER COTTON INITATIVE
VISIT OF IDH TEAM TO DEMO PLOT, NANAGORAIYA

HEALTH CARE CAMP,
IN HDFC KALAHANDI ORISSA PROJECT

HDFC: IMPROVED AGRICULTURE
PRACTICES IN BHILWARA, RAJASTHAN

DISTRIBUTION OF GOATS TO
BENEFECERIES IN HDFC: KALAHANDI

TRUSTEA: INTERACTION WITH SPRAYERS IN DHOLLA
TEA ESTATE, ASSAM

TRUSTEA: SMALL TEA GROWERS TRAINING AT
SINGHI INDUSTRY PVT. LTD. AT GOLAGHAT, ASSAM

BCI:INTERCROPPING DEMONSTRATION PLOT, HARIPAR
VILLAGE, SURENDERNAGRA DISTRICT

HDFC: DISILTATION OF POND
AT SUWANA, RAJASTHAN

WATER AND SANITATION

Holistic Rural Development Project, Meghalaya

PROJECT BACKGROUND

Ri-bhoi is one of the most backward districts in India in accordance with NITI Aayog. The area is plagued by unemployment, low agro productivity, low literacy rate along with non-commutable roads and devoid of basic necessities. The four villages have been chosen under HRDP Programme of HDFC due to their remoteness and far from the reaches of basic amenities. Most people in these villages, their livelihood based upon daily wage labour and agriculture. Agriculture is predominantly, facing challenges by the change of climate recently, due to irregular rainfall, pest etc. During rainy season, commuting between these villages and outside world is hampered every year due to non-commuting roads, therefore hindering the movement of essentials, and diseased and children. Outward migration of people is seen in all these villages due to low wages in the district, marginal agriculture.

Project Title	Holistic Rural Development Project, Meghalaya
Funding Agency	HDFC Bank Ltd
Duration	August 2017 to March 2020
Location	4 villages of Umling block, Ri Bhoi Dist., Meghalaya
Beneficiaries	226 HH

PROJECT INTERVENTIONS

- **Renovation of the Drinking Water Scheme:** Drinking water scheme in Upper Balian was not functional and considering the need of the issue, renovation of drinking water facility was undertaken.
- **Renovation of the School Building and provision of furniture:** A primary school in Upper Balian was renovated and other infrastructures like 15 benches for seating arrangement, two tables, two chairs, one almirah, etc. are provided which has improved the learning environment in the school.
- **Provision of solar lanterns with mobile charging unit:** During discussion with village leaders, it was found that villager were facing issues during night time due unavailability of electricity connection. To address the issue, solar lanterns with mobile charging units have been distributed in all villages.
- **Drinking water scheme for the village community Santipur:** Two drinking water schemes have been constructed in the village Santipur under the project. In both these schemes, a masonry diversion structure has been constructed across perennial streams. Through well laid GI pipes, water is being transported to RCC filter cum distribution tanks from where water is finally distributed to individual households. About 24 families (166 population) are benefitted from the activity.

Improving lives of People in distress through integrated approach of livelihood enhancement and water & Sanitation services

PROJECT BACKGROUND

AFPRO in collaboration with MMBL has been working in the states of Maharashtra, Andhra Pradesh, Telangana and Karnataka since the year 2015 on the need based issues. The collaboration has shown positive impact on the community in terms of improved access to safe and sustainable drinking water and sanitation services and economic development of women through entrepreneurship development. In order to scale up the interventions with selective approach, the project is implemented in four villages during the year 2019-2020. The main objective of this project is to facilitate water conservation for the community by deepening and widening of nalas on upstream area of existing check dams.

Project Title	Improving lives of People in distress through integrated approach of livelihood enhancement and water & Sanitation services
Funding Agency	Mahyco Monsanto Biotech (Private Limited)
Duration	April 2019 to June 2019
Location	Aurangabad district
Beneficiaries	Aprox 6000 people

WATER CONSERVATION INCLUDING NALA WIDENING & DEEPENING:

- The nala widening and deepening activity has been implemented on 500 mts length of nala in Persoda & Bhivgaon village.
  This has created additional water storage of 25 TCM and around 170 Ha areas brought under assured irrigation.
- The activity has benefitted 55 numbers of Farmers and will recharge around 50 wells.
  Details of the activity given in table below:

Name of Village	Average Length(Mtr.)	Average Width (Mtr.)	Average Depth(Mtr.)	Volume (Cubic Mtr.)
Persoda & Bhivgaon	500	20	2.5	25000

Water, Sanitation and Greenery Development in Identified Villages of Maharashtra, Himachal Pradesh

PROJECT BACKGROUND

Continuing Mondelez's *Shubh Aarambh* programe aim of creating a long term grassroots sustainable model which will build communities of healthy, educated and productive young people, AFPRO has been working in the states of Maharashtra and Himachal Pradesh since the year 2015. In order to scale up the interventions with more intensive approach, another two years project under *Shubh Arambh* Program was initiated to achieve measurable impact and results in the project areas. Under this project, 35 schools from Induri, Maharashtra and 21 schools of Baddi, HP have been targeted. The main objective were improvising school infrastructure particularly for water and sanitation along with Behavioural Change Communication. This project intends to bring positive improvement in the school education system due to its support for school infrastructure development like Sanitation, Drinking water, Educational material, Building improvement etc., enhance ground water potential in the area and will also support schools to build good WASH practices, using skills-based education.

Project Title	Water, Sanitation and Greenery Development in Identified Villages of Maharashtra, Himachal Pradesh
Funding Agency	Mondelez India Foods Pvt Ltd
Duration	December 2018 to December, 2020
Location	Induri, Tal-Maval, Dist.-Pune (Maharashtra), Baddi (Himachal Pradesh)
Beneficiaries	35 Schools in 17 villages of Pune & 17 Schools in 15 Villages of Baddi

PHASE-II ACHIEVEMENTS & OUTCOMES		
	Induri/Pune	**Baddi**
Safe Drinking Water	• Eleven RO System of various capacities in nine project villages installed ensuring availability of safe drinking water facility to 3235 school children and 98 School staff. School level committee has been formed and capacitated for operation and maintenance of the RO System.	• Five RO system of 500 LPH (2), 250 LPH (2) & 100 LPH (1) capacity installed at 5 schools benefiting 2,550 students.

Water Conservation & Sanitation	• Constructed new sanitation unit for Boys (2 WC + 5 Urinals) & Girls (2 WC + 5 Urinals) in Z.P. School, Sudumbre of Maval block in Pune district. This has increased access to improved sanitation facility to 350 Students from class I to VII. • Two health check-up camp organized in Induri & Kanhewadi village wherein 303 people were checked their health and tested Blood Pressure, Sugar level.	• Augmentation of existing Sanitation facilities in two schools-GPS Baddi & GSSS Baddi benefitting 1250 students. • Awareness Campaign & rally on Health and Hygiene in community area in GHS JHARMAJRI School and GHS BILLANWALI school at Baddi benefitting 1000 students. • Renovation of pond in Manpura Village, Baddi benefitting approx. 500 families, approx. 150 livestock and have 7000cum water storage capacity • One rooftop rainwater harvesting is in progress.
Greenery Development, Capacity Building & IEC Development	• Increased vegetative coverage in the project villages through plantation of 845 forest & horticultural trees and 37 medicinal plants on Grampanchayat land • Zilla Parishad School, Kundmala in Induri village covered through IEC /Wall painting activity. This helped in creating learning abilities in 39 school children from class 1 to 4. • Two Training events on Behavioral change communication organized in Kanhewadi and Induri schools on basic health hygiene, child health, nutrition, & Sanitation. This has created awareness among 240-school children on better health and hygiene practices.	• Wall painting done in five schools on the theme of water conservation, WASH practices, hygiene, etc. • Awareness drive on "Water Conservation" was carried out in 6 schools of Baddi. • Organised two Health & Hygiene awareness campagin in GHS Jharmajri & GHS Billanwali; and one awareness rally in the project cillages to create awareness among people on importance of hygiene & cleaningness in their daily lives.

Integrated Village Development in 8 Villages of Akola district of Vidarbha region of Maharashtra

PROJECT BACKGROUND

HDFC Bank Ltd. & AFPRO are committed to make remarkable changes in the lives of rural community in Vidarbha region by adopting integrated approach for water, sanitation and livelihood enhancement in the selected 8 villages of Akola Districts of Maharashtra. The project area falls in the semi-arid zone where agriculture is mainly rain-fed with mono cropping. The situation in the area is aggravated due to high climate variability, high production cost, price fluctuations and lack of business opportunities. Through this project, multifaceted activities were implemented in the project villages for alleviating the distress condition of farmers.

Project Title	Integrated Village Development in 8 Villages of Akola district of Vidarbha region of Maharashtra
Funding Agency	HDFC Bank Ltd
Duration	July 2017 to March 2020
Location	8 Villages from Akola district of Vidarbha region of Maharashtra
Beneficiaries	22484-Population, 5023 HH, 900-School Children-Boys & Girls

Sustainable Agriculture Practices:

- 1378 farmers gained awareness on crop management practices through 36 farmers training and awareness sessions on SAP which will help in optimizations of crop production with reduced input cost.
- Five exposure visits organized for 93 Farmers for enhancing their knowledge on better crop management practices, soil & water conservation, allied agriculture business.
- 32 farmers capacitated for the preparation & production of vermi compost & vermi wash. Thus, it is expected that 40 tonnes of vermi compost will be produced by the farmer. At the same time 12000 liters of vermi wash can be generated which is used as plant growth regulator.
- With crop demonstration, 14 farmers cultivated new crop varieties & got better crop production with reduction in cost of cultivation.

