



BAIF LIVELIHOODS – ODISHA & CHHATTISGARH

Committed to Sustainable Rural Development.....



ANNUAL REPORT 2023-24

**BAIF Institute for Sustainable Livelihoods and Development
(BAIF Livelihoods – Odisha and Chhattisgarh)**

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- BAIF Development Research Foundation (BAIF) – Public Trust under Bombay Public Trust Act, 1950. Founded in 1967 by Dr. Manibhai Desai.
- BAIF Livelihoods - Not for profit Company under Section 25 of Companies Act, 1956 (Section 8 of the Companies Act, 2013). Established on April 16, 2012.
- BAIF Agro and Biotechnology Pvt. Ltd. (BABTPL).
- Vasundhara Agri-Horti Producer Company Ltd. (VAPCOL).

To know more about our Founder and BAIF programmes, please visit www.baif.org.in



Our inspiration...

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Founder, BAIF

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Front cover photographs (Clockwise from top-left): Shri. Damrudhar Pradhan, Wadi participant with his farm produce; Daughter of livestock programme participant with project progeny; Shri. Balia Munda from Jujomura selling farm produce in local market; Smt. Rasmita Sahu from Sambalpur; Shri. Ananta Mirdha showcasing in-situ water harvesting.

Message from Regional Director

Overview

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MESSAGE FROM REGIONAL DIRECTOR



I have immense pleasure in presenting the progress and highlights of BAIF's Odisha and Chhattisgarh Programmes during the year 2023 – 24.

BAIF's Odisha Programme is being implemented across 22 of the 30 districts including the aspirational districts of Balangir, Kalahandi, Koraput, Nabrangpur and Nuapada. The year witnessed the consolidation of the programme in 04 districts of Chhattisgarh.

The generous support extended by the project sponsors during the year – Government of Odisha, Mahanadi Coalfields Ltd., Bill and Melinda Gates Foundation, Adani Foundation, JSW Foundation, HDFC Bank, Charity for Goodness Foundation, Jindal India Thermal Power Ltd (JITPL), Atul Foundation, Bioversity International, District Mineral Foundation (DMF) – Keonjhar and ArcelorMittal Nippon Steel (AMNS) is valued and gratefully acknowledged. It aligns extensively with the twin objectives of societal transformation and national development. A MoU has been entered into with the Directorate of Animal Husbandry and Veterinary Services, Odisha for supply of semen for artificial insemination in goats. The year embarked on new partnerships with DMF – Keonjhar and AMNS for strengthening rural livelihoods.

It is commendable that Shri. Anil Pradhan, BAIF Cattle Development Centre In-Charge from Angul district, was awarded the prestigious National *Gopal Ratna* Award 2023 (2nd position) of the Government of India for outstanding contributions to cattle development. BAIF's initiatives in fodder development for dairy productivity was presented at the "*Matsya-Pranee Samavesh Odisha 2024*" (Fisheries & Animal Husbandry Conclave) organised by the Government of Odisha.

The State programme aims to contribute to the Sustainable Development Goals (SDGs) of combating poverty, health, food security, sanitation, clean energy, sustainable growth, empowerment and climate change mitigation-adaptation. The resolve of multiplying farmer income and enhancing living standards is reinforced by targeted outreach of the weaker sections and the un-served. Along with sustainability, concerted efforts are laid on inclusive development in consonance with the Nation's mission of *Viksit Bharat*.

The support and cooperation from all stakeholders – sponsors, partners, participants, BAIF team and associates have been of tremendous encouragement. We remain indebted and look forward to continuous support for strengthening the rural communities and economy. The valuable guidance from BAIF's senior management and well-wishers is gratefully acknowledged.

Jai Hind!

Rakesh Warriar
Regional Director
BAIF Livelihoods – East Region

OVERVIEW



I am pleased to present the progress of Odisha and Chhattisgarh. During this year several milestones in sustainable rural development were achieved across 4,373 villages in 22 districts impacting over one lakh families. The programme covers various components of livelihood, climate action, health, education etc. for enhancing the standard of living of marginalised communities.

The livestock development programme reached out to 30 districts of Odisha with the support of Government of Odisha. 952 Multipurpose AI Technicians in Rural India (MAITRIs) took the initiative to provide allied breeding services at farmers' doorsteps. The programme flourished with integration of various technologies such as sorted semen use, genomic mapping, fodder development and preventive healthcare.

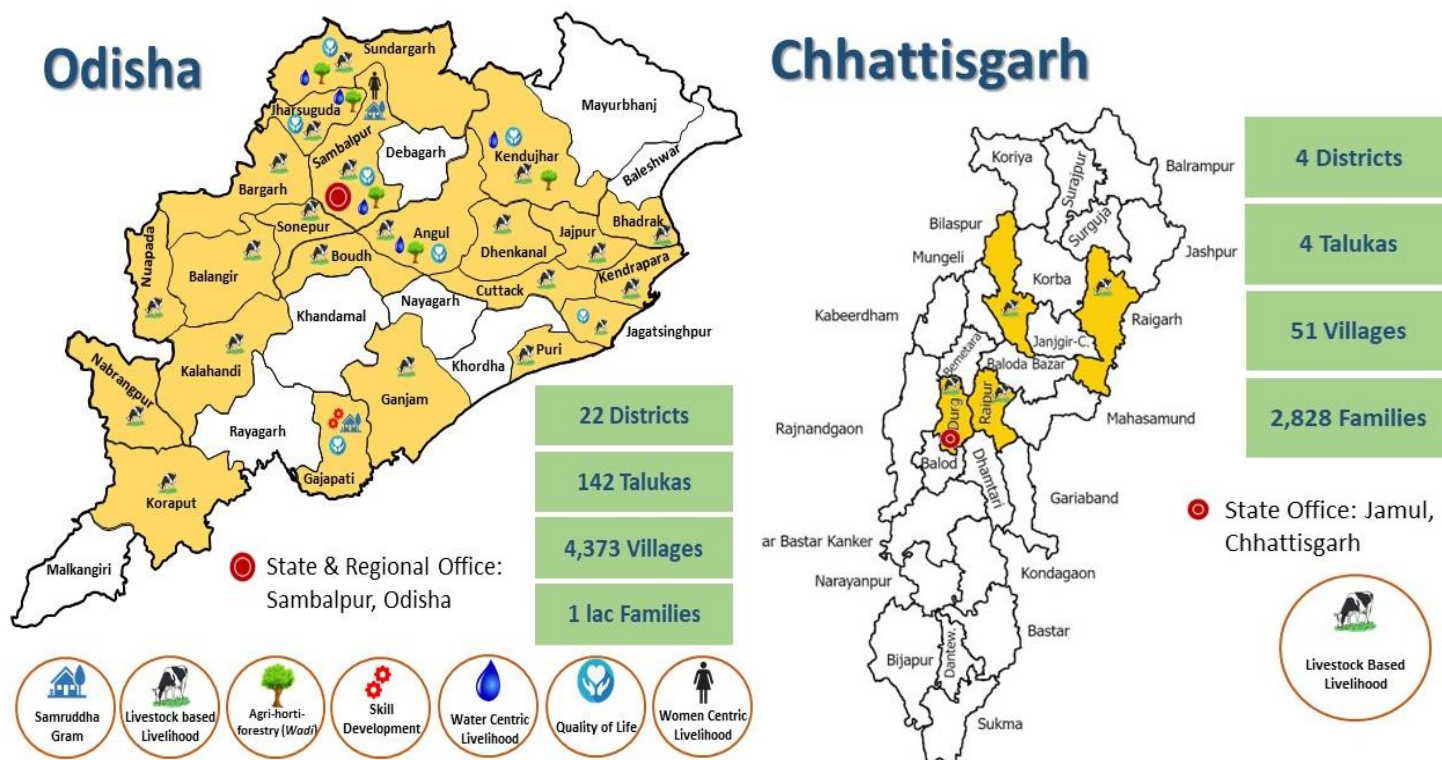
The tangible outcomes of the livestock development programme were the birth of 12,845 high genetic merit female bovine progenies worth Rs. 25 crores. Additional efforts in farm-based livelihoods development programme, including wadi, climate resilient farming made a sustainable impact in the lives of more than 10,000 families. The non-farm sector encompasses a wide range of economic activities and livelihood opportunities including micro enterprises for improving the skills of rural women and to give a boost to the rural economy.

