

# BAIF LIVELIHOODS – ODISHA AND CHHATTISGARH

ANNUAL REPORT 2022-2023



## BAIF Institute for Sustainable Livelihoods and Development (BISLD)



## BAIF GROUP

- 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).



Our inspiration...

Dr. Manibhai Desai  
Founder, BAIF

To know more about our Founder and BAIF programmes, please visit [www.baif.org.in](http://www.baif.org.in)

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# CONTENTS

*Message from Regional Director*

*Overview*

*2022-2023 at a Glance*

❖ <b>1. Livelihood Programmes</b> .....	1
• A. Livestock-based Livelihoods.....	1-6
• B. Water-centric Livelihoods.....	6-9
• C. Agri-horti-forestry ( <i>Wadi</i> ).....	9-11
• D. Rural Non-Farm Sector-based Livelihoods.....	11
• E. <i>Samruddha Gram</i> (Holistic Village Development).....	11-12
❖ <b>2. Climate Action Programmes</b> .....	13
• A. Climate Change Adaptation and Mitigation Strategies.....	13
• B. Climate Smart Agriculture.....	13-14
• C. Agro-Biodiversity Conservation.....	14-15
• D. Renewable Energy.....	15
❖ <b>3. Cross Cutting Programmes</b> .....	15
• A. Health and Nutrition.....	15-16
• B. Women-centric Development.....	16-17
• C. Capacity Building.....	17-18
• D. Educational Initiatives.....	18
• E. ICT for Development.....	19
❖ <b>4. Research for Development</b> .....	19-20
❖ <b>6. Human Resources</b> .....	20-21
❖ <b>7. Partnerships</b> .....	22

## MESSAGE FROM REGIONAL DIRECTOR

I have immense pleasure in presenting the progress and highlights of Odisha and Chhattisgarh programmes during the year 2022 – 23.



BAIF's Odisha programme is being implemented across 20 of the 30 districts covering about 1 lac rural households including the aspirational districts of Balangir, Kalahandi, Koraput, Nabrangpur and Nuapada. The year saw the expansion of the programme to 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), ACC Trust and Atul Foundation is valued and gratefully acknowledged. It resonates deeply with the noble intents of the welfare of the society and progress of the nation. The year embarked on new partnerships with JITPL, ACC Trust and Atul Foundation. Multiple initiatives are being undertaken with support from the Government of Odisha for strengthening livestock development in the State.

The MoU signing of the project on training and deployment of 1,500 youths as Multi-purpose AI Technicians in Rural India (MAITRI) was presided over by Shri. Naveen Patnaik, Hon'ble Chief Minister, Odisha.

It is commendable that Shri. Gopal Rana, Cattle Development Centre In-Charge from Balangir district, was awarded the prestigious National *Gopal Ratna* Award 2022 of the Government of India for being the outstanding AI Technician in the country.

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 doubling farmer income and enhancing living standards is reinforced by the targetted outreach of the weaker sections and the un-served. Along with sustainability, renewed focus is laid on self-reliance in consonance with the Nation's mission of *Atmanirbhar 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

The livelihoods enhancement programme was implemented in 20 out of the total 30 districts of Odisha including the aspirational districts of Balangir, Kalahandi, Koraput, Nabarangpur and Nuapada. Building on the success of the Integrated Livestock Development Programme (*Kalyani* Programme) and in response to the demand for efficient service delivery, a MoU was signed between BAIF and Odisha Livestock Resources Development Society

(OLRDS) for training youth and scaling up bovine breeding services by establishing the “Multipurpose AI Technicians in Rural India (MAITRI)” scheme in all the 30 districts in the state. 1,500 local youth have been identified and so far, 800 youth have completed their training in doorstep delivery service. The livestock development programme received a boost with Shri. Gopal Rana, Centre-in-Charge in Balangir district, being awarded the National Gopal Ratna award 2022 in the category of Best Artificial Insemination Technician (AIT). This Award is a testimony of the efficacy of the robust model pioneered by BAIF, integrating quality doorstep livestock development services with skilled local self-employment and a proud moment too as there are only three ranks in this category at the All-India level. 28 milch cows were distributed to 125 tribal families under the Godaan Project as an additional source of livelihood.

Farm-based activities covered 5,200 households under the *Utthan* – Comprehensive Community Development Programme apart from health awareness activities and innovative cost-cutting interventions such as vermicompost and gravity drip irrigation being extended to 700 households. The *Samudayik Utthan* - Focused Rural Development Programme in 80 villages of Sambalpur district ensured livelihood security through diversified and sustainable income through agriculture and enterprise development. 200 horticulture plantations were established and 156 farm ponds were constructed, resulting in a water harvesting potential of 36 TCM.

The livelihood development model is being implemented in 18 villages of Joda block of Keonjhar district. Livelihood support is also being extended through skill-based training and sustained livelihood development in one village of Gajapati district. Women and adolescent girls participated in various development initiatives.

BAIF launched the Livestock Programme in Chhattisgarh on October 21, 2022 at Tilda block of Raipur district with a target of 800 households from 15 villages and the Cattle Development Centre at Chhote Bhandar in Pusor block of Raigarh district to cater to 1,500 households from 15 villages. The water-centric programmes in Chilathi and Jamul blocks of Bilaspur and Durg, Chhattisgarh, benefited more than 1,000 households. A 20 hp solar-based irrigation system was handed over to the community, benefitting 64 households with expanded irrigation coverage up to 20 ha.

**Sandip Kakade**

**State Head**

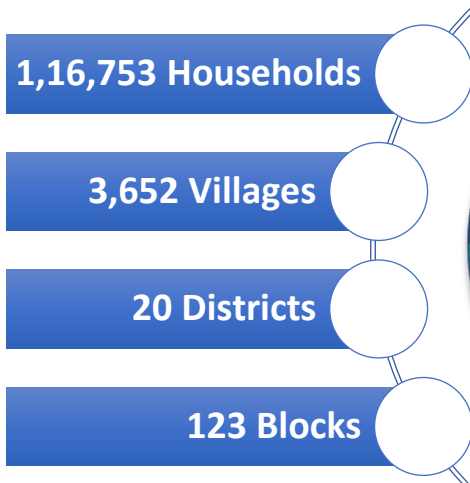
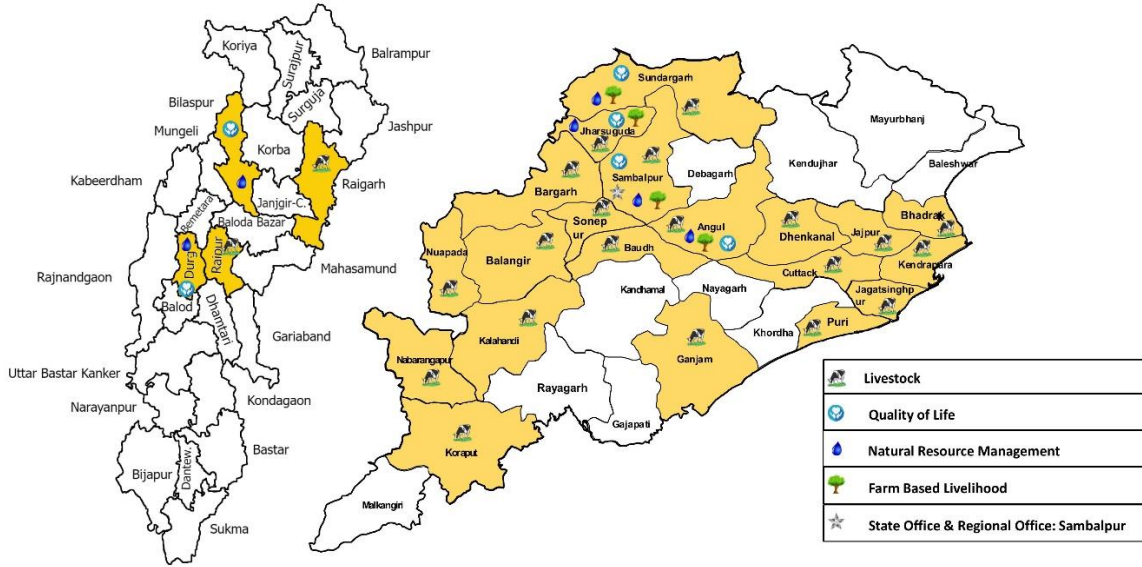
**BAIF Livelihoods – Odisha & Chhattisgarh**