Soil and Water Conservation:

- 16-Farm ponds constructed benefitting 16 farmers,
- 2911 m length Nalla deepening and widening completed treating 309 Ha of land which benefitted 282 farmers from project villages.
- Constructed new reinforced cement concrete check dam of 16-meter length at Khandala village benefitting.

Livelihood Promotion activities:

- 255 women have been motivated for micro entrepreneurship development through 15 skill-based training programs.
- 3 Women SHG (30 women) started Goat rearing & 1 women SHG (10 women) started Dal mill processing unit.
- 77 landless & marginal families started generating additional income through establishment of sewing machine unit (44) and poultry enterprises (33)

Education and School Infrastructure improved by providing:

- Improvement in general health status of 155 students, due to provision of safe drinking water services through installation of 1 RO system in Ugava village School.
- Provision of safe and hygienic sanitation facility through construction of 6 sanitation units benefitting 465 school children.
- To inculcate hygienic habits among students WASH training given to 8 schools benefiting 1080 school children.

Livestock Development:

- 1879 animals were diagnosed & vaccinated through animal health camp. Created awareness among farmers about animal diseases & its vaccinations.

Improving lives of people through adoption of Selective approach for water and school Infrastructural development in the selected 4 villages of Maval/Khed Block of Pune Districts of Maharashtra

PROJECT BACKGROUND

With support from Emerson Electrical Ltd, AFPRO started project at Khed and Maval block in Pune district addressing three major concern of the area - Safe & adequate drinking water, Water conservation and School infrastructure development. The water sources in these areas has got contaminated due to fast growing industrialization, uncontrolled release of effluent into the water bodies and high use of chemical fertilizers and pesticides in Agriculture and have adverse effect on the health of the community. Though the rainfall of the area is more than 1200 mm, still availability of water particularly in the post rainy season is major challenge due to low or inadequate measures for conservation and management of water. Hence, water sustainability in the area is another challenge. Also, infrastructure base of the Government schools in the area is poor and has direct impact on the quality of education for the children. Also awareness level on the personal hygiene and sanitation among the school children is low.

This project will support in upgrading /improvising the basic infrastructure in the schools and will enable environment for learning and better health. It will also help in providing safe & adequate drinking water for community and build good WASH practices which will further support in reducing school absenteeism's.

Project Title	Improving lives of people through adoption of Selective approach for water and school Infrastructural development in the selected 4 villages of Maval/Khed Block of Pune Districts of Maharashtra
Funding Agency	EMERSON ELECTRICAL LTD
Duration	January 2019 to December 2022
Location	4 villages
Beneficiaries	15378 individuals

School Infrastructure	Drinking Water
• Installations of five E-Learning Systems have been completed in 5 Zilla Parishad schools of Maval/ Khed block. The E-Learning systems have ensured the quality education through improved E-Learning facility to 250 School Children. • Organised Seven Training events on Behavioural Change Communication in Mindewadi, Jadhavwadi, mindewadi and Thakurvasti Schools. • Improved School Infrastructure through IEC/Wall Painting in Jadhavwadi-Navlakh Umbre Village and Warangwadi-Ambi Village benefitted 100 school children. This has improved school beautification and educational learning through the informative massages.	• Access to drinking water Increased for 50 HHs in Thakarwasti of Shinde Village through construction of 25000 liters –ESR tank, Installation of lifting devices, plumbing work, and construction of stand post and distribution of pipeline is done. • RO System has been installed in Five Schools for ensuring safe drinking water to 230 School Children.

Integrated Development of tribal villages in the Dindori block of district Nasik in Maharashtra

PROJECT BACKGROUND

The Pernod Ricard India Foundation (PRIF) under the focus sectors- Water conservation, Safe drinking water, Livelihoods (both farm-based and non-farm based) and Life on land, supported project at Dindori block of Nasik district for 13 villages. The project villages are tribal dominated area with 40.74% tribal population. It falls in the watershed area of river Kadava and its tributaries. The area has lots of potential for construction and repair of water conservation structures due to its undulating topography.

Project Title	Integrated Development of tribal villages in the Dindori block of district Nashik in Maharashtra
Funding Agency	Pernod Ricard India Foundation (PRIF)
Duration	August 2019 to July 2022
Location	13 villages of Dindori block , Nasik district in Maharashtra
Beneficiaries	4474 HH

OBJECTIVES:

1. Conservation and augmentation of water resource
2. Promoting water literacy among village community to understand water related risk and work towards improved water resource planning
3. Creating enabling environment for education in the village by providing necessary infrastructure and ambiance.
4. Enhancing knowledge and skills of tribal dominated community in the areas of sustainable agriculture and livelihood development

The project visualizes to benefit around 2000 families to have access to safe and adequate drinking water, 20% increase in irrigation potential, creation of 282 TCM of additional water storage, 3200 families using improved Agricultural practices, establishment of 10 units of Income Generation Programmes (IGPs) and up to 25% reduction in use of chemical pesticides and fertilizers. The program also envisages the strong community engagement through various capacity building programs and participation of community at each level for sustainable management and creation of water resources in the project area.

PROJECT HIGHLIGHTS

- Completed desiltation, repair and strengthening of existing percolation tank in Nilwandi and Nigdol villages. This activity created 180 TCM water storage capacities, benefitting 175 Ha area and more than 100 Borewells/ Dugwells.

- Restoration of Canal at a stretch of 16 km length completed in village Valkhed. which has brought 250 Ha area under irrigation. This has also saved water due to alignment of canal and regulated water flow.
- Vermicomposting unit promoted to 130 beneficiaries and training on IPM, INM practices have supported to initiate Sustainable Agriculture practices in the area and helped in reducing cost on fertilizers.
- Excavation and support of Geo-membrane for 8 Poly has created the water storage facility for irrigation during the dry-spell/rabi season.
- Water Budgeting and water resource mapping conducted in the area which has helped in promoting demand side management practices.

Community Engagement Efforts in Andhra Pradesh and Telangana

PROJECT BACKGROUND

Monsanto has recognized the importance of investments in School, Water, Sanitation and Hygiene Education. Taking more steps forward, in Partnership with MMBL, AFPRO engaged in 'Community engagement project' addressing immediate issues in selected villages of Kurnool and Cuddapah district in Andhra Pradesh & Kamareddy district in Telangana which will help from Monsanto to have a better visibility in the area. On the basis of the need assessment study in identified villages which was done in consultation with local Monsanto officials, Panchayathi Raj Institution members along with some discussion with community, project interventions were suggested for taking up in the project.

Project Title	Community Engagement Efforts in Andhra Pradesh and Telangana
Funding Agency	Mahyco - Monsanto Biotech (India) Private Limited
Duration	June 2019 to May 2020
Location	6 Villages in 3 Districts of Andhra Pradesh and Telangana
Beneficiaries	6400 HH

Interventions

- **Construction of Toilets at Market Yard in Banaswada:** 4 urinals, 3 toilets with hand wash point (Male) & 5 toilets and one hand wash point (Female) along with a 2000-liter water storage tank.
- **Constructed Bus shelter with sitting arrangement on three sides at Bommandevpally village**
- **Construction of School Compound Wall at Budni Village** of length 868 feet and height 6 feet is in progress.
- **Community RO plants:** One 2000 LPH RO plant installed in Kalugotla village of Kurnool District which will provide safe drinking water to around 1000 households.

Impact & Outcome

- Improved overall health status of 1000 households.
- Ensured safety of daily commuters.
- Safe disposal of human excreta and urine preventing contamination of land and water.

The sustainability of the project has been assured by handing over the assets created to Gram Panchayat and School respectively after completion of construction work along with training for Operation and Maintenance.

Another initiative for ensuring Community Safety and Security, Monsanto Holdings Private Limited & Bayer Crop Science Limited supported a short term project from October, 2019 to April, 2020. Under this initiative, 40 CCTV cameras installed in a stretch of 10 Km covering 3 villages – Lalgadi Malakpet, Adraspally and Uddamar villages at Telangana. This prevents vandalism and burglary, thus improves protection of the community.