The constant support from our esteemed partners and sponsors in empowering the farmers of the state through the initiatives is commendable and is gratefully acknowledged. The valuable guidance and support from the Management is greatly appreciated.

Thank you!

Sandip Kakade
State Head
BAIF Livelihoods – Odisha and Chhattisgarh

2023-2024 At a Glance and Programme Coverage



MISSION

"To create opportunities of gainful self-employment for the rural families, especially disadvantaged sections, ensuring sustainable livelihood, enriched environment, improved quality of life and good human values. This is being achieved through skill development, effective use of local resources, extension of climate smart technologies, facilitation for value chains of farm-produce and community participation."

VISION

"Building a self-reliant rural society assured of food security, safe drinking water, good health, gender equity, low child mortality, literacy, high moral values and clean environment."

CORE VALUES

Well- being | Excellence | Sustainability | Transparency | Equity | Participation

PROGRAMME HIGHLIGHTS

1. LIVELIHOOD PROGRAMMES

A. Livestock - based Livelihoods

Livestock - based livelihoods are a crucial component of rural economies around the world, providing a vital source of income, food security and employment. It serves as a financial asset and safety net, helping families to weather economic shocks and natural disasters. Additionally, livestock farming often plays a significant role in cultural traditions and social structures. Sustainable livestock management practices are essential for ensuring the health of the animals, the well - being of the farmers and the protection of the environment. This multifaceted livelihood strategy thus not only supports economic stability but also enhances resilience and contributes to the broader goals of rural development and poverty alleviation. Major projects implemented in the state under this thematic component are outlined below.



1. Training of Youth and Scaling up Bovine Breeding Services through Establishment of Multipurpose AI Technicians in Rural India (MAITRI)

Sponsor: Odisha Livestock Resources Development Society (OLRDS)

Location: All 30 districts of Odisha

Duration: June 2022 to May 2024

Major Achievements: The project aims to empower local rural youth with skill development to provide self - sustainable breeding and allied services at farmers' doorstep. A holistic approach has been followed to integrate skill development with livelihoods and quality. service delivery, fostering breed improvement and propelling dairy sector development. So far, 30 days classroom training of 1,341 candidates and 60 days field training of 1,341 candidates have been carried out. 1,491 MAITRI candidates have been selected from all the districts. So far, 952 MAITRIs have entered into agreements to provide allied breeding services at farmers' doorsteps. Training for these MAITRIs was provided by the Animal Husbandry Staff Training Institute & Extension Training Centre (AHDSTI & ETC) in Ganjam, the Livestock Inspector Training Centre (LITC) in Balangir and Sambalpur, Regional Training Centre in Balasore and OMFED Training & Demonstration Centre in Khurda.

2. Livestock Development Programme

Sponsor: Adani Foundation

Location: Bhadrak district, Odisha and Raigarh, Raipur, Durg and Bilaspur districts, Chhattisgarh

Duration: April 2019 to March 2026

Major Achievements: The project is being implemented in the peripheral area of Dhamra Port in the Chandbali block of Bhadrak district, Odisha, with six Cattle Development Centres (CDCs). In 2022 - 23, the

project was extended to Chhattisgarh, adding two CDCs in Raipur and Raigarh districts, with two more CDCs added subsequently. The overall objective of the project is to augment the livelihoods of households in the cluster through sustainable initiatives related to dairy husbandry. During the year, a total of 5,248 artificial inseminations have been performed, utilizing 1,237 doses of conventional semen and 3,021 doses of sex - sorted semen. A total of 915 calvings occurred in a year, resulting in 232 male calves and 683 female calves. With focus on green fodder availability, 294 demonstrations covering both perennial and seasonal fodder have been conducted to ensure the availability of fodder.

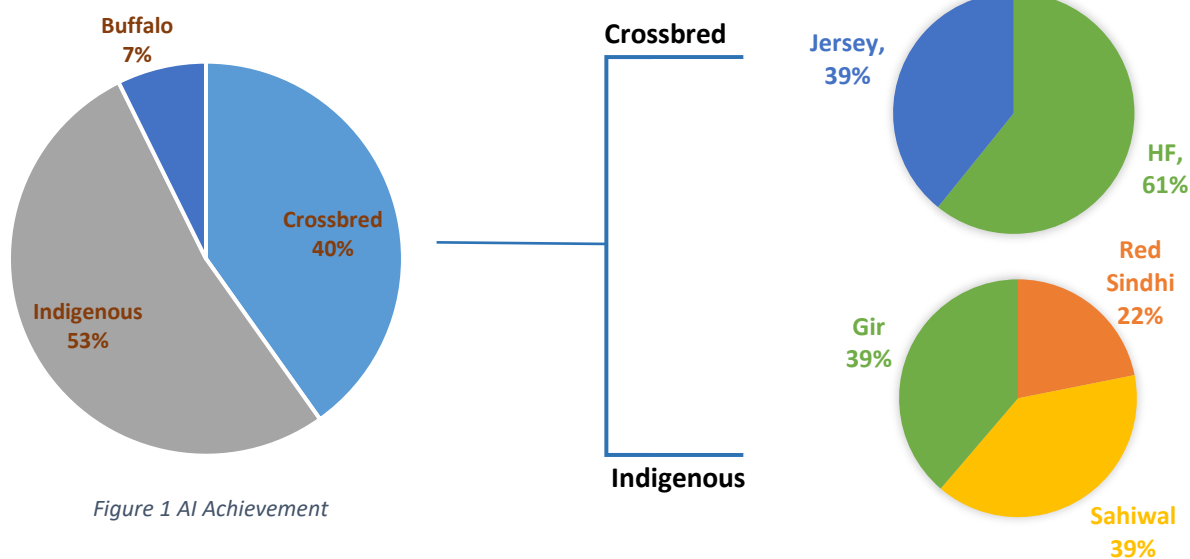


Figure 1 AI Achievement

Livestock Support: Access to Quality Breeding



Shri. Bhagat Ram Patel, a 50-year-old farmer from Karichhapar village in Raigarh district, Chhattisgarh, faced challenges in maximizing milk production from his 14 HF breed cows due to lack of knowledge on optimal feeding practices. With an annual income of Rs. 3 lakhs, his household of five struggled financially. Upon learning about the Adani Foundation's Livestock Development Programme through BAIF staff, Bhagat

Ram joined the programme and received training on feeding practices and maize seeds for fodder cultivation. This led to a significant increase in milk production to 100 litres per day, raising his annual income to Rs. 4,00,000. Bhagat Ram now advocates the programme, highlighting its transformative impact on rural livelihoods and encouraging fellow farmers to participate for improved agricultural sustainability and economic growth.

Key Highlights



Annual outreach of more than 2,000 farmers

Birth of over 900 progenies of high genetic merit; promotion of indigenous 53% breeds.

Asset will be created at farmer level worth over ₹1.4 crore from project - born female calves.

Annual milk production will increase by over 2.5 lac litres, worth more than ₹8.4 lakh.

3. Enhanced Genetics Project (EGP)

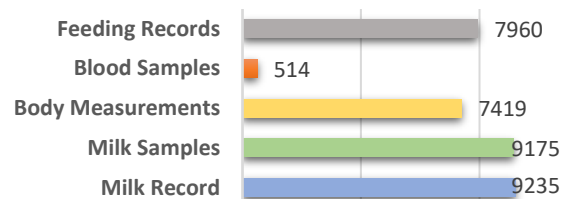
Sponsor: Bill & Melinda Gates Foundation

Location: Angul and Balangir districts

Duration: January 2023 to October 2024

Major Achievements: The project focuses on several key activities to achieve its objectives in the livestock sector. These activities include milk sample collection, milk testing, body measurement, feeding practices and blood collection programmes. The objectives are to understand the genotype environment interaction, establish a platform for genomic selection among crossbreds, implement a multibreed and multi - trait genomic selection programme for cattle and buffaloes, evolve a farmer feedback system, demonstrate and implement a business model and source potential bull calves for semen production. Overall, the project aims to gather data, improve genetic selection, involve farmers in the feedback process and showcase a sustainable business model in the livestock sector.