# 2022-2023 at a Glance

## Chhattisgarh

## Odisha



**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**

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

**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.”*

# PROGRAMME HIGHLIGHTS

## 1. LIVELIHOOD PROGRAMMES

### A. Livestock-based Livelihoods

Livestock-based livelihoods play a crucial role in rural communities, providing income and food security. They encompass various activities such as rearing cattle, buffaloes, goats and poultry. These livelihoods not only contribute to household income but also serve as a source of employment and economic development. Integrated approaches that focus on breeding, nutrition, health and management are implemented to enhance productivity and sustainability. Livestock-based livelihood programmes often provide training, access to veterinary services and support for market linkages, empowering individuals and communities to thrive. Door-step services are provided through the network of Livestock / Cattle Development Centres (CDCs) managed by trained para-veterinarians. By promoting the development of livestock-based livelihoods, rural areas can achieve improved livelihoods, poverty reduction and overall rural development. 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

**Location:** All 30 districts of Odisha

**Duration:** June 2022 to May 2024

**Key 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 1,104 candidates and 60 days field training of 800 candidates have been carried out. 1,456 MAITRI candidates have been selected out of 1,500 post of MAITRI candidates from all the districts. Training sessions were undertaken in accredited institutes – Animal Husbandry Staff Training Institute & Extension Training Centre (AHDSTI & ETC), Bhanjanagar and Livestock Inspector Training Centre (LITC).

#### 2. Artificial Insemination Programme (AIP)

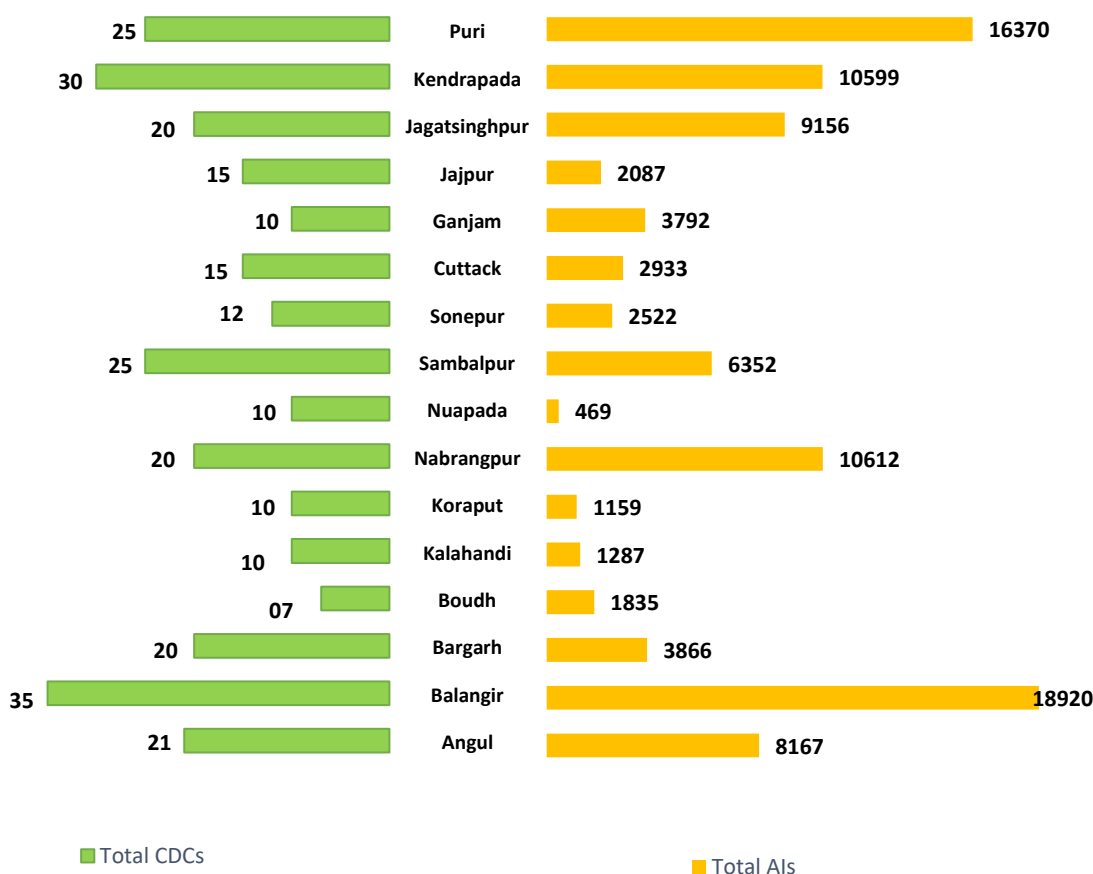
**Sponsor:** Odisha Livestock Resources Development Society (OLRDS)

**Location:** 16 districts (Angul, Balangir, Bargarh, Boudh, Cuttack, Ganjam, Jagatsinghpur, Jajpur, Kalahandi, Kendrapara, Koraput, Nabrangpur, Nuapada, Puri, Sambalpur and Subarnapur)

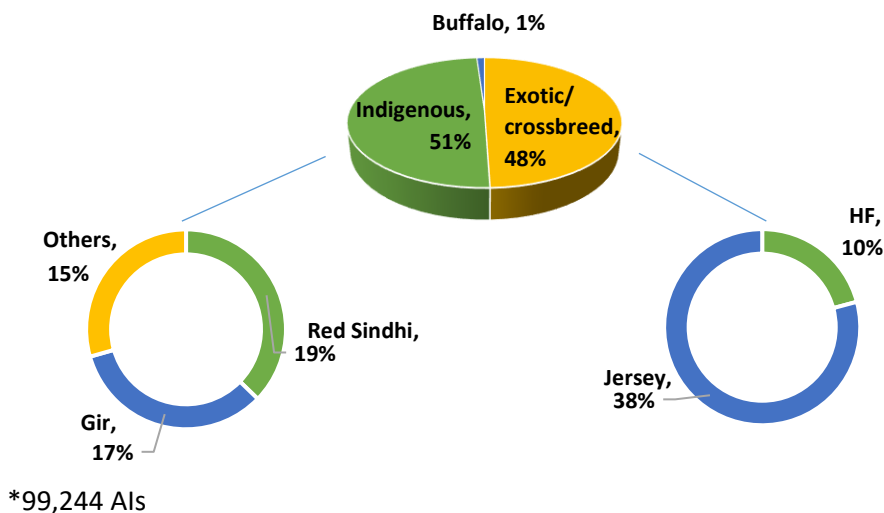
**Duration:** December 2021 to December 2022

**Key achievements:** The programme is in continuation to ILDP and is being implemented in convergence with NAIP. BAIF has been entrusted with supervision and monitoring of the programme. Existing 285 centres have been operationalised under the new programme. The programme has been successfully completed in December 2022 with total of 1,00,126 AIs reported. The year recorded over 0.99 lac AIs. Of the 45,932 cases followed up, an encouraging conception rate of 49.95% has been recorded. 4,570 calf births have been reported during the year. The top 3 districts in terms of district wise total AIs are Puri, Balangir and Nabrangpur districts. All the AI is recorded in Information Network for Animal Productivity and Health (INAPH). Promotion of indigenous breeds has been pursued.