WATER & SANITATION

PRIF: CANAL RESTORATION IN VALKHED VILLAGE, PUNE

MONDELEZ: RENNOVATION OF MANPURA POND AT BADDI

MONDELEZ: IEC/WALL PAINTING IN SCHOOL IN NIGADE, INDURI

MMBL: NALA WIDENING AND DEEPENING IN PARSODA VILLAGE

MONDELEZ: SANITATION UNIT AT SADUMBRE Z.P.SCHOOL

HDFC: ANIMAL HEALTH CAMP, UGAWA VILLAGE, MAHARASHTRA

EMERSON: CONSTRUCTION OF ESR TANK IN THAKARVASTI-SHINDE VILLAGE

MMBL: MARKET YARD TOILET AT BANSAWADA TOWN

WATERSHED MANAGEMENT

Promoting Community based Water Resource Management and sustainable Agriculture

PROJECT BACKGROUND

Beed is one of the severely drought affected districts of Marathwada region in Maharashtra state. The rainfall data of the district showed decreasing trend along with increase in erraticism. This caused insecure agriculture, the very base livelihood in rural India, hence leading to migration to other parts of the state. The State government has planned for resource conservation and agricultural interventions in some of the villages in this area under POCRA (Project on Climate Resilient Agriculture) which is yet to be seen on ground. Realizing the need for addressing the vulnerabilities of local communities of Beed District, Voltas Ltd. supported the Community based Water Resource Management and Sustainable Agriculture in two blocks namely Ambajogai and Dharur. Through *'Water resource augmentation and Ground water management, Promotion of Sustainable Agricultural Practices (SAP), Developing water stewardship among the stakeholders, and identification and promotion of farm and off-farm livelihood opportunities'* the project aims at building farmers capacity in changing the present situation and improving life quality in sustainable manner.

Project Title	Promoting Community based Water Resource Management and sustainable Agriculture
Funding Agency	Voltas India Ltd
Duration	August 2019 to March 2023
Location	6 Villages in Dharur and Ambejogai block of Beed district in Maharashtra
Beneficiaries	13830 population covering 2475 HH

Project Highlights

❖ **Micro planning for situation assessment and developing long term plan**

- Socio-economic survey of 850 Households (25% of the total HHs) exercise conducted along with Participatory Rural Appraisal.
- Water resource mapping including hydro-geological study has been carried out.
- Topographical survey is carried out along with assessment of present land use pattern, soil type, soil quality, etc.

❖ **Water conservation and Artificial Recharge**

- Constructed 26 Farm pond which will provide protective irrigation to 52 ha of area.
- Constructed 12 Artificial recharge structures to strengthen the ground water source which will gradually increase ground water table.
- Desiltation of nala deepening and widening completed at 8-sites resulted in creation of 15 TCM additional storage capacity benefitting 400 no of farmers and 50 no of water sources.

❖ **Sustainable Agriculture/Climate Resilient Agriculture**

- Five Modular Training on Integrated farming system for Rabi crop conducted for 165 farmers.
- Developed IEC material on water literacy, sustainable agriculture, water conservation measures, etc. and disseminated among farmers.

❖ **Institutional Development**

- Six Training of Self Help groups imparted for strengthening of SHGs particularly for setting up small & medium enterprises.

Promoting Water Stewardship principles and better soil and crop management in the cotton growing blocks of Yavatmal district in Maharashtra

PROJECT BACKGROUND

Cotton is a predominant cash crop in five main districts of the Vidharbha in which Yavatmal district is one of the key cotton growing areas where half of the gross cropped areas is under cotton cultivators (2.37 lakh ha). Almost all of the Cotton in this region is cultivated under rain fed condition resulting low productivity. Other factors for low productivity are related to cultivation practices that are not suitable for dry farming situations (growing hybrids under low input systems, lack of water harvesting and drainage both leading to moisture stress, non-appropriate nutrient and pest management strategies, etc). Because of the low and risky productivity, the livelihood of the farmers is always uncertain.

SCI supported project at Yavatmal District of Maharashtra aims at building capacity of the Cotton farmers through Strategic interventions and technology demonstration for efficient management of water resources and promoting sustainable farming practices. The project was implemented in 10 villages of Ralegaon block with participatory and cluster based approach.

Project Title	Promoting Water Stewardship principles and better soil and crop management in the cotton growing blocks of Yavatmal district in Maharashtra
Funding Agency	Sustainable Communities India Private Limited
Duration	1st May 2019 to 31st March 2020
Location	10 Villages in Ralegaon block of Yavatmal district
Beneficiaries	2464 HH

Objectives:

- Working with Cotton farmers to integrate principles on Water stewardship, soil management and integrated pest & nutrient management.
- Promoting water literacy among village community to understand water related risk and work towards improved water resource planning.
- Capacity building of Women farmers for their active participation.
- Create a pool of local resources /Para professionals to work on Water Stewardship and sustainable Cotton farming in the area.

Project Highlights

- **Water Literacy** campaigns were conducted in all the project villages through organizing rallies, meetings, and seminars.
- **Institutional building** 217 women were trained on preparation of Neem ark & 776 women on Dashparni ark through technical support from MSRLM. Effective Market linkage of 15 groups has been developed in GP-Yevati with MSRLM. Promoted 22 Kitchen Garden enterprises through SHGs for Consumption of different Fruit vegetables and leafy vegetables in 2 villages of Yevati and Dhanora.

Water Resource mapping/assessment conducted in all the 10-project villages by using GIS techniques. 30 Observation wells were established @ 3 wells per village to have seasonal record of water levels. Desiltation of existing structure carried out at three sites (1-CNB and 2-NDW) in two project villages (Injapur & Parsoda).This has created additional water storage of 7.9 TCM benefitting about 214 Ha of agricultural land. Conducted Water Utilization Rallies on Careful Use of water, Banned Pesticides and Tree Plantation in all the 10 project village.

Farmers Capacity Building /Training
• Capacity building event on Pre-tillage and water management conducted in every project village. • Farmers Training on INM & IPM conducted in every project villages. • Total 30 demo plots & 10 control plots were established in 10 project villages. • To complement capacity building pamphlets on Water management, INM-IPM, Safety, water budgeting, FFB, handouts, etc. distributed. • Exposure visit for 49 Farmers organized at CICR, Nagpur for learning new development on cotton crop. Soil testing of 40 samples from the project villages done.
Outcomes and Impact
• 1053 farmers trained on the aspects of efficient crop and water management. • 51.80 % farmers adopted better practices in Agriculture. • 15 women SHGs from the project area established Bio pesticide preparation units. • 30 demonstration plots established and FFs conducted. • 66% reduction in usage of chemical pesticides by the demo farmers. • Testing of 40 soil health samples done. • Average 40% reduction in cost of production/Cultivation by the demo farmers.

Ground Water Recharge Enhancement Project at Harpalpur, Madhya Pradesh

PROJECT BACKGROUND

Understanding the Severity of the water crisis and significance of water management to bring out the affirmative changes in the area, Mahindra & Mahindra Ltd. has initiated the project titled “Enhancing Ground Water Recharging” in Harplapur. Rapid increase in the urban population of Harpalpur exerts an enormous pressure on ground water resources. In the peak summer and in year with low rainfall, the town reels under its worst ever water crisis. Keeping in view the topographical condition of the region, it is comprehended that the ground water boosting & water conservation is the only key for sustainable solution. AFPRO has executed the project under aegis of Mahindra & Mahindra Ltd. The objective is to enhance ground water recharge through construction of water conservation & rooftop rain water harvesting units, augmentation of existing water harvesting structures; and capacity building of community for water conservation. Judicious use of ground water, water efficient agricultural practices and restoration of environment is the ultimate solution to water crisis.

Project Title	Ground Water Recharge Enhancement Project at Harpalpur, Madhya Pradesh
Funding Agency	Mahindra & Mahindra Ltd.
Duration	1st August 2018 to 31st March 2020
Location	Harpalpur, Chhatarpur District, Madhya Pradesh
Beneficiaries	4000 HH

Output & Achievements

- **Rooftop rain water harvesting system** covered total 58 numbers of houses. Total 66250 sqft & 45000 sqft roof area connected with 58 numbers of government and private dry bore wells.
- **Rooftop rain water harvesting system in the five sheds of Mandi** covered 13100 sqft of sheds, which has been connected with dry bore well of 120 m depth, other four shed structure has average roof area of 18400 sqft which have been connected with a dry open well.
- **De-siltation of Pond** with catchment area of 35 ha. Is being done to maximize the water storage capacity. Total capacity of the pond is increased from 0.025 MCM to 0.033 MCM. Also resulted in escalation of the percolation rate of aquifers.
- **Construction of Drain/Nalla:** The nalla 1402m long has been renovated by deepening & widening, barriers were created at certain interval to reduce the water flow and impound more water in the nalla for ground water recharge.
- **Construction of Recharge Shaft:** Total 3 recharge shafts have been constructed to recharge unconfined aquifer overlain by poorly permeable strata.
- **Dyke (Underground Structure):** A cement concrete dyke of size 23m x 0.30m x 4.75m has been constructed for maximizing the efforts of water conservation and arrest the depletion of ground water storage by natural ground flow.
- **De-siltation of 3 Dug Wells:** Three dug wells have been de-silted & cleaned and covered with fabricated MS iron jali (mesh) which are connected with rooftop water harvesting system used for recharging were abandoned and filled with silt and rubbish.
- **Community Organization and Mobilization**: Total 25 awareness training has been organized in Harpalpur and surrounding villages i.e. Naupuriya, Chapran, Sarsed etc. They have been sensitized and discussed in group about the water problems like drying hand pumps, depletion of ground water, dependency on tanker water, ground water recharging, conservation of water & judicious use of ground water.

