

TRIBAL PROSPERITY THROUGH PIGGERY

Pathways to wealth and welfare



ICAR-National Research Centre on Pig
Rani, Guwahati-781131, Assam, India



nrcp

Tribal prosperity through piggyery

Pathways to wealth and welfare



ICAR-National Research Centre on Pig
Rani, Guwahati-781131, Assam, India



 nrcp.icar.gov.in |  nrconpig@rediffmail.com |  [@nrcpig](https://twitter.com/nrcpig) |  [icarNrcOnPig](https://facebook.com/icarNrcOnPig)



Foreword

Animal husbandry is one of the significant sub-sectors of the Indian agriculture system and piggery plays a pivotal role in terms of sustainable livelihood and nutritional security of weaker sections of the society, especially in the North-Eastern region of India. The total population of pigs in the country is 9.06 million (20th Livestock Census, 2019) with the highest population in Assam (2.1 million).

The participation of marginalized communities in pig farming is seen greatly and in this context programs like Tribal Sub Plan (TSP) play a great role in the sustenance of their livelihood. ICAR-NRCP has implemented the activities of these programs in far-flung tribal districts of the North-Eastern Region. The programs aimed at distributing proper inputs for overall piggery development, designing and implementing training programs to create employment avenues, and field days to increase awareness and interest in pig farming.

It is a matter of great pride and pleasure that the institute is showcasing its field activities carried out under TSP in the form of a book. The book also features some successful case studies mentored under these programs. This book is a great effort to properly document the efforts of the scientists in ensuring the livelihood and nutritional security of the farmers. The farmers' needs are prioritized and suitable interventions have been brought into the field with proper integration of the stakeholders. Stories of successful farmers go beyond documentation in inspiring the youths of the northeastern region to take up piggery as a profitable enterprise. The articulated document also suggests some scaling-up measures and a future roadmap to implement these programs with better efficiency and perfection.

I wish you all the success in designing this document with great perfection and ease and hope this should be continued in every year.



(Vivek Kumar Gupta)
Director, ICAR-NRCP







Contents

About ICAR-NRCP	1-3
ICAR-NRCP-Driving a New Era in Pig Farming	4-6
Contextual back-ground of Tribal Sub Plan	7-8
Need Assessment and Preliminary Survey Report	9-11
Success Stories	12-82
Activities Under Tribal Sub Plan	83-88
Glimpses of The Activities	89-95
Bridging the Socio-Economic Gap	96
Amplifying the Scalability and harnessing opportunities in the North Eastern Region	97-98
Way Forward and Future Vision	99-100
Impact at a Glance	101-102

About ICAR-NRCP

The ICAR-National Research Centre on Pig (ICAR-NRCP) was established in 2002 under the aegis of the Indian Council of Agricultural Research to bring excellence in pig production, health and product processing through innovative research to provide technology backstopping for enhanced pork production, employment generation and poverty reduction among socially and economically weaker sections through the medium of pig husbandry. The institute is involved in popularizing superior quality germplasm, effective nutritional interventions, scientific pig production practices, real-time disease monitoring and surveillance, post-harvest pork processing and value addition etc.. Activities of ICAR-NRCP envisages on all-round development of the piggery sector along with its affiliation units, viz., Krishi Vigyan Kendra (KVK), All India Coordinated Research Project (AICRP) and Mega seed Project. The institute also supports tribal and scheduled caste communities through its outreach programmes through out the country.



Our Mission ■

Performance appraisal and genetic cataloguing of indigenous pigs, development of improved pig variety together with production, health, product processing and pig based integrated farming system technologies to facilitate the pig rearers of the country achieving household food, nutritional and economic security.



Our Vision ■

To bring in excellence in pig production, health and product processing through innovative research in order to provide technology backstopping for enhanced pork production, employment generation and poverty reduction among socially and economically weaker sections through the medium of pig husbandry.



Our Mandate ■

- To undertake basic, strategic and applied research in the areas of pig production and health including product/by-product processing, value addition through quality control measures and transfer of the evolved technologies to the client groups.
- To act as a repository of information on pig production and health for regional, national and global policy planning and implementation.

Focus ■

- Genetic improvement of indigenous pigs through selective and crossbreeding including identification of new traits, genome wide association studies and finally genomic selection.
- Improvement of physiological and reproductive efficiency of pig production.
- Address the issues related to feed shortage and improvement of nutrient utilization for enhancing pig production.
- Development of pig health management protocols.
- Post harvest management and value addition of pork.
- Promote environment friendly and climate resilient pig farming.
- Institute-stakeholder linkage and skill developments for improved pig seed production at various levels of pig production.
- Develop a database for strategic planning and policy support at national and international level including development of networks.
- Programs to induce and sustain economic transition and nutritional security among the pig rearers through development of novel products and technologies, their transfer and refinement.