**AI in different Districts**



**Breed-wise Insemination\***





### Major Outcomes

- ➔ Annual outreach of more than 0.7 lac farmers
- ➔ Birth of over 0.35 lac progenies of high genetic merit; promotion of indigenous breeds.
- ➔ Asset will be created at farmer level worth over ₹12.30 crore from project-born female calves.
- ➔ Annual milk production will be added of over 2.29 crore litres worth over ₹68.00 cr.

### 3. Livestock Development Programme

**Sponsor:** Adani Foundation

**Location:** Chandbali block, Bhadrak district, Odisha and Pushor & Tilda block of Raigarh and Raipur district respectively, Chhattisgarh

**Duration:** April 2019 to March 2024

**Key achievements:** The project is being implemented in the peripheral area of Dhamra port in the Chandbali block of Bhadrak district, Odisha. Beginning with two Livestock Development Centres, four more were added subsequently. The project has been extended during the year to Chhattisgarh with two CDCs at Raipur and Raigarh districts. 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 2,436 artificial inseminations have been performed, comprising of the usage of 1,321 and 1,115 regular and sex sorted semen respectively. With a focus on green fodder availability, 137 demonstrations covering perennial and seasonal fodder have been undertaken.

#### Access to quality breeding

Smt. Sankari Sahoo is a resident of Balimunda village of Bhadrak district, Odisha. She started livestock rearing in 2010 with 2 cows which were nondescript. Milk production was around 2-3 litres per day. After becoming acquainted with the project initiative, she expressed her interest in technical support and services from BAIF. Regular hand holding training helped augment knowledge, skills, confidence and assets. Presently, she has 4 cows of improved breed. After receiving technical support from BAIF team, the milk production enhanced to 15 litres per day and increase in monthly income of ₹9,000 to 10,000. Smt. Sahoo has been provided with a platform where she can acquire improved practices, raise queries to reach solutions and see successful implementation of acquired knowledge and practices on field. She had also started green fodder cultivation like hybrid Napier, Berseem, Oats etc on her 1 acre of land to enhance milk productivity and also uses BAIF mineral mixture regularly. With the support of BAIF and Adani Foundation under Livestock Development Programme, she has been able to build dairy as a profitable enterprise.



### Major Outcomes

- ➔ Asset creation of ₹68.8 lakhs at household level from female progenies, contributing to substantial wealth growth.
- ➔ A total of 137 fodder demonstrations were established, ensuring a consistent supply of green fodder throughout the year.
- ➔ Successful convergence with government departments for allied services has resulted in benefits reaching 60% of households.
- ➔ Two female volunteers have been trained and over 50% of women beneficiaries have been covered under the programme.

#### 4. Enhanced Genetics Project (EGP)

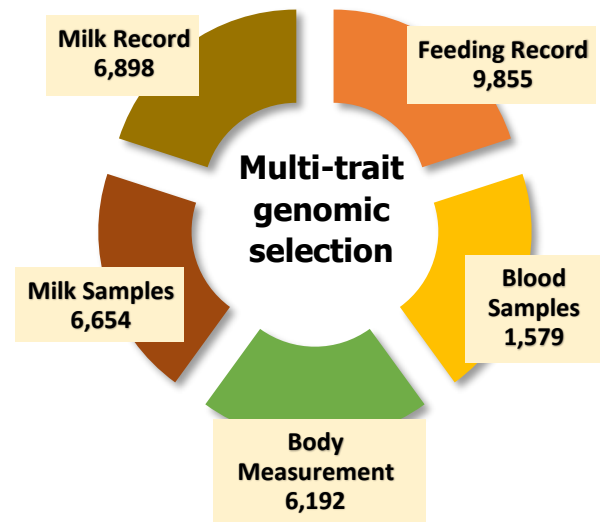
**Sponsor:** Bill & Melinda Gates Foundation

**Location:** Angul and Balangir districts

**Duration:** January 2023 to October 2023

**Key achievements:** The project focuses on several key activities to achieve its objectives in the livestock sector. These activities encompass milk sample collection, milk testing, body measurement, feeding practices and blood collection programmes, conducted with the objectives of understanding the genotype - environment interaction, establishing a platform for genomic selection among crossbreds, implementing a multi-breed and multi-trait genomic selection programme for cattle and buffaloes, evolving a farmer feedback system, demonstrating and implementing a business model and sourcing potential bull calves for semen production.

Through these activities, 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.



#### 5. Goat Artificial Insemination Programme

**Sponsor:** Tata-Cornell Institute

**Location:** Chhendipada block, Angul district

**Duration:** January 2023 to October 2023

**Key achievements:** The goat AI programme aims to enhance breeding practices by utilizing artificial insemination technique in goats. It focusses on improving genetic traits, increasing productivity and promoting better flock management in goat farming. The research-based programme focussed on four villages in Angul block. Major activities undertaken are given below:

- During the initial phase of the project, a baseline study was conducted to gather scientific data on goats and kids.
- Covered over 5,000 animals through tagging, deworming, vaccination, mineral mixture support and castration initiatives.



#### 6. Godaan

**Sponsor:** Atul Foundation

**Location:** Balangir district

**Duration:** January 2023 to December 2023

**Key achievements:** Meaningful induction of milching cattle covered 8 households in the project village of Muribahal Block of Balangir district with the objective of providing sustainable self-employment to 125 needy families through animal husbandry while encompassing activities such as cattle induction, implementation of the Sex sorted AI, fodder cultivation, training. This comprehensive approach ensures an integrated focus on improving breeding practices, sustainable agriculture, fodder supply and community development.

*"The future depends on what we do in the present." - Mahatma Gandhi*

**Major Outcomes**

- ➔ **During the year, 28 tribal families benefitted from the project, improving their livelihoods and enhancing their overall well-being.**
- ➔ **Milk collection in the village increased tenfold, ensuring greater productivity and income for the local community.**
- ➔ **Adoption of scientific livestock management practices by participant families.**

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

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

**Location:** Cuttack and Sambalpur districts

**Duration:** April 2022 to March 2026

**Key achievements:** Project deliverable shall be the availability of 68 breeding bulls by 2025-26 through a combination of different assisted productive and latest breeding technique such as genomic evaluation. 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.

With the technical support of BAIF, the demonstration of first-time embryo transfer technology has been successfully conducted at Sambalpur and Cuttack government farms, marking a significant milestone in agricultural innovation.

**8. Facilitating Non-Governmental Organization (FNGO)**

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

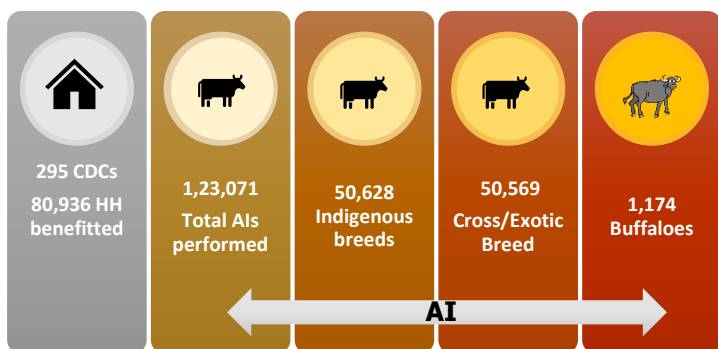
**Location:** Angul, Balangir, Ganjam and Sambalpur districts

**Duration:** May 2022 to March 2024

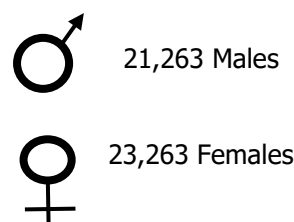
**Key achievements:** The project involved the engagement of 52 programme assistants to strengthen the implementation of Animal Husbandry and veterinary schemes and services at the block level, ensuring enhanced support and sustainable development for rural communities.