Impact & Outcome

- Total 103226 cum rainwater harvested for ground water recharged through various interventions in the project area.
- About 800 HH benefitted by hand pump recharging for drinking water purpose.
- Average 3 – 4 hours with discharge rate of 4-5 liters/ minute Increase in operating hours of hand pumps.
- 24 hours increased in operating hours of bore wells.
- Total 115 farmers directly and 45 farmers indirectly benefitted.
- Total 650 acres of land increased for irrigating Rabi crops.

Water Conservation Project in Telangana & Karnataka

PROJECT BACKGROUND

United Breweries Limited with a vision to bring about sustainable social development for its co-communities through environmental conservation and creation of social capital has partnered with AFPRO to implement integrated water resource management projects in Telangana and Karnataka. In this context 10 selected villages in 2 Gram Panchayats of Nelamangala Taluk and 8 villages in Sangareddy District of Telangana have been selected for this project. In these project villages due to the vagaries of monsoon and lack or scarcity of surface water resources, dependence on groundwater has been increasing tremendously in recent years. Also, as per CGWB report both these areas fall into over exploited zone. Realizing the UBL objective for water conservation and rejuvenation in water deprived areas it was mutually decided to initiate field level interventions to "catch the water where it falls" to raise the moisture level of the soil. The project integrates three main project components namely; assessing the water security status of the village, creating new water harvesting structure to balance the demand and supply side and capacitating farmers on efficient and productive use of water. The sustainability of the project will be ensured through technological interventions and strengthening community based organisations for future operation and maintenance of the assets created.

Project title:	**Water Conservation Project in Telengana and Karnataka**
Funding Agency	**United Breweries Limited**
Duration	November 2019 to October 2022
Location	**Karnataka & Telangana** 10 Villages of Nelamangala Taluk, Bangalore Rural District.8 villages in Kondapur Block of Sangareddy District, Telangana
Beneficiaries	7500 population, 3000 HH

Interventions	The initial meetings with Gram Panchayats, orientation to GP members & PDO have been completed.	
	Water conservation structures	
	Karnataka	**Telangana**
	The construction of 6 recharge pits in 4 villages namely Kalalghatta (2), Gundenahalli (1), Hasiruvalli (2) and Vadakunte (1) has been initiated.	Construction of 1 check dams is in progress.
Impact & Outcome	Approximately 7500 men, women and children will be benefitted by construction of recharge pits for drinking water bore wells.	3000 HHs will be benefited from this project.

Developing water secure villages through Sustainable Water Resource Management

PROJECT BACKGROUND

Maharashtra and Telangana are frequently under severe drought condition. Monsanto realizing the need of the hour to focus on efforts of water conservation and management supported project to impact larger section of population at the few clusters in these states. The project clusters were identified on the basis of ground water development status and focus is on working in semi-critical and over exploited areas. Also, AFPRO has good rapport with the community since the project villages identified are the existing villages where AFPRO was already implementing other projects. The project is planned in 2 clusters; one each in Telangana and Maharashtra states. Taking into consideration the need and existing potential for taking up water resource development; 5 Villages in Shamirpet mandal of Medchal Malkajgiri District, Telanagana and 5 villages in Viajapur block of Aurangabad District, Maharashtra is covered under the project.

Project Title	Developing water secure villages through sustainable water resource management
Funding Agency	Mahyco Monsanto Biotech (India) Private Limited
Duration	October 2019 to May 2020
Location	5 villages in Shamirpet Mandal of Medchal Malkajgiri District, Telangana
Beneficiaries	2500 HH

PROJECT HIGHLIGHTS

- 3 borewells have been drilled one each in Lalgadi Malakpet, Aliyabad and Shamirpet village. Work of 8 injection bore wells is in progress.
- Water pre-requisite of 3 villages are met from the borewells and revived structure will help in ground water rejuvenation.

Holistic Rural Development Programme (HRDP)

PROJECT BACKGROUND

The 'Holistic Rural Development Programme' chases to bring sustainable change in the life of rural communities by strengthening very rudimentary necessities for their survival. AFPRO in collaboration with HDFC Bank steps in the extension phase of the project to further encourage the marginalized communities for sustainable growth and strengthen to withstand with the vagaries of climate change. This programme was designed to address environmental conservation while supporting livelihood opportunities for the community. Long-term solutions for water conservation and management, such as check dams, pond deepening, bunding, etc. have been implemented in phased manner from the first phase of the project till the extension phase leading to improvement in agriculture, ground water regime and overall socio-economic status of the rural communities.

Project Title	**Holistic Rural Development Programme (HRDP)**	
Funding Agency	HDFC Bank Ltd	
Duration	1st April 2018 to November 2019	1st January 2019 to 31st December 2019
Location	13 project villages of Gariyaband & Raipur district, Chhatisgarh	8 villages of Mahasamund Block of Mahasamund District, Chhatisgarh
Beneficiaries	546 families, 305 farmers , 2690 school children	148 Farmers, 452 acres of land, 3473 School children, 1886 population.

Interventions & Outcomes of HRDP

Gariyaband and Raipur District

- **Promotion of SRI technique**: Approx. 50 acres of land brought under cultivation benefitting 50 farmers.
- **Construction of NADEP pits**: Constructed 39 numbers of pits benefitting 60 farmers.
- **Construction of Farm ponds**: Constructed 5 numbers of farm ponds benefitting 10 farmers and 6 acres of land.
- **RWH System**: 13 numbers rooftop rainwater harvesting system had been installed in schools benefitting approx. 1343 students and 268 families.
- **Drinking Water Cooler**: Installed 10 UV water coolers benefitting approx. 2000 School children.
- **Drinking Water Cistern**: Four number of cistern have been installed benefitting 413 school/anganwadi children & 268 families.
- **Construction/Renovation of Drinking Water facility**: Renovation completed in 7 schools benefitting 1239 school children.
- **Digital/Smart Class Set up**: This facility has benefitted 934 numbers of students.
- **Community pond renovation**: Renovated six community ponds enhancing approx. 32486 cum storage capacity and 229 acres of land was brought under secured irrigation facilities benefitting 185 farmers.
- **Special days Celebration**: Organised 8 no. of events covering 1287 School Children & 370 Villagers.

Mahasamund District, CG

- **Promotion of SRI technique**: Approx. 60 acres of land brought under cultivation benefitting 60 farmers.
- **Construction of NADEP pits**: Constructed 28 numbers of pits benefitting 28 families.
- **Construction of Farm ponds**: constructed 6 numbers of farm ponds benefitting 8 farmers and 10 acres of land.
- **Construction of changing rooms**: 8 numbers of rooms were constructed near the bathing pond benefitting approx. 586 women.
- **Drinking Water Supply**: Five drinking facilities were created benefitting 886 population.
- **Anganwadi Infrastructure**: Developed infrastructure in 12 anganwadi benefitting 300 small children.
- **RWH System**: 3 numbers rooftop rainwater harvesting system had been installed in schools benefitting approx. 337 students.
- **Drinking Water Cooler**: Installed 10 UV water cooler benefitting approx. 2836 School children.
- **Digital/Smart Class Set up**: This facility has benefitted 595 numbers of students.
- **Library establishment**: Benefitted 193 number of students.
- **Community pond**: Renovated one community pond enhancing approx. 3758 cum storage capacity and 60 acres of land was brought under secured irrigation facilities benefitting 52 farmers.
- **Special days Celebration**: Organised 8 no. of events covering 1886 **School** Children & 368 Villagers.

Integrated Sustainable Rural Development Programme (ISRDP)

PROJECT BACKGROUND

Considering the experience of the Holistic Rural Development Project (HRDP) of Tumgaon Cluster, AFPRO team and CSR – HDFC team collaboratively conceptualized another project at Mahasamund block of Chhattisgarh state with same objectives. After Rapid Rural Appraisal (RRA), both the team mutually finalized the cluster of 5 villages for the project.

Project Title	Integrated Sustainable Rural Development Programme (ISRDP)
Funding Agency	HDFC Bank Ltd
Duration	1st July 2017 to 30th June 2019
Location	Five villages of Mahasamund block of Mahasamund district, Chattisgarh.
Beneficiaries	Total 65 families and 417 school children

The project conceptualized by identifying major needs and issues of the project villages through RRA exercise. Major issues are:

- Lack of safe & adequate drinking water facilities.
- Insufficient infrastructural facilities in school & Anganwadi center.
- Inadequate system for appropriate disposal of solid & liquid waste.
- Lack of assured irrigational facilities to optimize yield.
- Less awareness of improved agricultural practices.
- Lack of formal Community Based Organizations (CBOs).

Major objectives of the project are:

- To promote rural Livelihood through farm and non- farm livelihood intervention/activities as per need based & local requirement.
- To provide safe & adequate drinking water facility to the community and also availability of water for domestic use, irrigation, agriculture, etc.
- To improve hygiene facilities/practices in the assigned 8 villages.
- To develop Infrastructural facilities & e- learning tools to school children.
- To develop Infrastructural facilities and equipments to anganwadi children.
- To empower & capacitate the community on Income generation activities and WASH.
- To organize awareness programs for mass education & cross learning.
- To improve the health of the community & addressing the environment concern.