Multi - trait genomic selection



4. Goat Artificial Insemination Programme

Sponsor: Tata - Cornell Institute

Location: Chhendipada block, Angul district

Duration: January 2023 to June 2024

Major Achievements: The goat AI programme aims at enhancing breeding practices by using artificial insemination technique in goats. It focuses on improving genetic traits, increasing productivity and promoting better flock management in goat farming. The research - based programme focused on four villages in Angul block. Over 5,000 animals were tagged, dewormed, vaccinated, provided with mineral mixture support and castrated, benefiting 200 households during the year.

5. Godaan

Sponsor: Atul Foundation

Location: Balangir district

Duration: January 2023 to March 2024

Key achievements: The project aims for the meaningful induction of milch cattle in the village of Muribahal Block, Balangir District, with the objective of providing sustainable self - employment to 125 needy families through animal husbandry. This initiative encompasses activities such as the implementation of Sex Sorted AI, fodder cultivation and training. This comprehensive approach ensures an integrated focus on improving breeding practices, sustainable agriculture, fodder supply, ultimately enhancing the livelihoods and economic stability of the participating families.

Key Highlights



Cow induction has been introduced for 125 ST families.

45 Sorted Semen AIs have resulted in 8 female calves.

25 silage units, 100 azolla beds, and 100 Urea Treated Paddy Straw (UTPS) bags have been promoted across 125 households.

7. Breeding Bull Production through Assisted Reproductive Techniques and Genomic Evaluation

Sponsor: Directorate of Animal Husbandry and Veterinary Services, Govt. of Odisha

Location: Cuttack and Sambalpur districts

Duration: April 2022 to March 2026

Major Achievements: Project deliverable shall be the availability of 68 breeding bulls by 2025 - 26 conforming to Government of India MSP norms produced through a combination of different assisted productive and latest breeding techniques. Demonstrated commitment to enhancing cattle breeding by introducing superior genetics through embryo transfer technology, contributing to the improvement of dairy farming in the region and supporting the state efforts of the Government of Odisha in livestock development.

A total of 34 embryo transfers have been performed in Boudh and Sambalpur. Recently, 2 calves have been born, marking a significant milestone.

8. Strengthening of Livestock & Animal Husbandry Programme

Sponsor: Directorate of Animal Husbandry & Veterinary Services, Government of Odisha

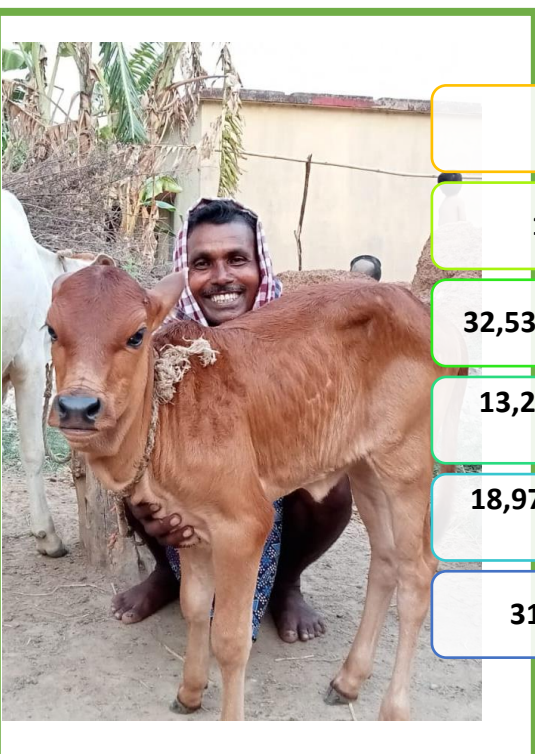
Location: Angul, Balangir, Ganjam and Sambalpur districts

Duration: May 2022 to March 2024

Major Achievements: The project involved the engagement of 53 programme assistants to strengthen the implementation of Animal Husbandry and veterinary schemes and services at the block level, ensuring enhanced support and sustainable development for rural communities.

Over ₹12 crore in convergence was achieved this year through this programme.

Overview of livestock development programme in Odisha state



295 CDCs

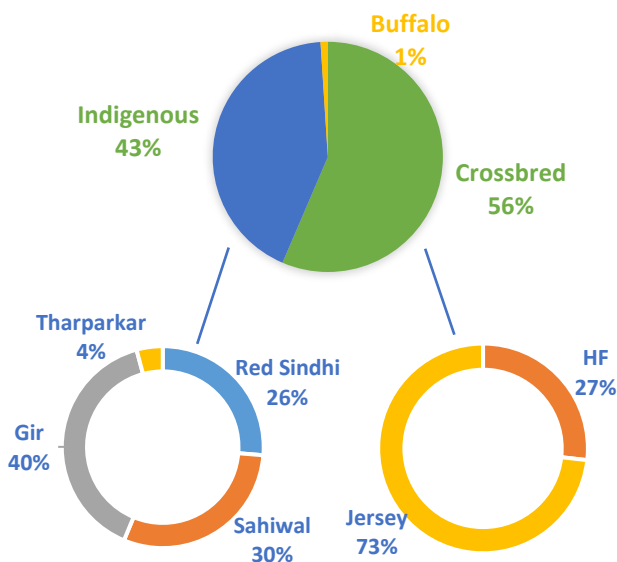
16,269 HH

32,539 AI performed

13,245 Indigenous bred

18,972 Cross/exotic bred

316 Buffaloes



Total: 25,670

Calves born

12,825
Male

12,845
Female

Livestock being a major contributor to the family income and being in abundance in Odisha in the form of both small and large ruminants, there are several other holistic - themed projects operating with the support of CSR partners which cover livestock activities as a part of the intervention package.

B. Water - centric Livelihoods

Water - centric livelihoods in rural areas are crucial for community well - being, providing essential income and food security. Activities like agriculture, aquaculture and small - scale irrigation rely on sustainable water management. Effective practices such as rainwater harvesting and efficient irrigation boost productivity and resilience against environmental challenges. These initiatives foster community cooperation, ensuring long - term water availability and ecological balance. By focusing on water - centric livelihoods, rural communities can achieve economic stability, environmental sustainability and improved quality of life.



1. Comprehensive Community Development Programme (CCDP) - Utthan

Sponsor: Mahanadi Coalfields Ltd.

Location: Angul, Jharsuguda, Sambalpur and Sundargarh districts

Duration: May 2019 to November 2024

Major Achievements: The project spans 40 villages across 4 districts, aiming to improve livelihoods and quality of life through holistic initiatives. Sustainable livelihoods are supported by creating year - round income sources, while quality of life efforts focus on awareness and behavior change, utilizing improved practices and technologies. The project covered 4,567 participants. During the year 1,443 households benefitted from water resource development and improved agricultural practices. The *Kharif* season focused on yield enhancement and the *Rabi* season on expanding cultivated areas with new crops. Income diversification has been achieved through integrating water harvesting, conveyance, water - use efficiency and post - harvest management, along with adopting improved cultivation practices for residue - free production over 550 hectares since inception.

Boosting Agriculture: Transforming dreams into reality

Meet Smt. Santilata Sahu, a 40-year-old farmer from Mundamalsahi village, Chhendipada, Angul district, Odisha, who, despite limited education, has shown remarkable resilience and innovation in agriculture. Alongwith her husband and children, she expanded from small-scale paddy and vegetable farming to diverse and profitable crops like cauliflower, bitter gourd, pointed gourd, brinjal and broccoli.

With a focus on market demand, modern techniques, and the use of a vegetable cooler for storage, Santilata significantly increased her income to Rs. 60,000 and improved her family's quality of life. Her success exemplifies the transformative power of determination and innovation, inspiring other women farmers to pursue their agricultural dreams.



Major Outcomes



Increase in cultivating area to 553.9 ha.

Improved cultivation practices leading to 20% increase in yield.

Total 4,567 farmers covered through improved agricultural practices.

Increase in cropping intensity by 170%.

Additional income of ₹20,000 per year from vegetable cultivation.

2. Holistic Cluster Development Programme (HCDP)

Sponsor: JSW Foundation

Location: Joda and Koira blocks in Keonjhar and Sundargarh districts respectively

Duration: November 2021 to October 2024

Major Achievements: The project covers 17 villages in the mining areas of JSW Steel in Keonjhar and Sundargarh districts. It aims to improve water resources and benefits 140 households. This year, the project focus on the following major activities:

- Installing 10 solar - powered water lifting units to generate clean energy.
- Supporting 133 families to grow vegetables on 13.4 hectares of land, enabling each family an average income of Rs. 45,000.
- Encouraging farmers to adopt trellis farming, saving water compared to traditional flood irrigation, and constructing loose boulder structures for soil and water conservation.