**Overview of Livestock Programme in State**



**44,526 Calves Born**



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.

Significant contributions to family well-being are made in the CSR-supported projects and livestock continues to be the major contributor to family income as well as the dominant component of project intervention based in Odisha.

## National Gopal Ratna Award for Livestock Technician from Odisha

In 2022, Shri. Gopal Rana, the head of Sikuan Cattle Development Centre in Balangir, Odisha, was honored as the nation's top AI Technician with the National Gopal Ratna Award. Presented by Dr. Sanjeev Kumar Balyan, Minister of State for Fisheries, Animal Husbandry, and Dairying, along with Shri. Rajesh Kumar Singh, Secretary of Animal Husbandry Department, the award came with a ₹5 lakh cash prize, a certificate, and a memento. Coming from a modest Odisha family of seven, Gopal pursued a post-graduate degree in Social Work, channeling his passion for rural and livestock development. He began as a private para-veterinarian in 2008 and later joined BAIF Odisha as a Self-Employed Youth (SEY), offering vital breeding and advisory services to 1,500-2,000 families over 11 years.

Gopal's adoption of cutting-edge technologies, like sex-sorted semen and genomic evaluation, yielded a remarkable 90% probability of female calves from over 1,700 sorted semen artificial inseminations. In the last three years, he conducted 6,000 artificial inseminations, enhancing livestock quality worth over ₹1 crore. Achieving this in an economically challenged region is commendable. Under Gopal's guidance, milk collection centers grew from five to 3,000 liters daily, boosting local sales. He actively participated in vaccination, health camps, training, and promoted balanced nutrition, green fodder cultivation, and proper feeding practices across 20 acres.

Gopal's dedication and efficient service delivery earned respect and trust from local families, ensuring livelihood security and enabling his children's education. His success highlights BAIF's model of doorstep livestock development services and local self-employment, supported by the Odisha government and recognized by the Indian government in nation-building efforts.



## B. Water-centric Livelihoods

Water-centric livelihoods play a vital role in sustaining communities, providing employment opportunities and economic stability through various activities. These livelihoods are closely tied to the availability and management of water resources, highlighting the need for sustainable practices that ensure long-term water security and support the well-being of both individuals and ecosystems. A Project wise description under this theme is given in the following sections.

### 1. Comprehensive Community Development Programme (CCDP) - Utthan

**Sponsor:** Mahanadi Coalfields Ltd.

**Location:** Angul, Jharsuguda, Sambalpur and Sundargarh districts

**Duration:** May 2019 to November 2024

**Key achievements:** The project has major holistic initiatives covering 40 villages across 4 districts. It follows a holistic approach to enhance living standards with a focus on livelihoods and quality of life. For sustainable livelihoods, the model is to create multiple income avenues spread across the year. Quality of life activities mainly focus on awareness and behavioral aspects. For both, a combination of improved practices and appropriate technologies is followed. During the year, 1,260 households were covered under water resources development and improved agriculture practices. The focus of the *Kharif* season has been on enhancing the yield while increasing the cultivated area with new crops is undertaken during the *Rabi* season.



Diversifying income is pursued through a combination of the following activities:




- Small plot high value crop cultivation.
- Integration with water harvesting, conveyance, water-use efficiency and post-harvest management.
- Adoption of improved cultivation practices, residue free production.

### Winning hearts with multi-tasking ability

Smt. Prabhati Naik, a talented and socially inclined resident of Nua-adhapada village, Sambalpur, Odisha, lives with her husband and two children. The village practices traditional agriculture and daily wage labour is common for survival. In response, MCL's CCDP - *Utthan* partnered with BAIF for intervention in Jujomura Block, appointing Prabhati as a community resource person. She actively participated in capacity building and identified needy farmers. Being a BAIF participant in the *Wadi* model, she inspired others to adopt improved agriculture practices. Prabhati's dedicated work supports many farmers through BAIF initiatives like improved vegetable cultivation practices, natural resource management and water resource development. With strong community connections, she has successfully raised awareness on modern farming methods and is an active member of the SHG, encouraging record-keeping and savings among women, contributing to village development and a better future.



#### Major Outcomes

-  **Increase in water saving upto 56 TCM.**
-  **Improved cultivation practices leading to approx. 20% yield increment in paddy.**
-  **Intercropping in 244 wadi covering 48 ha unproductive land.**

## 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

**Key achievements:** The project is spread across 17 villages in the mining areas of JSW Steel in Keonjhar and Sundargarh districts. With a focus on improving water resources, the project has successfully benefited 113 households in terms of coverage and support. Major activities undertaken during the year are given below.

- Excavation of 16 farm ponds with cumulative storage potential of 120 lac litres.
- Soil and moisture conservation work has been undertaken on 100 ha area through farm bund-cum-trench.
- 70 families adopted improved vegetable cultivation practices.
- 20 farmers have adopted micro-irrigation techniques, demonstrating their commitment to sustainable and efficient water management practices in agriculture.

*“Thinking is the capital, Enterprise is the way, Hard Work is the solution”- A.P.J. Abdul Kalam*

### Unleashing potential for livelihood enhancement

Mr. Lakhan Kumbhar belongs to Kendudihi village of Keonjhar district. His household is wholly dependent on agriculture. He was not getting enough agricultural produce. It was challenging for him to meet the needs of his family. Exposure visits and training at the *Krishi Vigyan Kendra* were instrumental in reshaping Lakhan's income and lifestyle. Participating in exposure visits, Lakhan gained valuable insights into innovative farming practices and successful models. Motivated by these experiences, he implemented these techniques on his own farm. Through the training programmes, Lakhan acquired in-depth knowledge and practical skills in various aspects of



agriculture. This led to increased productivity, efficiency and higher yields. By adopting high quality seeds, solar irrigation systems, micro irrigation techniques and trellis farming, Lakhan's annual income surged to 2.5 lakhs, transforming his livelihood. Lakhan's journey is an inspiration to the power of knowledge and support within the JSW supported Holistic Cluster Development Programme. His success exemplifies the commitment of the programme to agricultural productivity enhancement, water management and farmers' income.

### 3. Sustainable Community Development Programme (SCDP)

**Sponsor:** ACC Trust

**Location:** Durg and Bilaspur districts of Chhattisgarh

**Duration:** April 2022 to March 2023

**Key achievements:** The project aims to cover 6 villages in Jamul cluster and 5 villages in Chilathi cluster of Durg and Bilaspur districts respectively. The programme aims to enhance community living standards through water-centric livelihoods, including doubling farmer income, increasing post-monsoon cropping intensity, introducing high-value crops, diversifying income and ensuring water availability and access. The project includes the installation of solar lift irrigation systems of 20 hp in Chilathi cluster, bringing immense benefits to 64 households. This initiative has effectively expanded the irrigated area to cover 20 ha, providing sustainable access to water for agricultural purposes. Additionally, the project has successfully completed the construction of four pond desiltation initiatives, resulting in the reclamation of a substantial 34 ha area for irrigation purpose. In Jamul cluster, two rooftop rainwater harvesting structures have been meticulously constructed in schools, fostering sustainable water management practices.



#### Major Outcomes

- ➔ **Water Harvesting potential created upto 40 TCM ensuring water availability to more than 300 households during lean months.**
- ➔ **Increased income by ₹30,000 per family per season through improved agriculture practices.**

### 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

**Key Achievements:** The project is spread across 3 blocks of Sambalpur district with livelihood and quality of life at its core. At present, this project has benefitted around 156 farmers with establishment of 156 farm ponds and support of 200 water lifting devices which have resulted in water harvesting potential of 36 TCM and irrigation of 20 ha thereby enabling irrigation during dry spells. The surface storage structures will aid during post monsoon period.