During the project period, activities were carried out as follows:

- Four Special day celebrations were organized and 417 school children and 680 villagers participated.
- One community pond desiltation carried out which will enhance about 8100 cum storage capacity. It will further benefit to 65 HH for domestic use and 24 farmers to irrigated 42 acres of land.

Bajaj Water Conservation

PROJECT BACKGROUND

Under the Corporate Social Responsibility activities of Bajaj Group, the Bajaj Water conservation Project (BWCP) is under implementation in 22 drought prone villages in Gangapur block of Aurangabad district. AFPRO is working from 2017 onwards with Bajaj Auto Ltd. to support the overall aim of BWCP to cover an area of 59,830 ha (13000 ha through AFPRO project) addressing the need for water conservation and increasing the water availability in the project areas. The major highlights of the project are its unique model of community participation through means of cash and kind both, use of satellite images and remote sensing for thematic mapping, Institutional development and structured monitoring & evaluation procedures. Also, Government participation has been ensured through convergence with the Department of Agriculture, Soil & Water Conservation Department, etc. in their various ongoing schemes in the project region. This project is running in the fourth year and till date 17 villages have become tanker free (earlier they were dependent on water tanker supply for drinking water) and total 2000 TCM water storage capacity has been created through various interventions under Water Resource Development.

Project Title	Bajaj Water Conservation
Funding Agency	Bajaj Auto Ltd
Duration	30th November 2017 to 31st March 2022
Location	22 Villages in Gangapur block of Aurangabad district
Beneficiaries	5057 families covering 12669 ha

Highlights and outcomes:

Water Resource Development (WRD):	Agriculture Development:
• 11.92 Km Nalla Deepening and Widening (NDW) work of 4,78,579 cum has been completed in ten villages. This has created total 478.58 TCM water storage capacities. • Desiltation of percolation tank (PT) work was completed in fourteen villages and total 650903 cum of fertile soil has been shifted to Agriculture land of farmers. Total 650.91 TCM storage capacities have been created. • Constructed two cement nalla bund in two villages which has created 39.26 TCM additional water storage capacities. • Six core wall Gabion structures constructed in four villages, which has created 12.48 TCM additional water storage capacities.	• 33 number of Demonstration events done on Bio-Pesticide-Amrutjal were organized in 20 villages for 50 farmers. • 86-Crop Demonstration plots (16 on trap crop and 70 on Pheromone trap) established for 86 farmers in twenty villages. • Installed 11 number of Drip Irrigation systems for 11 farmers in nine project villages, which has brought 7.55 Ha area under micro-irrigation. • 4150 kg Grass seeding planted on NDW and PT desiltation site.

Training & Capacity Building:

Training	No. of training & Participants
Training to Village Development Committee	14, 126 members.
Capacity building of team members	6, 68 members.
Training to Jalmitra	19, 19.
Exposure Visits	17, 70 farmers (Six visits conducted at Modern Village Pato-da and one visit organized at Krushithan exhibition, Nashik)
Training on Sustainable cotton farming practices	33, 405 Farmers in 20 villages
Livelihood training	3, 157 members on Goat rearing, Dairy enterprises with the help of veterinary doctor
Water focused rally, film shows, motivational events	7, 485 School Children & VDC members
Water Literacy campaign	1 village, 25 students
Special day Celebration	6, 346 people
Training on farmers group formation & orientation	105, 3785 farmers
Decent work training	16, 597 members on fiber quality
Training of Gram Panchayat	12 villages
SHG training	15, 198 women
Training of User Groups	8, 176 members

Water resource conservation in and around Pirangut village of the Mulshi block of Pune district Pune, Maharashtra

PROJECT BACKGROUND

As a forward looking endeavor to build a resilient business that adds value to the communities and restores the ecosystems where they operate, Coca Cola India Private Limited partnered with AFPRO for 'Water Resource Conservation' project in Pune District of Maharashtra. This project is zeal towards safeguarding of available surface

water in Pirangut Village of Pune District, Maharashtra. It is being implemented within the proximity of 5 km from the Coca-Cola factory location, Pirangut. This project aims to recharge the ground water aquifers and rejuvenate existing water bodies through conservation of surface water resources & its management. It is also expected to capacitate communities on water conservation practices and its sustainable use. Thus, candid efforts by AFPRO along with Coca Cola will transform lives of marginal farmers and will give them a sustainable growth by deeply impacting their water conservation approach.

Project Name	Water Resource Conservation in and around Pirangut village of the Mulshi block of Pune
Duration	August 2019 to July 2022
Funding Agency	Coca Cola India Private Ltd
Location	Six villages in Mulashi block of Pune district in Maharashtra
Beneficiaries	18481 population

Project Highlights

➢ **Construction of New RCC Check Dam**

- Two RCC Check dams constructed at villages of Urvade and Ambegaon to harvest the surface water.
- Increased water storage capacity by 40 TCM and provided protective irrigation to 28 farmers for agricultural land located along and surroundings of the stream course during the longer dry spells.
- Helped in recharging the ground water bodies (24-dug wells and 35-bore well). Thus the overall irrigation potential of the area will be enhanced.

➢ **Desiltation and Construction of New Spillways for Existing ENB at Mukaiwadi (Chimta)**

- Around 32 TCM of additional water storage created to irrigate 20 acres of agricultural land of 8 farmers.
- Water level in 6 bore wells and 3 dug wells elevated and availability of surface and ground water impacted, which has encouraged farmers to use groundwater for irrigation of the second crops.
- Local grazing cattles and wild animals benefitted of using water to quench their hunger.
- Availability of water also influenced soil moisture regime & rejuvenated local forest ecosystem.

➢ **Renovation and de-siltation of Existing CNB at Mukaiwadi**

- Increased the water storage capacity by 3.5 TCM.
- Enhanced recharge of bore wells and open wells in the surrounding area, this has influenced more than 75 acres of agricultural land.

Enhancing Land & Water Productivity through adoption of Land Capability Based Land Use System & Conservation of Water Resources.

PROJECT BACKGROUND

Land is an asset for existence of human race; we need to conserve water and land to meet food demand. Considering the importance of land and water management IKEA Supply AG partnered with AFPRO for promoting some important interventions and indicators that can be visualized as smart land and water management practices together with production practices for sustainable agriculture. This project has been implemented in 8 villages of Jalgaon and 11 villages of Pandharka wada block in Yavatmal district of Maharashtra with the overall goal to build capacity of the farming community to cope up with the impact of climate change through systematic management of land and water resources. One of the important components of the project is 'Land Capability Assessment (LCA)' which is a rational and systematic examination of the ability of land to sustain a specific use and the level of management required to prevent significant long term degradation. This assessment was conducted for the project villages through net planning exercise. Thus, LCA will provide a means of analyzing basic land information and identifying the effect of natural land characteristics on the ability of land to sustain a desired land use.

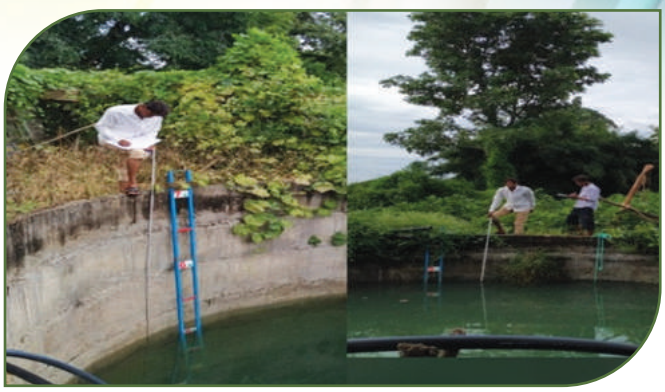
Project Name	Enhancing Land & Water Productivity through adoption of Land Capability Based Land Use System & Conservation of Water Resources
Funding Agency	IKEA Supply AG, Switzerland
Duration	April 2019 to March 2020
Location	8 village of Jalgaon and 11 villages of Pandharkawada block in Yavatmal district of Maharashtra
Beneficiaries	6000 farmers

Outcomes of the project

- **Establishment of Demo plots-** Total 30 demo plots were established in selected 10 numbers of villages focusing on the High density planting system (HDPS), IBN/ IPM and efficient water usage, etc.
- **Modular training on Integrated farming system and low external input agriculture** were conducted in each village @ 3 events per village on the aspects related to integrated farming and low external input agriculture.
- **Monitoring of Observation Wells-** 25 observation wells were established along with installation of water level indicator in each well to record the observations during every season.
- **Awareness trainings on Water budgeting, community workshops and water literacy Camp** were conducted. The GPs were supported in terms of developing long term plan for village and mobilize support from potential Government programs such as POCRA, JALYUKT, SHIVAR ABHIYAN, IWMP etc.
- **SHGs Meeting & Training on preparation of Bio Pesticides-** One training conducted on the preparation of Dashparni ark & how to maintain its strength along with its proper storage.
- **Ground water augmentation through Artificial Recharge/Rainwater harvesting** The nalla deepening and widening of 2 Km length had been completed in 6 Project villages (5 in Chopada block and one in Amalner block) creating 45 TCM water storage capacity.