Below is a list of major activities undertaken since inception:

- Excavation of 16 farm ponds with cumulative storage potential of 12,000 cubic metre.
- Soil and moisture conservation work has been undertaken on 100 ha area through farm bund - cum - trench.
- 20 farmers have adopted micro - irrigation techniques, demonstrating their commitment to sustainable and efficient water management practices in agriculture.

Solar Harvest: Shining fields

Shri. Lakhan Kumbhar, a resilient 62-year-old marginal farmer from Kendudihi village in Joda Block, Keonjhar District, faced challenges in small-scale vegetable cultivation due to high irrigation costs and limited farming area. Through the Holistic Cluster Development Programme by the JSW Foundation and BAIF, he received solar lift irrigation support in April 2023, aimed at reducing fuel costs and expanding cultivation area. With guidance on best management practices, Lakhan quickly adopted new techniques, expanding his cultivation area from 50 decimal to 2 acre and increasing his annual income from Rs. 95,000 to Rs. 2,00,000. Solar lift irrigation not only reduced his fuel costs by Rs. 30,000 annually but also earned him recognition as a Progressive Farmer by BAIF. Lakhan is now motivated to sustain his farming practices with solar energy, expressing gratitude to the JSW Foundation and BAIF for their support and guidance in transforming his farming and bringing prosperity to his family.



Key Highlights

Ensuring water availability to more than 140 households during lean months.

Increased income by ₹30,000 per family per season through improved agriculture practices.

Water harvesting of 12,000 cubic metres through farm pond in a year.



3. Sustainable Agriculture for Alternative Livelihoods (SAFAL)

Sponsor: ArcelorMittal Nippon Steel India Limited

Location: Jagatsinghpur district

Duration: September 2023 to August 2026

Major Achievements: The project aims to cover 12 villages in Kujang block of Jagatsinghpur district. The programme aims to enhance community living standards through water - centric livelihoods, increasing post -

monsoon cropping intensity, introducing high - value crops, diversifying income and ensuring water availability and access. So far, 250 households have been covered under various livelihood interventions.

4. Focused Rural Development Programme (FRDP)

Sponsor: HDFC Bank

Location: Jujomura, Naktideul and Rairakhol blocks of Sambalpur district of Odisha

Duration: January 2022 to December 2024

Major Achievements: The project is spread across 3 blocks of Sambalpur district with livelihood and quality of life at its core. So far, this project has benefitted 1,000 farmers under water centric livelihoods. This includes establishment of 241 farm ponds and support of 310 water lifting devices which have resulted in water harvesting potential of 55 TCM and irrigation of 50 ha thereby enabling irrigation during dry spells. The surface storage structures will aid during post monsoon period. In addition, 3 units of desiltation of stream have been completed alongwith gabion structures to aid farmers in soil erosion control, water management, land leveling and crop protection. 96 well repair work has been carried out across 3 clusters to enhance safety, promote cleanliness and drudgery reduction.



From Water Scarcity to Prosperity

Smt. Rasmita Sahu, a dedicated farmer from Paikmal village in Sambalpur dist. of Odisha, faced water scarcity, limiting her 1 ha farm to a single *Kharif* season crop of pulses. Like many in her community, she struggled with limited water availability. In March 2023, support from FRDP project enabled the construction of a farm pond, allowing year-round cultivation of diverse crops like brinjal, cucumber, okra and beans which gave a boost to her income by Rs. 1,15,000 and reduced vulnerabilities to seasonal challenges. Inspired by this success, the Sahu family plans to cultivate ginger, turmeric and integrate aquaculture by investing in fingerlings of Rohu and Mrigal variety of fish for their farm pond thereby demonstrating resilience, hope for greater profitability and the transformative power of strategic agricultural interventions.

Major Outcomes



In-situ water harvesting potential of 55 TCM created with water harvesting structures providing critical irrigation.

Irrigation of 50 ha during dry periods ensures crop survival and stability, enhancing food security for the farmers.

5. Livelihood Enhancement Through Self - Employment

Sponsor: Charity for Goodness Foundation

Location: Gajapati district

Duration: October 2023 to September 2024

Major Achievements: The project aims to enhance the overall living standard through improved agriculture, off - farm livelihoods, NRM and enterprise development. So far, two SHGs have been supported with fish cultivation and 19 households with vegetable cultivation.

C. Agri - horti - forestry (*Wadi*)

Agri - horti - forestry (*Wadi*) is an integrated farming system that combines agriculture, horticulture and forestry to enhance rural livelihoods and environmental sustainability. In this model, farmers cultivate a mix of crops, fruit trees and timber species on the same plot of land. This diversification provides multiple income sources, improves food security and promotes ecological balance. The *Wadi* system helps in soil conservation, efficient water use and resilience against climate change, ultimately leading to increased productivity and prosperity for smallholder farmers.

1. Focused Rural Development Programme (FRDP)

Major Achievements: The project spans three blocks in Sambalpur district, emphasizing the water - energy nexus to boost productivity in agriculture and related vocations. By focusing on resilient, low - gestation, high - return crops, the initiative ensures a year - round income stream from underutilized lands. So far, 450 such *Wadis* have been established under the project. 200 plots of millet intercropping were undertaken by the farmers.

Harvesting Hope: Cultivating Prosperity from Barren Soil

Shri. Bisikesan Pradhan, a dedicated farmer from Terbeda village of Naktideul block in Sambalpur, Odisha, supports his family of six through sustainable agriculture on 1.6 ha of land. Despite having only primary education, Bisikesan cultivates paddy and vegetables with remarkable efficiency. In 2022, he associated with BAIF's Focused Rural Development Programme supported by HDFC Bank, implementing the '*Wadi model*' on 0.2 ha of previously barren land. He planted 50 langda variety mango saplings and employed strategic intercropping with watermelon. This approach yielded 100 kg of watermelon, generating Rs. 50,000, due to efficient market linkage and value chain optimizations, with the help of his relatives. Bisikesan's agroecological success not only brought financial stability but also ensured diversified cropping, showcasing the strength of integrated farming systems and rural development initiatives.



2. Livelihood Enhancement through Orchard Plantation

Sponsor: Deputy Director of Horticulture (DDH) - Keonjhar

Location: Champua block, Keonjhar district of Odisha

Duration: September 2023 to July 2027

Major Achievements: The project aims to cover 300 ha of land under orchard plantation. During the year, Awareness meetings in 52 villages introduced the benefits, selection and management of orchards. Trainings, exposure visits, orientations and Village Development Community (VDCs) empowered farmers, improving agricultural practices and supporting community development. So far, 50 families have been selected for orchard plantation through this programme.



3. Comprehensive Community Development Programme (CCDP) - *Utthan*

Major Achievements: Under the project, inputs and technical support have been provided to farmers for promoting food crops, vegetable crops and diversification. 244 *Wadis* have been established covering more than 48.8 ha of land until now. Within five years of the implementation of the project, the plantations are now bearing fruits. The participants were also practicing intercropping in their *Wadi* with vegetable crops to gain additional income.

FRUITING OF HOPES

- ❖ Mrs. Rajkumari Pradhan, aged 50, joined BAIF's Agri-horti-forestry Wadi programme in 2019 in Lakhanpur village, Jharsuguda dist., supported by Mahanadi Coalfields Ltd.
- ❖ She planted 56 mango trees and intercropped with vegetables using organic methods on 0.33 ha, facilitated by the project which provided seeds and a farm pond for irrigation.
- ❖ With family involvement, they earned Rs. 65,650 from the Kharif season and expect over Rs. 1,85,250 by the end of the Rabi season in 2024.
- ❖ Mrs. Pradhan credits the programme for providing a sustainable livelihood and improving their quality of life significantly.
- ❖ This initiative highlights the transformative impact of agricultural support programmes in empowering rural families economically and promoting sustainable practices.



Increase cropping intensity up to 150%

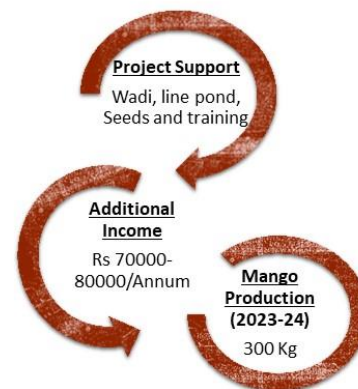
Harvested 16.5 tons of mango in 1st Year



48.8 ha under-utilised land brought under cultivation



Additional income of Rs. 35000/year



Major Outcomes



Additional income of approximately ₹35,000 per year for participant families on an average through intercropping.