In addition, 25 micro irrigation systems have been adopted by 30 families and 2 core wall gabions & 5 Loose boulder structure have been constructed to aid farmers in soil erosion control, water management, land leveling and crop protection.

#### Major Outcomes

- ➔ **Water use efficiency is adopted by micro-irrigation systems which save ~ 50 % water as compared to flood irrigation.**
- ➔ **In-situ water harvesting potential of 36 TCM created with water harvesting structures providing critical irrigation.**

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

Agriculture and horticulture form the backbone of the economy in rural areas. In Odisha, land resources are available in plenty, while water resources are lacking. Proper management and utilisation of water can result in efficient utilisation of land towards development of *Wadis* (tree-based farming model). This approach has been adopted in two projects wherein successful conversion of land has been undertaken to provide year-round productive engagement and additional income. BAIF's innovative model of "Agri-horti-forestry (*Wadi*)" integrates horticulture into the farming system for



sustainable livelihoods through climate smart practices, productive engagement with underutilised land and optimal use of local resources. The model with horticulture as the core component, ensures multiple income streams round the year especially during the lean period from a combination of medium gestation-high resilience and short gestation-high return cropping patterns. Major projects are HDFC Bank - supported Focused Rural Development Programme (FRDP) and Mahanadi Coalfields Ltd. - supported Comprehensive Community Development Programme (CCDP – *Utthan*), brief description of which is given in the following section.

#### 1. Focused Rural Development Programme (FRDP)

**Key achievements:** The project is spread across 3 blocks of Sambalpur district. Emphasis is on water energy nexus for enabling higher productivity from agriculture and allied vocations. Focus on high resilience with low gestation – high returns cropping ensured round the year income stream from under-utilized lands. 200 such *Wadis* have

*"Learn as if you will live forever, live like you will die tomorrow." — Mahatma Gandhi*

been established under FRDP project, *Samudayik Utthan* – Focused Rural Development Programme (FRDP) sponsored by HDFC Bank under their flagship CSR initiative *Parivartan* aims to cover 5,000 families.

**From Barren to Bountiful: Journey of Land Transformation...**

Smt. Arnapurna, a 48-year-old farmer from Satsama village, Rairakhol block, Odisha, owns 1.4 ha of land. Unfortunately, 1 ha are barren, but she practices rainfed agriculture on the remaining 0.4 ha due to lack of water source for irrigation. Arnapurna, a member of SHG - Maa Subhadra, relies on farming and a small *pan* shop for income. Most of their harvest is consumed, with only 20-30% of paddy sold for a meagre ₹5,000. The *pan* shop brings in an average of ₹1,800 per month, with assistance from her husband and children. Motivated by the potential of transforming her unproductive land, Arnapurna enthusiastically joined the HDFC Bank's supported *Wadi* initiative after learning about it in a village meeting. She received 25 mango saplings and planted them on 0.2 ha. With support and technical guidance, Arnapurna transformed her barren land into a productive resource, generating income in future. Grateful to HDFC Bank and BAIF for their assistance, Arnapurna hopes to continue learning and inspire others in her village to adopt the *Wadi* model.



**Major Outcomes**

- ➔ Increase in green cover, restoring and enriching approximately 40 hectares of land with agri-horti-forestry *Wadi*.

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

**Key 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 49 ha of land until now. Within four 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.



**Major Outcomes**

- ➔ 49 ha of additional green cover established through 244 *Wadis*.
- ➔ 111 fruiting *wadis* with 15 tons of mango production.
- ➔ Additional income of approximately ₹30,000 per year for participant families on an average through intercropping.





## D. Rural Non-Farm Sector-based Livelihoods

Rural Non-Farm Sector (RNFS) livelihoods play a crucial role in reducing dependence on traditional agriculture, promoting rural development and fostering economic diversification, ultimately improving the overall quality of life in rural communities. It encompasses a diverse range of economic activities which contribute to income generation and employment opportunities in rural areas. The specific projects with RNFS component and their contribution to the RNF Sector are detailed below.

### 1. Sustainable Community Development Programme (SCDP)

**Key Achievements:** Under the SCDP project in Chhattisgarh, successful enterprise development at both individual and group levels has resulted in additional income generation. Various activities have been implemented to create adaptive methods for income generation. The project covered 11 Self-Help Groups (SHGs) and 19 families.



Poultry & duck rearing micro enterprises



Wooden Cart



Cotton Wick Machine



Papad Rolling Machine

### 2. CCDP and FRDP

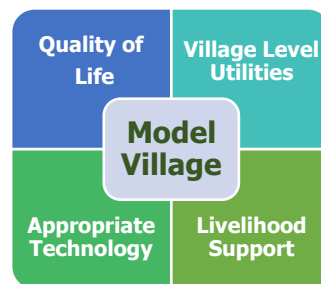
**Key Achievements:** Under CCDP, mushroom production has been taken up focussed on production at the household level and aggregation at the group level thus leveraging both collective strength and individual ownership. 1 SHG and 75 new families have been added under Rural Non-Farm Sector-based livelihoods. Additionally, backyard poultry in semi-free-range model has been taken up by 499 households since the inception.



## 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.



**1. Farm equipment bank:** A Farm equipment bank was established at Terbeda village, Naktideul block of Sambalpur district where different agricultural equipment such as paddy thresher and power tiller were provided for ensuring smooth cultivation practices ranging from nursery preparation to harvesting. The bank is owned by a village level administrative body named M/S Shanti SHG Muturmunda and Maa Mariyam SHG.



**2. Backyard Poultry:** Backyard poultry offers a valuable opportunity for small-scale farmers to diversify income, improve food security and promote sustainable agriculture. To provide a sustainable source of fresh eggs and meat, ensuring food security for rural communities and empowering local residents to engage in small-scale entrepreneurship, a total of 177 households were covered during the year.

**3. Nursery:** To propagate and grow plants for income and employment generation, a high-tech nursery was established in Naktideul block as an enterprise development through SHG with locally available technology. Establishing a nursery with SHGs brings together the strengths of both entities, leveraging resources, skills and social support systems.

**4. Skill Development:** Participants were equipped with diverse training sessions to enhance livelihoods, fostering skills to improve their quality of life significantly. Under C4G project, so far, 70 families were registered for courses to attend trainings.



### Rising above challenges

Mrs. Flora Madaki, a resident of Birsingarh, Sambalpur, faced financial struggles with traditional rain-fed farming practiced on a 0.6 ha land was not enough to sustain their livelihood. With support from BAIF and MCL, she ventured into backyard poultry farming. They received assistance for constructing a poultry house, along with feeders, drinkers and training. 25 poultry chicks, including Sonali and Kadaknath breeds, were provided. Regular training sessions and meetings addressed their concerns, while medicines were provided for disease control.

Each Vanraj chicken weighing 2.5 kg and above fetched ₹600, while the Kadaknath breed sold for ₹700 per kg. They sold all the poultry, earning ₹15,500. This success transformed their livelihood, bringing economic empowerment. Flora's story showcases the impact of targeted interventions, enabling small-scale activities to lead to prosperity and a better future for families like hers.



## 2. CLIMATE ACTION PROGRAMMES

Climate change is a global threat which is affecting lives globally while barring growth at local levels too. In the present context, it becomes inevitable that all project interventions include climate change adaptation and mitigation measures to secure livelihoods and at the same time secure resources for future generations.

In Odisha, climate change has its effects in reduced and uncertain rainfall, erratic and prolonged dry spells in *Kharif* and abnormal temperature rise and fall which not only affects production and hampers immediate income but also mars the local resource base. Land-based interventions are taken up in such a manner as to include climate change adaptation along with maintaining livelihoods and income intact for immediate benefits. Specific interventions and packages promoted are listed and explained in the following sections.