WATERSHED DEVELOPMENT

VOLTAS: TRAINING OF SHG
ON LIVELIHOOD PROMOTION



SUSTAINABLE COMMUNITIES INDIA PVT LTD.:
WELL MONITORING RANVAD VILLAGE

MAHINDRA & MAHINDRA: CONSTRUCTION
OF RECHARGE SHAFT, HARPLAPUR

HDFC : (ISRPD) SPECIAL DAY CELEBRATION,
KHALLARI VILLAGE, CHATTISGARH

BAJAJ AUTO LTD : WATER CONSERVATION, IMPACT OF NDW
WORK IN VILLAGE BUTTE-WADGAON

UBL : ORIENTATION OF GP MEMBERS
KALAGHATTA GRMAPANCHAYT

COCA-COLA: DE-SILTATION AND REPAIR OF CEMENT NĀLĀ
BUND (CNB) AT MUKAIWADI

IKEA SUPPLY AG SWITZERLAND: MEETING WITH VILLAGE
REPRESENTATIVES

CLIMATE CHANGE

"Climate Change Accelerated land-Water bio-diversity degradation and Mitigation Measures & Adaptive Approach for Enhanced Agricultural Production"

PROJECT BACKGROUND

As a continuation of the previous project named *"JALGRAM PARIYOJANA",* another project developed considering the climate change aspects and tri-party agreement among "BALCO-AFPRO-NABARD" has been made to execute the project. A separate three years' agreement has been made with NABARD for Farmers' Producer Organization under the project to strengthen the collective action among farmers for better livelihood approach. One of the main objectives of this project is to enhance the water resources of the area and to promote improved agricultural practices and to minimize the vulnerability of climate change effects of the rural communities. This year, the project has focused on agriculture based livelihood and formation & strengthening of FPO.

Project Title	Climate Change Accelerated land-Water bio-diversity degradation and Mitigation Measures & Adaptive Approach for Enhanced Agriculture Production
Funding Agency	BALCO - NABARD
Duration	January 2017 to December 2020
Location	Korba Block of Korba district, Chhattisgarh
Beneficiaries	Total 65 families benefitted through these interventions and 550 acres comprised 381 farmers are also benefitted.

Project highlights and Impacts

- Total 60 farmers with 52 acres of land are covered under Soil testing. It has amplified the Yield Growth by 25% and making farmers financially more robust.
- Systemic Rice Intensification (SRI) promoted for paddy cultivation in 345 acres of land with second crop system with Wheat, Gram, and Mustard crop with 312 farmers. Rice Production has increased 1.5 times which provided additional income of approximatly Rs. 27000/- per acre to farmers.
- Irrigation technologies upgraded (alternative row, drip/ sprinkler irrigation, and solar pumps) by providing 10 No. of electric pumps, 13 diesel pumps, 23 sprinkle sets & 5 drip sets and 12 solar pumps for improved agriculture.
- 92 Acres of land brought under effective irrigation system. This helped 64 Farmers not only to enhance their production by 20% but it has optimized the water use efficiency.
- 65 families covered under Fish rearing activity.
- Constructed one irrigation well embracing 5 farmers for 3 acres of land irrigating facility.
- Formed Farmers Producer Organization (FPO) named "Korba Unnayan Producer Company Limited (KKUPCL)" with 258 farmers from four villages.
- Board of Directors and CEO are elected and capacity building for FPO is initiated for all stakeholders involved in the activity.
- AFPRO supported technically to establish 'Vedanta Agriculture Resource Centre' and carried out the activities like demonstration plot, trainings, etc.

The bottom-up approach and participation process has adopted for execution of the activities as follows:

- Conducted detailed surveys and meetings with the PRIs, community and individuals and discussed about project mandate for the information collection and suitability for the different interventions.
- Selection of beneficiaries for creation of planned activities in participatory way and procured application & NOC from beneficiaries and Panchayats.
- During implementation process of the each activity, provided technical support as per the requirement.
- Time to time guidance, supervision and monitoring is carried out during overall implementation process.

ALTERING LIFE OF YOUNG FARMERS

Korba District of Chhattisgarh is rich in water resources. But due to dearth of proper planning, most of the natural water sources are untapped which results in unavailability of water for irrigation of crops. Due to this, most of the area falls in rain fed area and farmers are bound to do single pattern paddy cropping which is a major reason for low income generation and unsustainable livelihood of the Tribal Farmers of Korba. Mr. Anuj Kumar is a young farmer from Bela village, who was working as a daily labour in nearby village and earning his livelihood. Though he had 3 acres of agriculture land and was interested for farming but due to lack of technical guidance and resources to initiate farming, he was unable to start it The project team along with the BODs visited to his land and suggested him to start paddy and vegetable cultivation as a second crop in his land which is nearby to retaining wall constructed through the project. As the land is nearer to the retaining wall, water was available for cultivation. After doing the soil test, paddy and vegetable cultivation recommended to him as second crop. Initial inputs provided as support along with continuous technical guidance. He started paddy cultivation in 2 acres of land along with vegetable cultivation in 1 acre of land. As the result of continuous technical guidance and his hard work, he harvested 30 quintals of paddy and 3.5 tons of vegetable from his land. With the support in marketing of vegetables, he could sell his produce at decent rates. It enhanced his living standard and provided him confidence to strive hard to get more production & generate more income. He has sold paddy of amount Rs. 60,000/- and vegetable of amount of Rs. 35,700/- as an income after deducting the cost of production of Rs. 40,000/-. He obtained net profit of Rs. 55,700/-. He has planned to expand vegetable cultivation in 3 acres of land and also applied for mobilizing drip units for it. Along with cultivation he has also planned to start poultry farming with the support from the project. This is how this project poses a great impact on life of tribal farmers of the villages. Many more success stories are awaited.

Climate Change Adaptation Measures for promotion of Livelihood of Rural Tribal farmers through agriculture & allied sector interventions

PROJECT BACKGROUND

The project initiated in year 2016 with aim to enhance socio-economic conditions of small and medium farmers by augmenting agricultural yield by developing water resources for providing protective irrigation in agriculture. The project has put its efforts towards direction of “Surface Water Management” which in turn leads to promotion of rural livelihoods through farm sector interventions like promotion of SRI system of paddy cultivation, ensured/protect kharif crops during dry spell of monsoon season, vegetable cultivation through Trellis method, first time Rabi crop initiation, mushroom cultivation etc. Considering the consolidation phase of the project, small impact assessment exercise was carried out. The statistics of the pre- & post- scenario, it can be said that “Rainwater harvesting measures” & “improved agriculture practices” and its allied interventions played a vital role in the enhancement of socio-economic status and engagement of the farmers, apart from environmental concern & ground water recharge as well. After reviewing the overall outcomes of the project, it is decided to expand the horizon of the project in terms of area of the project and sustainability aspects. AFPRO team developed the proposal for second phase for 11 project villages (that is 4 project villages from the 1st phase + 7 new project villages to the adjoining area) to form a cluster of 11 villages for ease operation & as per need and requirement of area.

Project Title	Climate Change Adaptation Measures for promotion of Livelihood of Rural Tribal farmers through agriculture & allied sector interventions
Funding Agency	EdelGive Foundation
Duration	January 2020 to December 2023
Location	Eleven villages of Gurur block Balod district, CG.
Beneficiaries	526 farmers comprised of 630 acres.

Project highlights & Impacts

- **Improved Agricultural practices like** SRI /Vegetable cultivation started which benefitted 146 farmers covering 105 Acres of land. Production of paddy increased up to 4 to 6 Quintals per acre as compared to traditional method. Total 6 farmers outside project village also implemented SRI paddy cultivation with the technical support from AFPRO.
- **Rabi crop Diversification** To motivate farmers to grow cash crops vegetable /mushroom cultivation was done which profited 116 farmers covering 29.52 acres. Mushroom cultivation helped for supplementary revenue generation for the women farmers. Vegetable cultivation reduced the uses of Ground water in agriculture. Improved agro practices and proper fertilizer management helps farmers to increase production.
- **Nalla/earthen channel/lining of channel** 145 acres of land comprised 90 farmers of Kaparmeta and Nahanda village benefitted through these channels. These channels provide protective irrigation to the agricultural fields nearby the Bandh.
- **SRI Training provided to** 46 farmers for paddy cultivation and **Mushroom cultivation Training** was given to 80 numbers of women – 12 women groups under Rabi Crop Diversification Programme.

Formation of Village Development Committee (VDC) for Institutional development. A sustained effort is being made to develop & strengthen. "Village Development Committee (VDC)" of the particular village. Thus for achieving the sustainability of project intervention, the focus is being given on the Institutional building at the local level with structured capacity building support and liaisoning with the local Government for developing end to end projects in the villages.

Case Study

IMPACT OF WATER CONSERVATION ON THE SOCIAL AND ECONOMIC DEVELOPMENT OF TRIBAL WOMEN FARMERS - APPROACHING A BETTER FUTURE

Kosmi is, a village situated at Gurur Block of Balod District. Most of the people of this village are tribal farmers. This village was established in the year 1985 by migrant's from "Gangrel Dam" submerged forest area. As this village comes under forest village, no development work started before 2015 due to unavailability of water. In the year 2016, EdelGive Foundation and AFPRO started working on conservation of water and climate smart modern agro techniques to improve the livelihood of the tribal farmers. The watershed approach to natural resource management connects all the components – economy, society and environment and forms a comprehensive approach to management of agriculture, forestry and allied activities in the proposed watershed area.