Harvested 16.5 tons of mangoes in the year 2023; brought 48.8 hectares of under-utilized land under cultivation.

Expected to harvest 20 tons of mangoes in 2024, worth over ₹8 lakh.

D. Rural Non - Farm Livelihood

Rural non - farm sector - based livelihoods encompass economic activities in rural areas beyond agriculture, forestry and fisheries, crucial for economic diversification, poverty reduction and rural development. By offering alternative income sources, livelihood opportunities, the non - farm sector improves living standards and reduces dependency on agriculture. The specific projects with RNFS component and their contribution to the RNF Sector are detailed below.



1. SAFAL, CCDP and FRDP

Major Achievements: Under the Rural Non - Farm Project (RNFP), significant strides have been made in promoting diverse livelihoods, notably mushroom farming at both individual and group levels and backyard poultry in a semi - free - range model, adopted by 499 households. These initiatives have markedly enhanced income stability and reduced reliance on agriculture, contributing to improved living standards.



Paddy Processing Unit



Tiffin Centre



Wheat Mill



Farm Equipment Bank



Paper Plate Making Unit

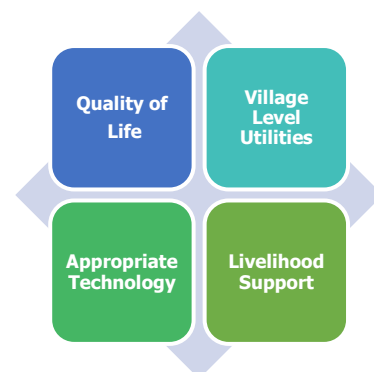
Appropriate technology for enhanced livelihood

Maa Tarini SHG operates from Rambadmal village, in Sambalpur district, Odisha. Despite its agricultural richness, challenges like the absence of modern machinery and high rental costs hindered farming progress in this village. With the support of BAIF Odisha and HDFC Bank's Focused Rural Development Programme, the SHG established the Farm Equipment Bank, aiming to make vital farming tools accessible and affordable for all villagers reducing the dependence on manual labour. Equipment like a power tiller and power sprayer, significantly enhanced the agricultural productivity while reducing the financial burden on farmers. This initiative not only empowered the SHG but also generated substantial revenue of Rs. 40,000, which fuelled community development initiatives. The success of the Tarini SHG Farm Equipment Bank showcases the power of technology, fostering self-reliance and unity in Rambadmal, promising a brighter future for all.



E. Samruddha Gram (Holistic Village Development)

The concept of “*Samruddha Gram*” (Prosperous village or Model village) aims at providing sustainable livelihoods to the target families as well as improving their quality of life through household and village - level initiatives that improve the overall living standards in the village. The thematic areas of water management and improved agriculture primarily focussed on livelihoods and the initiatives planned for developing a model village were health, sanitation, empowerment, enterprise development, clean energy, education, functional literacy, digitalization and common utilities which are aligned with the national priorities. These activities are undertaken in the CCDP - *Utthan* project, FRDP - *Samudayik Utthan* and Livelihood Enhancement through self - employment programme. The project has successfully initiated the creation of a “*Samrudha Gram*” under different programmes. This initiative aims to transform rural communities by implementing various interventions, including kitchen gardens, backyard poultry, *Wadi* (orchard development), well repair and renovation, farm ponds, nurseries and local enterprises. These efforts collectively provide sustainable livelihoods and enhanced access to resources for farmers in the area, contributing to overall rural prosperity.



2. CLIMATE ACTION PROGRAMME

The Climate Action Programme is designed to address the urgent need for sustainable solutions to combat climate change. This initiative focuses on reducing greenhouse gas emissions, promoting renewable energy and enhancing community resilience through education and innovative practices. By engaging individuals, businesses and governments in proactive measures, the programme aims to foster a healthier planet and ensure a sustainable future for generations to come. Specific interventions and packages promoted are highlighted and explained in the following sections.

A. Climate Change Adaptation and Mitigation Strategies

1. CCDP, HCDP, SAFAL, FRDP



Major Achievements: The *Wadi* programmes integrates fruit trees with crops to enhance biodiversity, improve soil health and provide multiple income sources for farmers. This sustainable agroforestry approach sequesters carbon, ensures food security and boosts resilience to climate change. Community involvement and training empower farmers to adopt eco - friendly practices, promoting environmental sustainability and socio - economic development. High

- capacity solar pumps (5 hp) with conveyance are installed for a group of farmers (8 to 10) for *Wadi* and other agricultural lands. Individual solar pumping of approximately 1 hp capacity is also promoted with several farmers resulting in a total green energy generation of approximately 58,188 kWh. Solar insect traps have been introduced for effective pest control with reduced use of chemicals. *Wadis* contribute positively to carbon sequestration at the rate of ~ 24 tonnes/ ha.

Cultivating seasonal and perennial fodder enhances ecosystem resilience, reduces erosion and sequesters carbon. These practices bolster agricultural productivity, livelihoods and environmental sustainability amidst climate challenges. Total 294 plots fodder demonstration have been covered so far.

The Sex - Sorted semen technology reduces GHG emissions by optimizing herd size, leading to less dung production, rumination and thus lower methane emissions. This technology contributes to dairy sector by rapid herd multiplication of female calves.

Over 500 micro irrigation systems have been installed, which reduces water usage and enhances crop productivity by delivering precise amounts of water directly to plant roots. This technology minimizes evaporation and runoff, conserving water resources and promoting sustainable agricultural practices and climate resilience.

Regular Semen		4 Cows Producing 1 Calf/Year		Sexed Semen	
Heifer Calf	Bull Calf	Heifer Calf	Bull Calf	Heifer Calf	Bull Calf
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100	100	100	100	100	100

B. Climate - Smart Agriculture

1. CCDP, FRDP, HCDP

- Trellis farming optimizes land and water use with vertical cultivation, lowering carbon footprint and fostering sustainability. It reduces synthetic inputs, preserving ecological balance and biodiversity.
- Vermicompost enriches soil fertility and water retention, while curbing synthetic fertilizers and landfill waste. Distribution of 720 vermi beds promotes sustainable agriculture.
- Nursery rearing conserves plant diversity and genetic resources by providing



controlled conditions for seedlings to adapt to climate change.

- Paddy cultivation curtails greenhouse gas emissions through water - efficient methods like alternate wetting and drying. Practices such as organic matter incorporation and crop rotation enhance soil fertility and resilience.
- Cactus cladodes demonstrate remarkable resilience in arid conditions, serving as valuable food and forage resources. Their water - efficient growth, carbon sequestration capabilities and ability to thrive in extreme climates make them essential for sustainable land management and combating climate change. To harness these benefits, cactus cladode plots have been established across different project area.
- 11 polyhouses have been established to enhance productivity and ensure efficient supply chains, enabling year - round cultivation of high - value crops and improving farmers' income and market access.



C. Agro - Biodiversity Conservation

1. Use & Conservation of Agrobiodiversity for Food and Nutrition Project

Sponsor: Bioversity International

Location: Hatibari block of Sambalpur district

Duration: July 2022 to June 2024

Major Achievements:

Initiating the community lead actions for in - situ or on farm conservation and management of diverse indigenous crops cultivators as well as establishing a community management seed bank network programme in remote tribal parts of Odisha. Through indepth field surveys and participatory approaches, Mother Trials and Baby Trials were established, engaging interested farmers and identifying field plots. Key outcomes included the selection and purification of elite germplasms, participatory seed selection and identification of suitable crop varieties. Post - harvest, seeds were multiplied for future use. 27 traditional recipes were documented and 35 seed savers registered. In situ conservation included seed production on 45 fields (7.8 hectares) and 100 nutrition garden plots with indigenous seeds. The Burda village seed bank has a collection of 68 indigenous varieties across 21 crops. Additionally, a food festival in Sambalpur, organised by *Bittibhumi Seva Sansthan*, showcased the impact of the project.