### A. Climate Change Adaptation and Mitigation Strategies

#### 1. CCDP, HCDP, SCDP, FRDP

**Key achievements:** 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 45,000 kWh. Solar insect traps have been introduced for effective pest control with reduced use of chemicals.



Regular Semen		4 Cows Producing 1 Calf/Year		Sexed Semen	
Heifer Calf	Bull Calf	Heifer Calf	Bull Calf	Heifer Calf	Bull Calf
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
TOTALS		TOTALS		TOTALS	
13	13	29	29	13	13

The sex-sorted semen technology contributes to reduction in GHG emissions through optimal herd sizing. As herd size is reduced, dung production and rumination decreases, resulting in lower methane gas emissions. In the dairy sector, preference is always given to a female calf and thus the use of X chromosome bearing sperm semen will be useful to produce maximum number of females.

Crops that can be grown on residual moisture during and after *Kharif* season are also promoted on pilot basis. For e.g., intercropping was promoted for cultivation in established *Wadis* which provided additional income to *Wadi* farmers from the same land with minimal inputs and efforts. Moreover, *Wadis* contribute positively to carbon sequestration at the rate of ~ 24 tonnes per ha.

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.

Cactus cladodes demonstrate resilience in arid conditions and provide food and forage resources. Their water-efficient growth, carbon sequestration capabilities and ability to thrive in extreme climates make them valuable assets for sustainable land management and for combating climate change impacts. 25 such cactus cladodes plots have been established.



### B. Climate-Smart Agriculture

#### 1. CCDP- Utthan, FRDP, SCDP

Trellis farming promotes efficient land use and water conservation through vertical cultivation, contributing to reduced carbon footprint and increased sustainability. It also minimizes the use of synthetic pesticides and

fertilizers, promoting ecological balance and biodiversity. Vermi compost is used for enhancing soil fertility, water retention and carbon sequestration, while reducing the need for synthetic fertilizers and landfill waste. 700 vermi beds were distributed to the beneficiaries. Nursery farming supports the conservation of plant diversity and genetic resources, while providing a controlled environment for seedlings to thrive and adapt to changing climate



conditions. It also helps in mitigating soil erosion and promoting sustainable land management practices. Paddy reduces greenhouse gas emissions by employing water-efficient techniques such as alternate wetting and drying, while also enhancing soil fertility and resilience through practices like organic matter incorporation and crop rotation.

In a transformative effort, over 200 trellis plots spanning 20 ha have been established. This initiative provided beneficiaries with permanent trellis structures, replacing traditional methods to optimize space utilization and improve farming practices. With a total of 719 beneficiaries covered under this programme, trellis management underwent a significant transformation. The shift from traditional to modern trellis methods enabled farmers to achieve higher yields and enhance agricultural productivity while bringing long-term benefits to the beneficiaries. These structures provided stability and support to climbing crops like bitter melon, cucumbers, bottle melon etc while maximizing land utilization. The adoption of these modern techniques led to increased crop yields and improved quality. Through the provision of support and promotion of permanent trellis structures, farmers have been empowered to embrace efficient techniques and unlock their agricultural potential.



### 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

**Key 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. Conservation and management efforts include in-situ actions, nutrition gardens, strengthening of seed producers, market linkages, germplasm registration, networking and capacity building of stakeholders to safeguard crop diversity and to promote indigenous produce. For listing of genome savior



conserving crop, landraces of various crops like paddy, cowpea, black gram etc have been collected through field visits covering 25 farmers. Developing Linkages of NGO's and Seed saver organizations. On-farm conservation of rice established at Nua-Adhapara and Dadumunda villages of Jujomura block for initial screening and purification purpose of 9 accessions over 1.8 ha.

## D. Renewable Energy

### 1. CCDP and SCDP

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 45,000 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.

## 2. 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 Project

**Sponsor:** Jindal India Thermal Power Ltd (JITPL)

**Location:** Kaniha block, Angul district

**Duration:** January 2023 to March 2023

**Key Achievements:** The project has successfully established ten solar-powered drinking water systems with sole purpose of ensuring access to continuous supply of clean and safe drinking water to the communities from all sections of the society.

### 2. Livelihood Enhancement through self-employment

**Sponsor:** Charity for Goodness

**Location:** Gajapati district

**Duration:** October 2022 to March 2023

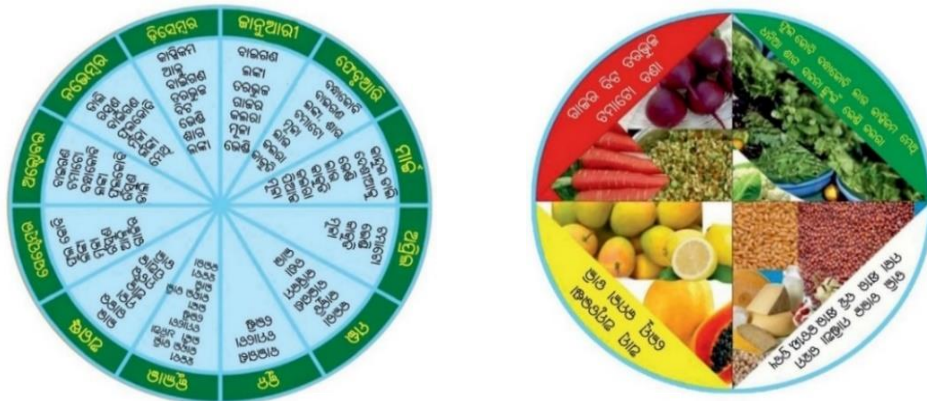
**Key Achievements:** The project focusses on skill development and capacity building of the community. Total 125 participants were covered under the project. The training for skill development was carried out through Rural Development and Self Employment Training Institute (RSETI), Government of Odisha.



### 3. CCDP - Utthan

**Key Achievements:** To solve drinking water quality and access issues, hand pumps are being repaired with provision of platform and soak pit, benefitting 406 households. Clean drinking water was supplied benefitting all

the households. Kitchen garden establishment is pursued with the objective of strengthening nutrition intake at the household level. Nutrition charts are shared with the households for easy reference and understanding. 700 households were covered through this activity.



Nutritional charts

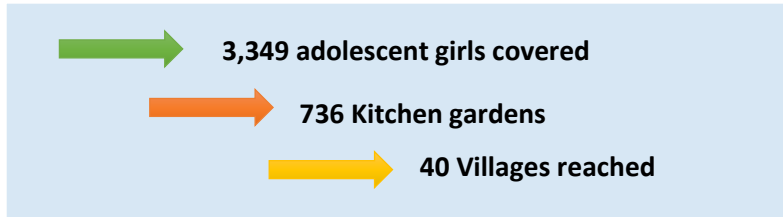


## B. Women-centric Development

### 1. CCDP, FRDP, SCDP

To address the issue of 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 were deployed for providing basic diagnostic services. 3,680 households have been provided with preventive health care. So far, 14 SHGs of 10 members each on an average have been covered under enterprise development initiative. Some key figures are listed below.





### C. Capacity Building

Capacity building exercises focus on information dissemination, knowledge sharing-learning and empower the community to be self-reliant. Various activities like training, exposures, demonstrations, documentation and camps are undertaken in this context. It also helps in keeping the team apprised of emerging development. The summary is given below.



**Team Capacity Building**

Theme	Sessions (No.)	Participants (No.)
Agriculture	4	47
Communication	2	15
Finance	2	55
HR	2	62
Information and Communication Technology	2	32
Livestock	3	42
Quality of life	3	17
Documentation	1	11
Programme Management	5	46
Gender Sensitization Workshop	2	55
Orientation Programme	10	28



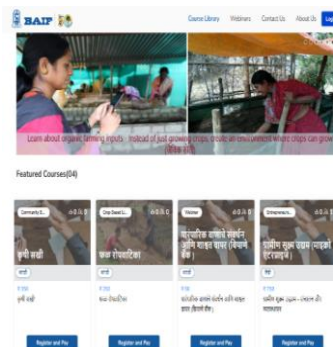
Dr. Mousumi Mohapatra and Dr. Sourav Das, Veterinary Officers, Govt. of Odisha attended a 3-day Genomic Workshop at in January 2023. Experts from developed countries and national institutes conducted training on genomic evaluation, including data cleaning QC and the use of R and WOMBAT software. They were provided with a small dataset for practice purposes.