In the year 2016 and 2017, AFPRO constructed 2 core-walls of black cotton soil. These core-walls worked effectively in reducing the water seepage and enhanced the water storage capacity of the Bandh by 85-90 additional days. By visualizing the effect, one of the women self-help group of **"Gyan Ganga Didi Bank"** consisting of 16 women from Kosmi village, started the fish farming in these Bandhs. After discussion with the village committee and Panchayat, they started fish rearing for the 1st time in the year 2019. They took these two Bandhs on lease for 3 years with an amount of Rs. 7,500/- and invested another amount of Rs. 10,000/- rupees for fish seeds (Common Kar, Roha, Katla variety) and Rs. 10,000/- on fish net. They harvested 4.56 Quintals of fish in this year and sold @ Rs.100/- per kg. On an average generated Rs. 45,600/- and after deduction of invested money, they could earn Rs. 18,100/- from this activity. This effort with even minimal profit has given them confidence and hope for a better future. Realizing the enthusiasm and happiness among them some of the males from the village came forward and helped them in marketing. With the consistent efforts and confidence, they are ready to invest more amounts on fish seeds in the upcoming year which will give them better profit. Words from women farmers "हमर छोटे से गाँवला सहयोग देके हम मन ला रोजगार के नवा रास्ता देखाए बर हमनला एडेलगिव ओऊ अफ्प्रो ला सेवाजोहार".

Land and Water Resource Management-the main approach to Mozambique Climate Resilience Programme

PROJECT BACKGROUND

The Mozambique Climate Resilience Project provides a holistic approach to livelihood for robust 'asset' development towards risk mitigation: embedding water management to all aspect of the household activities, such as crop management techniques via increased knowledge of good agricultural practices, gender empowerment, alternative livelihood opportunities such as backyard poultry, second food crop, etc. and empowerment of village level institutions. AFPRO, as one of the partners under the project provides capacity building through technical guidance for the implementation of the activities.

Project Title	Mozambique Climate Resilience Programme
Funding Agency	IDH Sustainable Trade Initiative
Duration	1st April 2019 to 31st December 2019
Location	Mozambique
Beneficiaries	2546 families

Project Highlights and Impacts

This year, activities were focused on three major aspects under the project:

- Water conservation & Water Harvesting,
- Soil Conservation and Land Development
- Irrigation Water Management

Water conservation & Water Harvesting

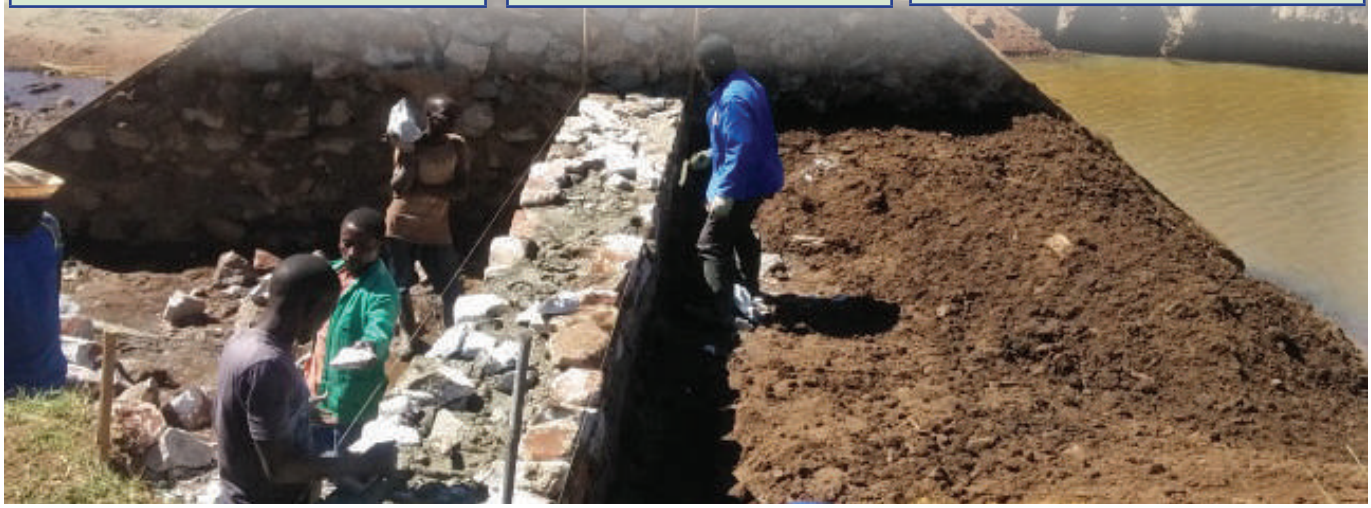
- Constructed an earthen embakement.
- Repaired and renovated one existing earthen emabakement.
- Desiltation of a check weir.
- Renovated one open well platform.
- Created about 28.4 TCM storage
- Organized two sensitization workshops with community and district level officers.

Soil Conservation and Land Development

- Constructed 1630 running meter farm/contour bunding which will enhance additional water storage of 4.890 TCM
- Conducted on the job training for field coordinators

Irrigation Water Management

- Provided technical support for repair and maintenance of irrigation water distribution system through pipeline
- Provided on the job training to field staff of SAN jfs and beneficiaries on installation and maintenance of drip irrigation system
- Provided technical support for installatin of demonstration of drip irrigation system.



CLIMATE CHANGE

IDH SUSTAINABLE TRADE INITIATIVE: VISIT OF MS. AMY TO MOZAMBIQUE PROJECT

EDELGIVE FOUNDATION: OKRA PRODUCTION AT TENGNA BARPARA VILLAGE

EDELGIVE FOUNDATION: FISH FARMING IN JOGI KONHA BANDH, KOSMI

EDELGIVE FOUNDATION: MUSHROOM PRODUCTION NAHANDA

BALCO: NABRADBOTTLE GUARD CULTIVATION BHATGAON

BALCO: PADDY CULTIVATION BELA VILLAGE

IDH SUSTAINABLE TRADE INITIATIVE: CONSTRUCTION OF ENB IN PLEXUS

BALCO: VEGETABLE CULTIVATION AT BELLA VILLAGE

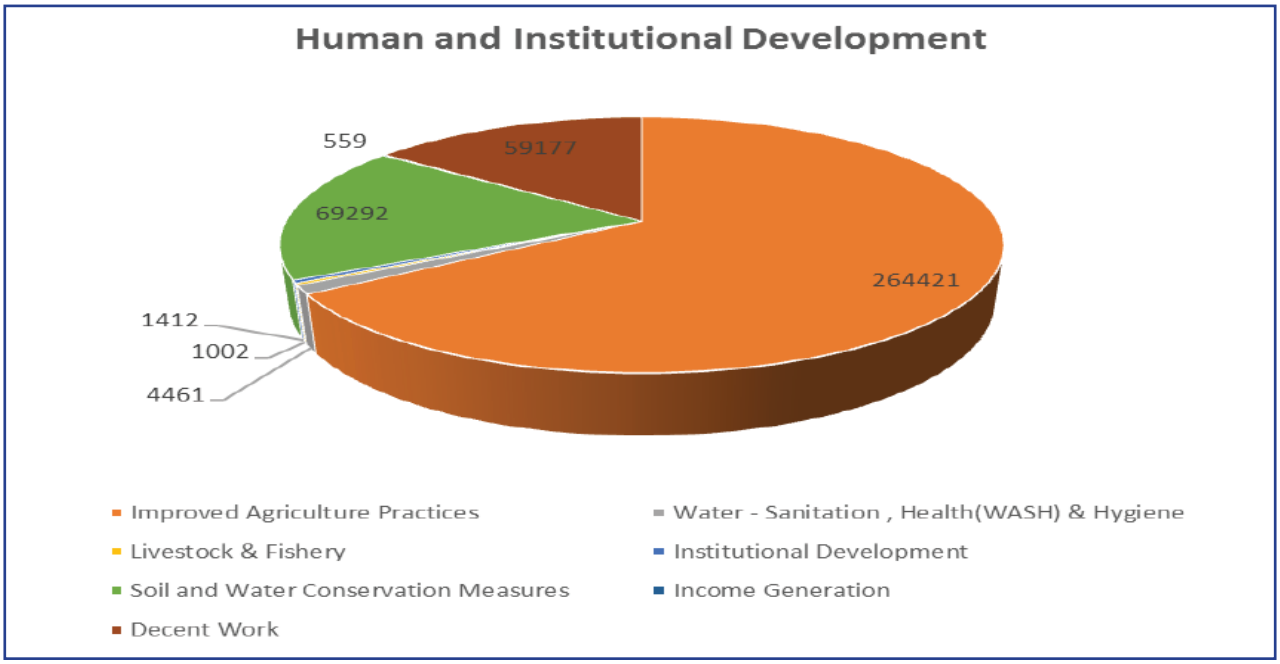
TIME TO TIME TECHNICAL SERVICES

Time to time technical services provided during this financial year (2019-20) to various Corporates & agencies in the line of Need based study/Assessment at selected villages and adjacent areas nearby plant, as per concern of CSR-officers.