D. Renewable Energy

1. CCDP, FRDP, HCDP and SAFAL



Renewable energy is one of the most efficient forms of climate change mitigation. Solar power has its benefits and immediate application in the rural context for energy applications in lifting. Solar lift irrigation is demonstrated in fields in western parts of Odisha on both family and group levels.

High - capacity solar pumps (5 hp) with conveyance are installed for a group of farmers (8 to 10) for *Wadi* and other agricultural lands.

Individual solar pumping of approximately 5 hp capacity is also promoted with several farmers. A total green

energy generation of approximately 58,188 kWh annually is estimated with all installations combined. Looking at the significance and the impact of the activity along with its benefits, incorporation of renewable energy applications in other projects has also started growing.

The (Integrated Renewable Energy and Sustainable Agriculture) IRESA model integrates renewable energy and sustainable agriculture in five villages of Kujang Block, Jagatsinghpur District. Key components include solar - powered irrigation, bioenergy production and organic farming to boost productivity, reduce carbon footprints and improve local livelihoods. So far 5 units have been installed. Seven solar - powered street lights have been successfully installed in the project area, promoting the use of renewable energy and enhancing community illumination.



3. CROSS CUTTING PROGRAMMES

A. Health and Nutrition

The emphasis under this theme is to synergise efforts to improve overall living standard in each of the villages through inputs in health, hygiene, nutrition, education, literacy, knowledge and awareness. Quality of life activities complement the livelihood generation initiatives and multiply the impact through progression to overall development and well - being.



1. PAANI

Sponsor: Jindal India Thermal Power Ltd (JITPL)

Location: Kaniha block, Angul district

Duration: January 2023 to March 2025

Major Achievements: The project has successfully established 20 solar - powered drinking water systems covering 980 households with the objective of ensuring access to continuous supply of clean and safe drinking water to the communities from all sections of the society. These water filters ensure clean water.

2. Livelihood Enhancement through self - employment

Major Achievements: The project focuses on skill development and capacity building within the community. Training for skill development was conducted through the Rural Development and Self Employment Training Institute (RSETI) of the Government of Odisha, specifically for mushroom cultivation.

3. CCDP - Utthan

Major Achievements: To address drinking water quality and access issues, hand pumps are being repaired with platforms and soak pits, benefiting 1,763 households. Clean drinking water was supplied to 292 households. Kitchen gardens are being established to strengthen household nutrition intake, with nutrition charts provided for easy reference and understanding, benefiting 2,779 individuals. Additionally, three solar - powered drinking water systems have been installed.



Nutritional charts

B. Women - centric Development

1. CCDP, FRDP, SAFAL

To address the issues on ignorance of menstrual health and hygiene among women, extensive awareness sessions are being conducted. While health camps were conducted, a model of community level health resource persons was deployed for providing basic diagnostic services. 4,371 households have been provided with preventive health care. So far, 16 SHGs of 10 members each on an average have been covered under enterprise development initiative. Two producers' groups of 25 members each have been covered under this enterprise.

Major Outcomes



Total 4,371 women have been benefitted.

Outreach: 56 villages

2,779 kitchen gardens established.



C. Capacity Building

Capacity building focuses on information dissemination, knowledge sharing - learning and empowerment of the community to be self - reliant. Various activities like training, exposures, demonstrations, documentation and camps were undertaken. It also helps in keeping the team apprised of emerging developments.



900 Youth Trained



**980 E-Learning
(No. of persons)**



105 Dairy Trainings



**56 Animal Health
Camps**



28 Exposure Visits



122 Wall Paintings



Kitchen Garden



Exposure Visit



Wall Painting



Wadi aftercare



Jackfruit Training



Human Health Camp

Capacity Building of Team

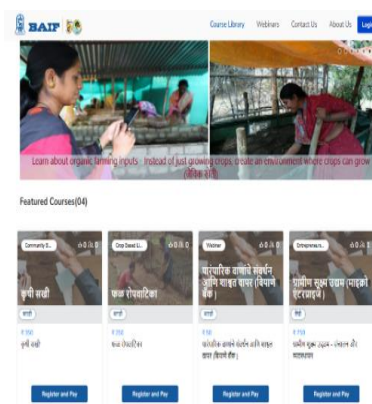
Theme	Sessions (No.)	Participants (No.)
Agriculture	05	15
Finance	02	28
HR	01	20
Information and Communication Technology	08	63
Livestock	02	63
Quality of life	01	05
Natural Resource Management	02	34
Programme Management	01	01
Gender Sensitization Workshop	01	30
Orientation Programme	13	26

D. Educational Initiatives

1. CCDP, FRDP, SAFAL, Livestock Development Programme, Godaan

i. Learning Management System (LMS)

The Learning Management System of BAIF provides short and long duration courses in agriculture, livestock, natural resource management, community-based development, enterprise development for capacity building of farmers along with webinars. 980 farmers were covered through this platform to develop their skills for livelihoods enhancement. The courses offered covered multiple domains and hence are applicable for usage and benefit across multiple projects.



ii. School Infrastructure support

Fifteen government schools across four districts received support in the form of indoor and outdoor sports materials, including footballs, badminton sets, cricket equipment, carom boards, skipping ropes, volleyballs and ring balls. Additionally, study materials such as whiteboards, dusters, markers and various books were provided to develop school libraries. The library books included general knowledge, essay writing, inspiring stories of Mahatma Gandhi and Dr. A.P.J. Abdul Kalam, patriotic tales and English and Odia grammar books, all aimed at enhancing students' educational experience. Dustbins, tables, whiteboards, sports materials and wall painting services have been provided to enhance the facilities. These additions aim to promote cleanliness, organization and an engaging learning environment.



D. ICT for Development

1. CCDP, SAFAL, FRDP, HCDP, Livestock Development Programme

i. Digitalisation

The complete record of Artificial Inseminations conducted in the field is entered in a mobile application - based database management system specifically developed for the purpose. The application is useful for maintaining a record of artificial inseminations, pregnancy diagnosis, calvings and monitoring.



ii. Geo Tagging

It is a simple authentic document to collect data from the field and to preserve it for future reference. In the field, a photograph of the asset along with geo - location which includes latitude and longitude, is being collected. This practice helps in maintaining updated record, monitoring and verification as and when required. It also helps in avoiding data duplication.

4. RESEARCH FOR DEVELOPMENT

A study conducted in Summerbaga village, Jharsuguda district, Odisha, investigated the effects of nano urea, potassium silicate and micronutrients on paddy growth and yield. The study aimed to assess their impact on various parameters such as tiller and productive tiller numbers, panicle length, grains per panicle, filled grains per panicle, grain filling percentage and overall yield during the *Kharif* season. Application methods included nano urea at specific stages, micronutrients as a basal dose and potassium silicate at tillering and panicle initiation stages. The results highlight that the recommended combination of nitrogen fertilizer via urea with potassium silicate and micronutrients (treatment T8) proved essential for achieving optimal growth and yield metrics in paddy cultivation under specified conditions in Jharsuguda.



1

2



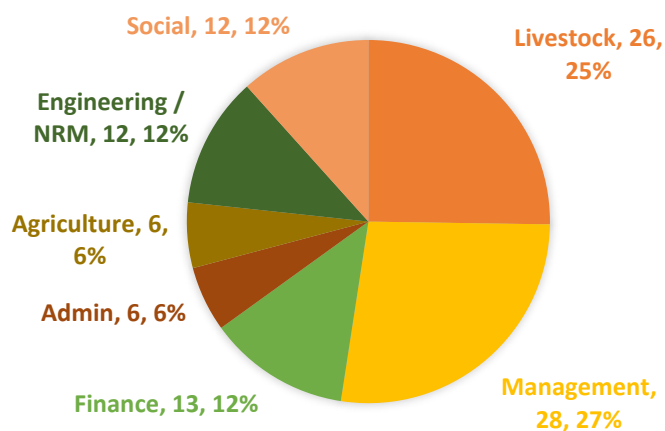
A research study was conducted in Jharsuguda district, Odisha, to assess the performance of grafted brinjal with the assistance of thematic experts. The objectives included studying the growth and yield of grafted brinjal, monitoring pests and diseases, evaluating graft longevity and analyzing the economic aspects of brinjal cultivation. Major observations recorded during the study encompassed plant height, number of branches, frequency of harvests, incidence of pests and diseases, fruit yield per plant per picking in kilograms, total fruit yield in tons/ha and economic metrics such as Net Market Return (NMR) and Benefit-Cost Ratio (BC).