**D. Educational Initiatives**

**1. CCDP, FRDP, HCDP, AIP, Godaan**

**i. Learning Management System (LMS)**

The Learning Management System of BAIF provides short and long duration courses in areas such as agriculture, livestock, natural resource management, community-based development, enterprise development for capacity building of farmers along with webinars. 35 farmers could learn through this platform and develop their skills for livelihoods enhancement. The courses offered cover multiple domains and hence are applicable for usage and benefit across multiple projects.



**ii. School Infrastructure support**

Fourteen school educational paintings have been completed, along with the provision of five sets of school sports equipment. These educational paintings have added vibrancy and creativity to the school environment, fostering a more engaging and stimulating learning atmosphere. The provision of sports equipment not only promotes physical activity but also encourages teamwork and healthy competition among students. Additionally, four audio-visual awareness sessions on health hygiene have been conducted for school children. 820 children benefitted from this activity.



Roof-top rainwater harvesting, an integral part of water conservation, was implemented in the school to raise awareness about its importance among children. A dedicated structure has been constructed specifically for this purpose.



*“Education is the most powerful weapon which you can use to change the world.” - Anonymous*



## E. ICT for Development

### 1. CCDP, AIP, SCDP, FRDP, HCDP

#### 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. It has been found to be a very useful application for recording 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

1



Research was conducted on effect of application of nano urea, potassium silicate and micronutrients on growth and yield of paddy in Jharsuguda district. It was found the application of treatment T<sub>9</sub>, i.e. recommended dose of fertilizer (RDF) source of nitrogen through Nano urea along with potassium silicate and micronutrients is essential for getting the maximum number of tillers, productive tillers, panicle length, number of grains per panicles, number of filled grains per panicles and grain filling percentage and yield of paddy during *Kharif* season at Jharsuguda, Odisha.

Portable “Subjee Cooler” has been introduced in MCL supported CCDP project. It brings significant benefits to small-scale farmers with cost-effective cooling solution, made with GI sheets and operating without electricity or solar power, offering affordability and accessibility to farmers with limited resources. By requiring just 20 litres of water daily, it effectively extends the shelf life of perishable produce, minimizing spoilage and wastage. Field data reveals substantial savings of ₹1,500-2,000 per unit per week.



2

*"The empowerment of rural women is the key to unlocking the true potential of our villages, fostering equality and nurturing inclusive growth." - Anonymous*

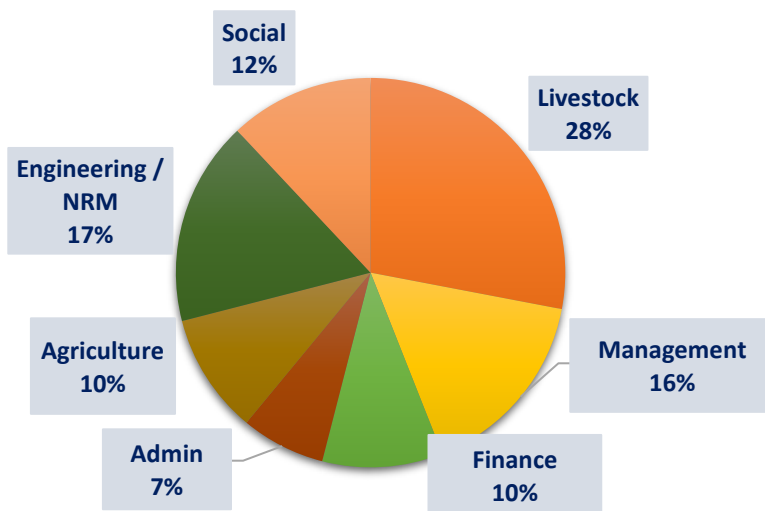
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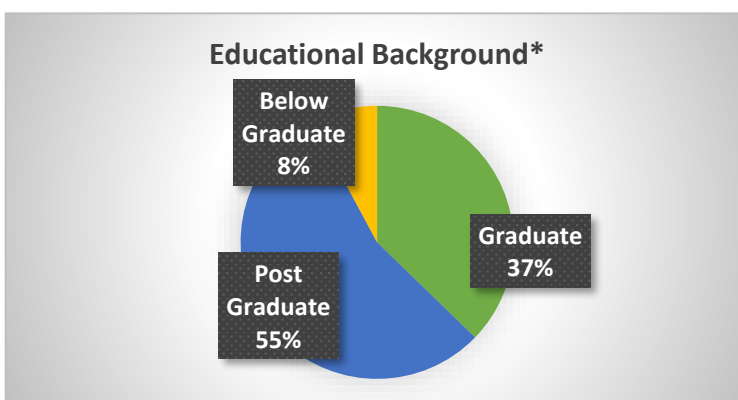
Introduced the new improved varieties of Jackfruit in different project locations to study the performance of elite varieties. 150 grafts are planted at farmers' field in month of Oct 2022. Growth performance of plants is good and survival is 82 % in time span of three months.