ULTRATECH CEMENT LIMITED HIRMI & RAWAN UNIT	AFPRO, has conducted Need Based Study for "Water Conservation Measures/structures" at selected 34 villages of Simra Block of Balodabazar, Bhatapara District, Chattisgarh in Himri and Rawan Unit of Ultra Tech Cement Limited. Objective of the study was to evaluate the ground water potential, to identify sustainable and feasible locations for water conservation measures, to provide protective irrigation to kharif crops in lean period and rain water harvesting. With AFPRO interventions, the water storage capacity enhanced by 9,73,293 CuM.
BURNPUR CEMENT LTD PATRATU, RAMGARH"JHARKHAND	Hydrogeological Assessment study was conducted at Burnpur Cement Plant, Patratu, Ramgarh, and Ranchi. Pumping tests were conducted for two existing bore wells. Water Level Data was taken from 14 dug wells for study of water level fluctuations. 200 HHs were benefitted through this study.
M/S NUCLEUS MALL LIMITED AT GYMKHANA CLUB AREA, BOOTY, RANCHI IN JHARKHAND	Hydrogeological Assessment study was conducted for M/s. Nucleus Mall Limited at Gymkhana Club Area, Booty, Ranchi, in Jharkhand. Pumping tests in existing bore wells, water Level Data was collected from 16 dug wells for study of water level fluctuations. Through this intervention, 200 HHs were benefitted.
ADITYA CEMENTS WORKS LTD	Geo-hydrological study/assessment conducted by AFPRO on "Water conservation measures/structures in peripheral areas of 17 villages, Chittorgarh district, Rajasthan for Aditya Cement Works Limited.
WORLD VISION INDIA	AFPRO has conducted Feasibility study in 20 villages of Khurai block, Sagar, MP for World Vision India, under India Food Security Project. 15 numbers of Roof top Water Harvesting system have been installed covering 19000 Sq. Ft. roof top area, a drinking water tank with capacity of 4000 ltrs. constructed, 3 ponds were de-silted and renovated, 3 stop dams were renovated. Additional water storage capacity of 22,148 cum. has been generated through AFPRO's interventions.
VEDIC SOCIETY	AFPRO, has conducted Hydro-geological investigation at 5 locations in project villages of VEDIC Society. Total 5 sites were recommended for drilling. More than 75 families benefited through this solar based irrigation water facility. Awareness camps on water saving irrigation and repair & maintenance of the pumps were also organized for community.

HUMAN AND INSTITUTIONAL DEVELOPMENT

Human and Institutional Development (HID), the concept of coordinated effort to strengthen the capacities for action of individuals and institutions was introduced to AFPRO by Swiss Agency for Development and Cooperation (SDC). Thereafter, a special focus was given on the HID processes for both AFPRO staff and other stakeholders that fall within the ambit of actualizing social development and transformation who are in continuous need of organisation development, institution building and human resource development support to make them adaptable and resilient community. HID was imparted through various theme based trainings/workshops/exposure visits organized at organizational level and local level. In the year 2019-20, the major focus was on improved agriculture practices, Soil & Water conservation measures and Decent work. Hence strengthening local institutions and communities not only enabled social security but also enhanced support for socio-economic status for the target communities.



Improved Agriculture Practices	264421
Water - Sanitation, Health (WASH) & Hygiene	4461
Livestock & Fishery	1002
Institutional Development	1412
Soil and Water Conservation Measures	69292
Income Generation	559
Decent Work	59177

FINANCIAL STATEMENT

ACTION FOR FOOD PRODUCTION : NEW DELHI
BALANCE SHEET AS AT 31st MARCH 2020

Particulars	31st March 2020 (₹)
SOURCES OF FUNDS	
Funds and Reserve	99,906,737.47
Programme Balances	109,640,846.20
TOTAL	209,547,583.67
APPLICATION OF FUNDS	
A) Fixed Assets	
i) Gross Block	56,620,348.28
ii) Less: Depreciation	46,147,785.28
iii) Net Block	10,472,563.00
iv) Capital Work in Progress	-
	10,472,563.00
B) Investments	108,442,450.00
C) Current Assets	
i) Interest Accrued on Deposits	4,129,702.04
ii) Recoverables & Prepaid Expenses	2,704,376.39
iii) Cash & Bank Balances	96,084,268.59
	102,918,347.02
D) Less: Current Liabilities & Provisions	12,285,776.35
Net Current Assets	90,632,570.67
TOTAL	209,547,583.67

As per Books of Account,
explanations & information provided to us

Cyriac Mathew
Manager - Finance & Admn.

D. K. Manavalan IAS (Retd.)
Executive Director

(Martin P. Pinto F.C.A.)
(Membership No. 085006)
for Pinto M. P. & Associates
Chartered Accountants
Firm Regn.No.006002N

Place: New Delhi
Date: 24.09.2020

FINANCIAL STATEMENT

ACTION FOR FOOD PRODUCTION : NEW DELHI
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2020

Particulars	31st March 2020 (₹)
INCOME	
Programme Contributions	1,149,907.00
Miscellaneous Receipts	14,461.16
Sale / Disposal of Assets / Old Items	106,607.28
Interest - Savings & Deposits	3,701,814.39
Total	**4,972,789.83**
EXPENDITURE	
Core Integrated Development Programme	
Human and Institutional Development	2,214,573.00
Socio - Technical Personnel Cost	29,580,580.35
Outreach Support	1,015,919.00
Information Services	242,832.48
Administrative Cost	
Admn. - Personnel Cost	8,782,686.60
Outreach Support	116,093.00
Office Exepenses	4,320,129.38
Hired Services	2,610,015.84
Capital Expenses	70,718.00
ED's Discretionary Fund	99,430.00
	49,052,977.65
Excess of Expenditure over Income Transferred to :	
Programme Fund	(44,080,187.82)
Total	**4,972,789.83**

As per Books of Account,
explanations & information provided to us

Cyriac Mathew
Manager - Finance & Admn.

D. K. Manavalan IAS (Retd.)
Executive Director

(Martin P. Pinto F.C.A.)
(Membership No. 085006)
for Pinto M. P. & Associates
Chartered Accountants
Firm Regn.No.006002N

Place: New Delhi
Date: 24.09.2020

Significant Accounting Policies: Notes to Accounts

Significant Accounting Policies:

(i) Basis of Accounting:

The financial statements have been drawn up under historical cost conventions, on accrual basis of accounting.

(ii) Revenue Recognition

a) Contribution received towards the core programme are recognized as income to the extent of the expenditure incurred on this programme. Contributions, grants, donations and receipts received without any specific direction are recognized as income.

b) Funds received for a particular programme / project (other than the core programme) are recognized as Programme Contributions in the Balance Sheet and expenditure incurred against such funds is reflected against the particular fund. The unutilized portion of such contributions, grants, donations are retained as part of Programme Balances for utilization as per the donors' directions. Where AFPRO meets the stipulations provided for accessing particular funds for its own use, such income is transferred to a Programme Fund forming part of Funds and Reserve in the Balance Sheet.

c) Interest earned on savings bank accounts is reflected in the income and expenditure account after allocation of such interest derived on unutilised donor funds, which is allocated to the relevant programme balance accounts and in the case of the core contributions it is recognized as income and forms part of such core contributions.

d) Interest earned on investments allocated for a particular fund is credited directly to that particular fund. Interest earned on other investments i.e. fixed deposits placed for more that one year, is credited directly to the general reserve.

e) Foreign Contributions are accounted for on the basis of the credit advice received from the bank.

(iii) Fixed Assets:

Fixed Assets are stated in the Balance Sheet net of depreciation, with a corresponding credit to the Capital Fund Account. Assets received as donation in kind, are incorporated at a value stated by the donor and adjusted for depreciation.

The cost of assets is charged in full to the relevant programme in the year of acquisition. Cost of acquisition is inclusive of freight, duties, levies and any directly attributable cost of bringing the assets to their working condition for intended use.

(iv) Depreciation:

Depreciation on fixed assets are charged on the Written Down Value (WDV) method at the rates prescribed under the Income Tax Rules with a credit of the assets account and correspondingly reflected in the Capital Fund Account.

(v) Investments:

Investments include long term fixed deposits having a maturity period exceeding one year at the time of placing the deposit and reflects principal amount placed as deposit. Mutual funds reflects the amount invested.

(vi) Retirement Benefits:

Contribution to Provident Fund is charged to the relevant programme as attributable to the concerned staff. Encashment of leave at the time of retirement is permissible and in special cases at the discretion of the management during the tenure of employment. A Group Leave Encashment Scheme insurance policy to cover the liability has been taken with Life Insurance Corporation of India (LIC). The amount paid to LIC is charged to the revenue.

Gratuity payments are covered under the Group Gratuity Scheme of Life Insurance Corporation of India (LIC). The premium paid during the year is charged to revenue.

2. NOTES TO ACCOUNTS

Action for Food Production has been notified by the Government of India as an institution of national importance in terms of Section 10(10C)(viic) of the Income Tax Act 1961.

No provision for taxation has been made as the Society is registered under Section 12A of the Income Tax Act 1961 and claims exemption under Section 11 of the Income Tax Act 1961.

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