Table 1 Performance of non-grafted and grafted brinjal

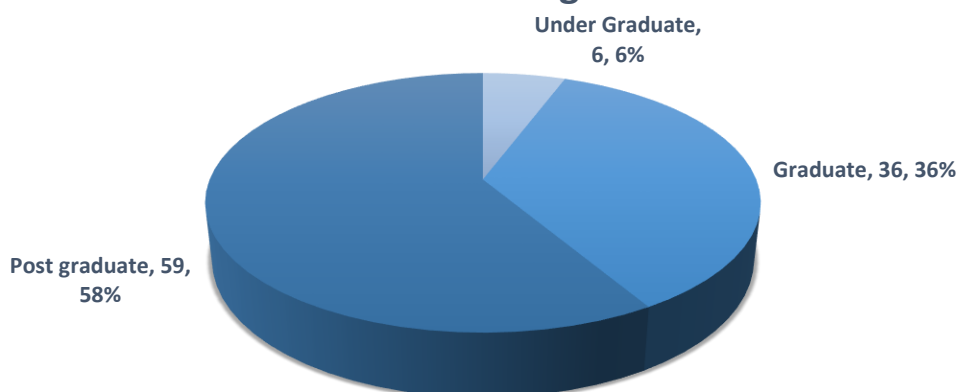
Treatment	Plant Height (cm)	No. of branches	No. of pickings	Total fruit Yield (ton/ha)	The total fruit yield of T ₂ -grafted seedlings is 58% higher.
T ₁ – non-grafted seedlings	140.22	12	22	53.2	
T ₂ - grafted seedlings	149.90	16	22	83.9	

5. HUMAN RESOURCES

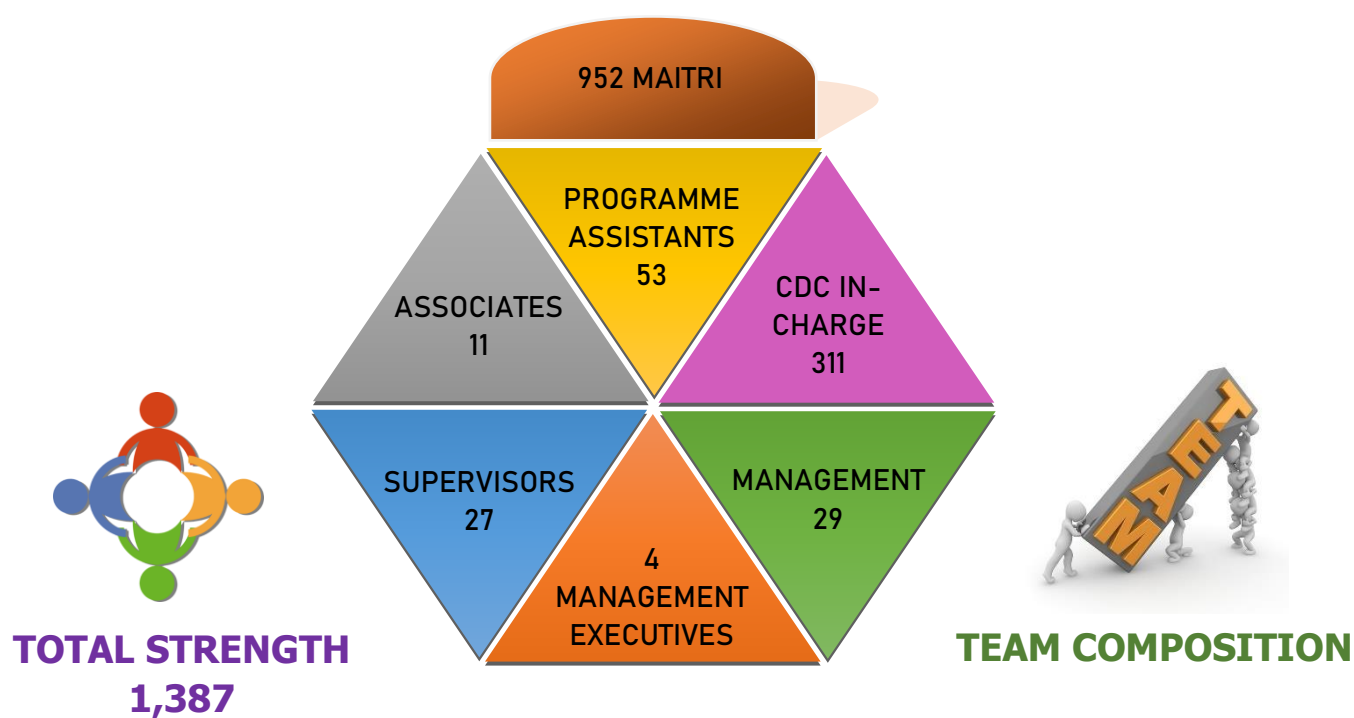
FUNCTIONAL EXPERTISE*



Educational Background*



*Excludes Cattle Development Centre (CDC I/Cs)



HIGHLIGHTS

BAIF's Participation in COP28

As a UNFCCC - accredited Observer Organization at COP28, a four - member delegation from BAIF – Dr. Jayant Khadse, Dr. Rajashree Joshi, Mr. Rakesh Warriar and Mr. Waman Kulkarni, attended the summit at Dubai during 02 – 10 December 2023. They participated in multiple events in the Blue and Green Zones as invited speakers, panellists along with meetings with international research institutions, global agencies and thematic coalitions. The programmes covering livestock - based livelihoods and enteric methane emissions reduction, sustainable natural resources management, land degradation neutrality, soil carbon enrichment, climate resilient dry land agriculture, participatory agro - biodiversity conservation, nature - based solutions, renewable energy, circular economy and gender inclusion presented in multiple events were appreciated by national and global entities. Replicating and scaling up successful models and climate smart practices with community - led approaches for resilience building in line with the Indian philosophy of “*Vasudaiva Kutumbakam*” received encouraging response at the forum. The participating delegation could derive strategic insights from global perspectives while learning about emerging paradigms and innovations. Interactions also explored programme expansion and forging partnerships in climate actions. Dr. Bharat Kakade, President, BAIF, virtually addressed the High - level Segment of 4 per 1000 Forum of Partners on “Strategy and Local Actions by BAIF” in the context of healthy soils for a healthy planet and presented the importance of circularity and integrating nature - based solutions in food production systems.



Gopal Ratna Award 2023



Shri Anil Pradhan, from Deuria Jharana village in Odisha, holds a B.A. in Education and hails from a farming family. He began his career in agriculture and livestock in 2008 after attending AI training under OMFED. Encouraged by his brother, Anil joined BAIF as an AI technician in 2012 and has been a key part of their livestock programme in Angul district ever since. For the past 11 years, Anil has dedicated himself to artificial insemination and allied services, significantly impacting agricultural and livestock development. He has performed over 2,000 sorted semen AIs with a 90% probability of female calves and more than 10,000 regular AIs with a 40% conception rate. Additionally, he has completed over 1,200 AIs in goats. Anil's proactive role extends to leading vaccination programmes, health camps and training initiatives. His meticulous record - keeping ensures organised data management and timely follow - up. His efforts have increased milk production by 50 - 60%, benefiting 2,500 - 3,000 households in 14 - 16 villages. His story epitomizes the transformative impact of dedication and passion in shaping sustainable agricultural practices and fostering community development, empowering villagers economically while enhancing livestock productivity. Anil has bagged the Gopal Ratna Award 2023 under the Best AIT category (2nd position) and received the honour from Shri. Parshottam Rupala, the hon. minister for Dairying, Fisheries and Animal Husbandry, Government of India, on November 26th, 2023.

6. PARTNERSHIPS

SPONSORS

Odisha Livestock Resources Development Society

District Mineral Foundation

ArcelorMittal Nippon Steel India Ltd

Mahanadi Coalfields Ltd.