## 6. HUMAN RESOURCES

### Functional Expertise\*

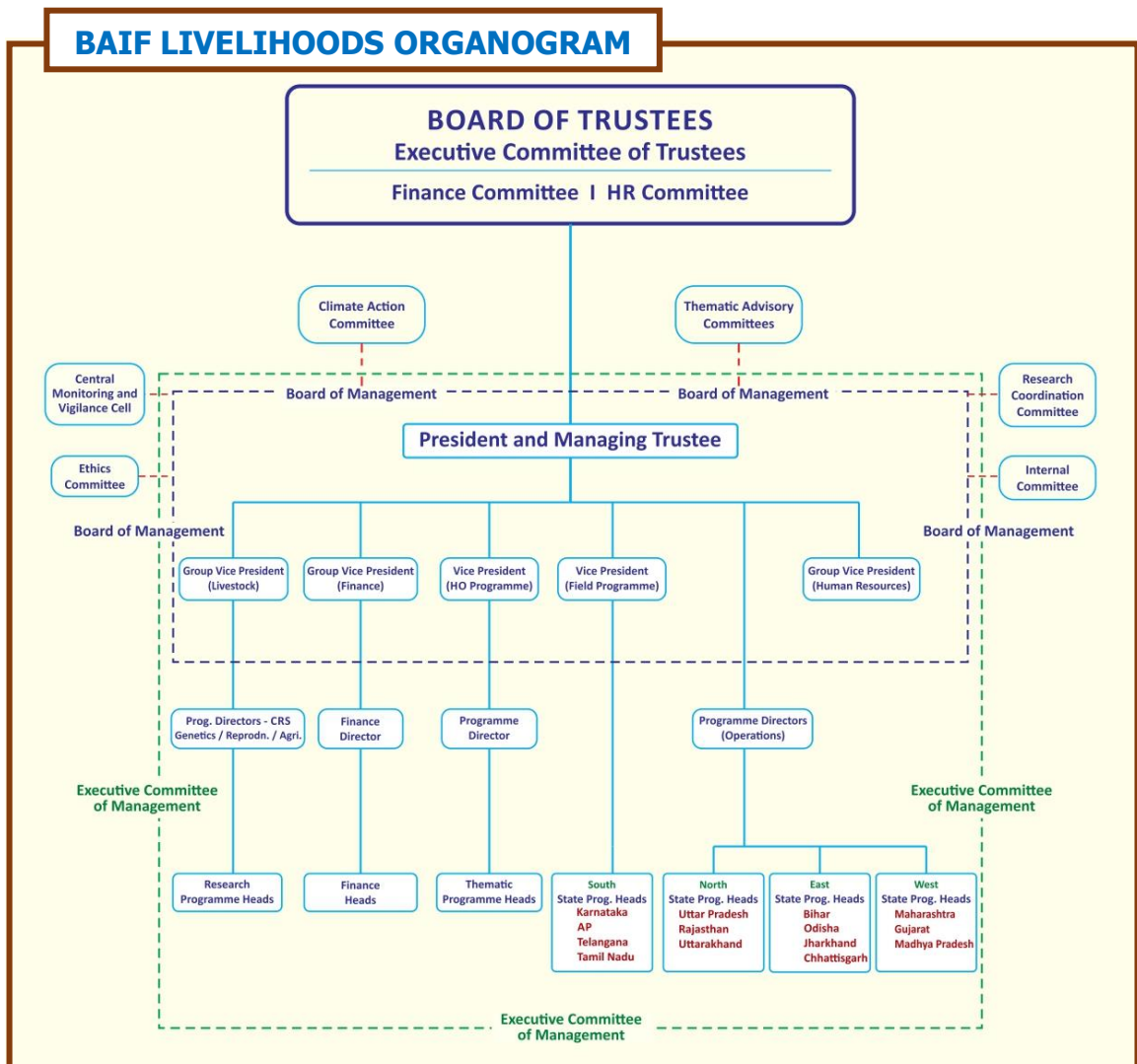
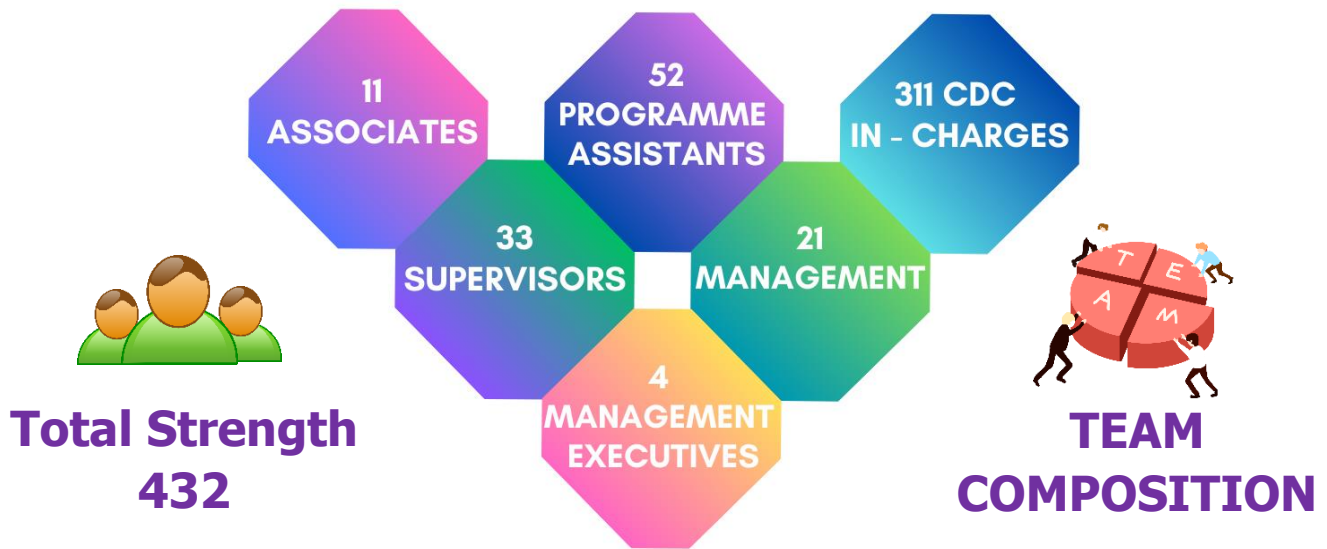


### Educational Background\*



\*Excludes Cattle Development Centre (CDC I/Cs)

"Take risks in your life. If you win, you can lead; if you lose, you can guide." - Swami Vivekananda



## 7. PARTNERSHIPS

### SPONSORS

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

Odisha Livestock Resources Development Society

Mahanadi Coalfields Ltd.

Adani Foundation

Bill & Melinda Gates Foundation

ACC Trust

JSW Foundation

Atul Foundation

HDFC Bank

Charity for Goodness

Jindal India Thermal Power Ltd. (JITPL)

Tata-Cornell Institute

### COVERAGE

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

All 30 districts of Odisha

Angul, Jharsuguda, Sambalpur, Sundergarh

Bhadrak district, Odisha and Raipur & Raigarh district, Chhattisgarh

Angul, Balangir, Bargarh, Sambalpur & Sonepur

Durg & Bilaspur districts, Chhattisgarh

Keonjhar, Sundargarh

Balangir

Sambalpur

Gajapati

Angul

Angul

### PROGRAMMES

Livestock Development: Breeding

Livestock Development: Breeding

Holistic Development

Livestock Development: Integrated services

Livestock Development: Characterization and performance recording

Water-Centric Livelihoods

Water-Centric Livelihoods

Livestock development: integrated services

Agri-horti-forestry (*wadi*)

Skill Training

Health and Sanitation

Livestock Development: Breeding



April 2022: Signing of MoU with Directorate of Animal Husbandry and Veterinary Services (DAH&VS), Odisha for Breeding Bull Production using Assisted Reproductive Techniques and Genomic Evaluation.

*"The greatest sin is to think yourself weak." - Swami Vivekananda*

May 2022: Signing of MoU with Chief District Veterinary Officers of Sambalpur, Angul, Balangir and Ganjam for Strengthening of Livestock and Animal Husbandry Programme at Block Level.



June 2022: Signing of MoU with OLRDS, Odisha providing bovine breeding and allied services by skilling and deployment of 1500 youths through Multipurpose Artificial Insemination Technicians in Rural India (MAITRI) training.



October 2022: Regional Director – East and State Head – Odisha met Shri. Suresh Kumar Vashishth, IAS, Secretary, Fisheries & ARD Dept., Government of Odisha to apprise him programme status.



January 2023: BAIF Odisha team was invited to present their experience and models of goat development to the Principal Secretary, Fisheries & ARD Dept., Government of Odisha.

February 2023: BAIF East Presenting BAIF programme to Ms. Nusrat Pathan, Head – CSR, HDFC Bank at the Regional Partners' Meet.



*All of us do not have equal talent, but all of us have an equal opportunity to develop our talents.*  
- Dr. A.P.J. Abdul Kalam

### BAIF Programme Coverage



### Visitors to field programmes



September 2022  
 Mr. Swaroop Sharma, CSR Manager, HDFC Bank Ltd. at Jujomura cluster, Sambalpur



November 2022  
 Ms. Ananya Das, IAS, Collector and District Magistrate of Sambalpur



February 2023  
 Mr. Dilip Ku Bal, Programme Director, District Rural Development Agency (DRDA), Sambalpur



March 2023  
 Shri. Deepak Chinchkhede, Assistant Controller of Mines, Indian Bureau of Mines Durg, 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.

#### ANNUAL REPORT DESIGN

Ms. Prakriti Rani, Sr. Project Officer

*"The best way to find yourself is to lose yourself in the service of others." - Mahatma Gandhi*

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Cover photo (Clockwise): Smt. Sarojini Pradhan of Sundargarh nurturing wadi (top); Project-born progeny of Bhadrak (middle right); Promotion of fodder farming (bottom); Shri Bibhuti Biswal of Lakhanpur, Jharsuguda with farm produce (middle-left).



## BAIF Livelihoods – Odisha & Chhattisgarh