Adani Foundation

Bill & Melinda Gates Foundation

JSW Foundation

Atul Foundation

HDFC Bank

Charity for Goodness Foundation

Jindal India Thermal Power Ltd.
(JITPL)

NABARD

Aditya Birla Group

COVERAGE

Angul, Balangir, Bargarh, Boudh, Cuttack,
Jagatsinghpur, Jajpur, Kalahandi, Kendrapara,
Koraput, Nabrangpur, Nuapada, Puri, Sambalpur,
Subarnapur
Keonjhar

Jagatsinghpur

Angul, Jharsuguda, Sambalpur, Sundargarh

Bhadrak district, Odisha and Raipur and
Raigarh district, Chhattisgarh

Angul, Balangir, Bargarh,
Sambalpur & Sonepur

Keonjhar, Sundargarh

Balangir

Sambalpur

Gajapati

Angul

Ganjam

Sambalpur

PROGRAMMES

Livestock Development: Breeding

Orchard plantation

Holistic Development

Holistic Development

Livestock Development: Integrated
services

Livestock Development: Characterization and
performance recording

Water-Centric Livelihoods

Livestock development: integrated
services

Agri-horti-forestry (*Wadi*)

Skill Training

Health and Sanitation

Livestock Development: Integrated Services

Holistic Development



A MoU was signed on September 1, 2024 with ArcelorMittal – Nippon Steel India Ltd. for augmenting livelihoods through sustainable agriculture practices.



October 2023: Regional Director – East was invited as a Panel Member to speak on the constraints and role of development organizations in IPM adoption at the National Workshop on Integrated Pest Management (IPM) organized by ICAR – National Rice Research Institute, Cuttack, Odisha.

November 2023: Regional Director – East moderated a session “Mainstreaming De-centralized Renewable Energy for India’s Sustainable Future” at the workshop on “Climate Proofing India: Replicated at Scale, Sustainably” organized by Indian Network on Ethics & Climate Change (INECC) in Delhi.



November 2023: Regional Director – East represented BAIF at the “Natural Farming Roundtable – Policy Landscape for Cultivating a Vibrant Ecosystem” organized by Centre for Sustainable Agriculture & IndiaSpend at Delhi.

A MoU was signed with Directorate of AH&VS, Govt. of Odisha for supply of semen for artificial insemination in goats on November 16, 2023.



January 2024: Presenting BAIF programmes to Mr. Ritesh Sinha, Vice President and Head Projects, CSR, HDFC Bank at the Regional Partners’ Meet- East.

An initiative launched with NABARD for Dairy Development Programme in Ganjam district, Odisha.



A programme launched with Hindalco Industries Ltd. (Aditya Birla Group) for Holistic Programme in Sambalpur district, Odisha

BAIF Programme Coverage



Visit of Dignitaries



December 2023

Mr. Swaroop Sharma, State CSR Manager and Mr. Chandan Nayak, CSR Manager, HDFC Bank Ltd. at Jujomura and Naktideul clusters, Sambalpur



August 2023

Mr. Chandra Shekhar Gowda - Chief Operating Officer (COO), Adani Foundation visited Raigarh, Chhattisgarh

APPEAL

BAIF has been committed to sustainable rural development for over five decades of its operations. BAIF's valuable contributions to improving livelihoods of rural households have been recognised in various national and international platforms. Our innovative models and participatory community empowerment approaches have shown pathways to holistic development which have been adopted outside the Organisation as well as for replication. The hallmark of these models is integration of livelihood and quality of life resulting in enhanced living standards.

BAIF is recognised by the Ministry of Finance, Government of India u/s 35 (1) (ii) of the Income Tax Act 1961 for Scientific Research. Contributions made to BAIF for carrying out research activities will be eligible for deduction under income tax. BAIF Livelihoods is a Charitable Institution under the provisions of Section 12A (2) of the Income Tax Act, 1961. Donations made to BAIF Livelihoods will be eligible for benefit of deduction under Section 80G of the Income Tax Act, 1961.

We appeal to the donors to contribute to the maximum extent possible for the noble cause of empowering rural communities and in the process, building a self-reliant, progressive and prosperous India.

ACKNOWLEDGEMENTS

The dedication and perseverance of team members – our core strength have been the cornerstone of BAIF's impactful programmes. The generous support from our esteemed partners and sponsors is gratefully acknowledged which has enabled us to enhance our outreach and impact. The valuable guidance from senior management provides deep insights into both strategic and operational aspects of the programme. Last but not the least, the cooperation and trust from the communities we work with is gratefully acknowledged without which the programmes would have just remained as activities.



March 2024

Shri. G. Mohan Kumar, Member - Regional Advisory Board, East Region, visited Odisha state programmes

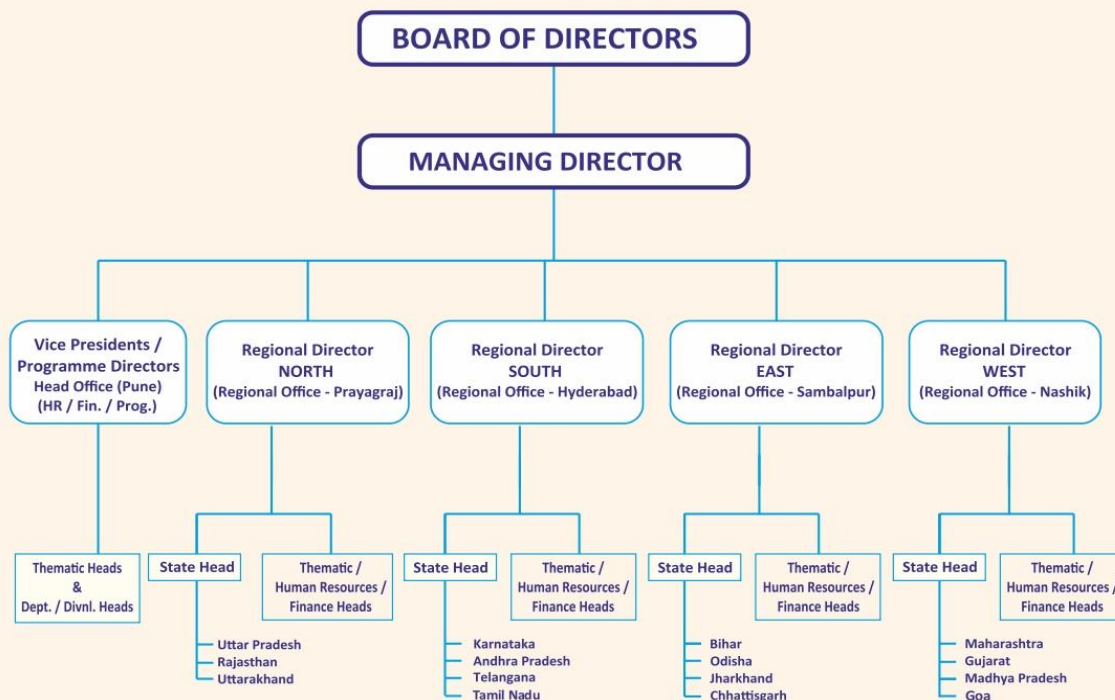
ANNUAL REPORT DESIGN

Ms. Prakriti Rani, Sr. Project Officer
Ms. Purna Sinha, Project Officer

BAIF LIVELIHOODS

[BAIF Institute for Sustainable Livelihoods and Development (BISLD)]

Organogram



MANAGEMENT COMMITTEE- BAIF LIVELIHOODS ODISHA

- **Mr. Rakesh Warriar**
Chairperson
- **Mr. Sandip Kakade**
Secretary
- **Mr. Acchelal Yadav**
(till Dec. 2023)
Member
- **Mr. Vivek Singh**
Member
- **Mr. Bipin Sahu**
Member
- **Ms. Manisha Sahu**
Member
- **Invitee**
- **Invitee**

INTERNAL COMMITTEE- BAIF LIVELIHOODS ODISHA

- **Ms. Manisha Sahu**
Presiding Officer
- **Ms. Prakriti Rani**
Secretary
- **Ms. Nitika Mishra**
Member
- **Ms. Nanda Munda**
Member
- **Mr. Mufti M. Khan**
Member
- **Ms. Sunita Ekka**
Member
- **Mr. Umesh Meher**
Member
- **Mr. A. Chandrashekhar Rao**
Member
- **Ms. Bani Mahapatra**
External Expert

INTERNAL AUDITOR

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Sambalpur, Odisha

STATUTORY AUDITOR

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Chartered Accountants
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Back cover photographs (Clockwise from top left): Smt. Malati Khatua from Dhamra with project progeny; Shri. Sanika Munda from Jujomura on his farm, Shri. Pramod Gupta on his trellis farm; Promotion of improved agriculture; Smt. Lalita Kerketta from Naktideul on her millet farm.



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