ICAR-NRCP

Driving a New Era in Pig Farming

The **ICAR-National Research Centre on Pig (ICAR-NRCP)** has played a pivotal role in transforming the pig husbandry sector in India, especially in the North Eastern region, where a significant portion of the country's pig population resides. Established in 1990 following the recommendation of the All India Coordinated Centres on Pig, the Centre was set up to address the unique challenges and opportunities within pig farming, contributing to the economic and nutritional security of rural and tribal communities.

Advancement in Research and Technology

ICAR-NRCP's mission focuses on advancing pig farming through innovative research in breeding, health, production, and product processing. The Centre has pioneered efforts to improve indigenous pig breeds and develop new, high-yielding varieties tailored to the diverse environmental and genetic conditions of the region. This has enabled farmers to raise pigs that are more resilient, productive, and economically viable, meeting the growing demand for pork.

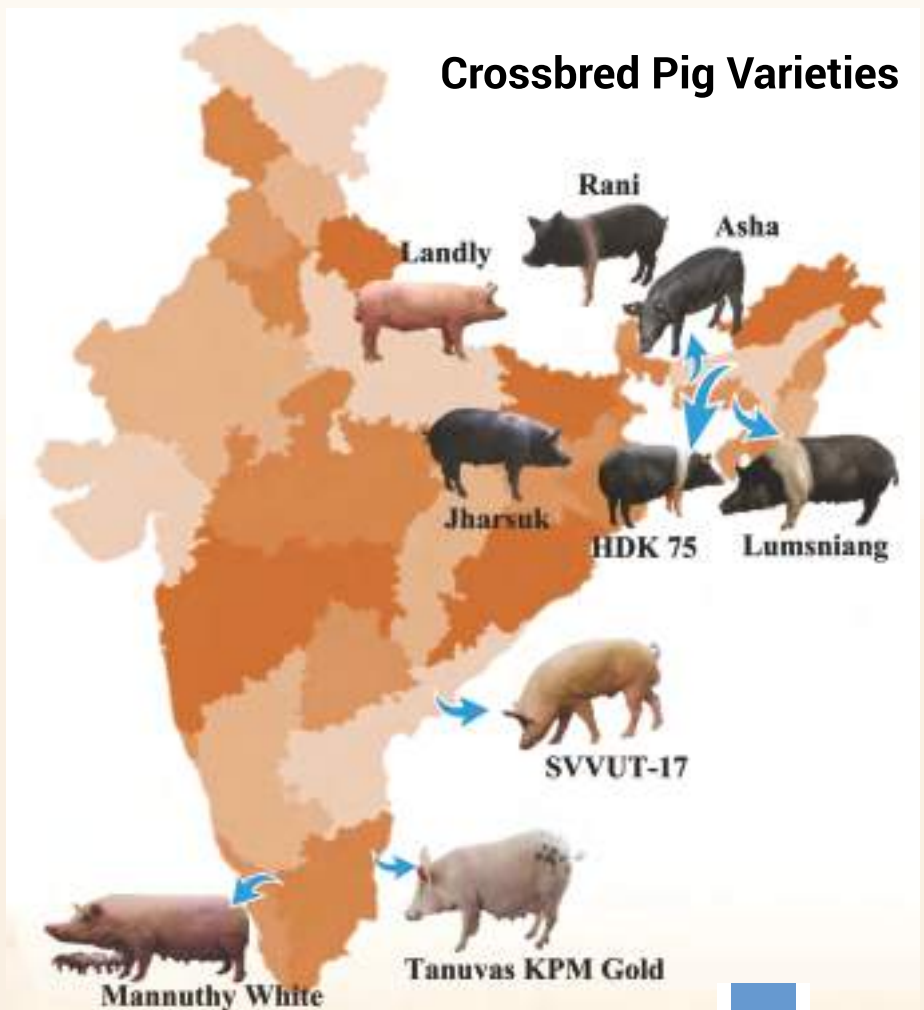
Indigenous Pig Wealth



Genetic Improvement and Indigenous Breed Preservation

The Centre's work on genetic cataloguing and performance appraisal of indigenous pig breeds has led to the development of improved varieties. These breeds are not only more disease-resistant but also provide better meat yield, enhancing productivity and farmer incomes. By focusing on sustainable breeding programs, ICAR-NRCP ensures the preservation and enhancement of local pig breeds while incorporating improved genetics to increase overall productivity.

Crossbred Pig Varieties





Integrated Farming System and Livelihood Support

One of the standout contributions of ICAR-NRCP has been the development of pig-based integrated farming system (IFS) technologies. These systems allow farmers to integrate pig farming with other agricultural activities like crop production and fish farming, creating a diversified and sustainable income stream. This integrated approach helps mitigate risks and enhances food and nutritional security for households.

Health and Disease Management

The Centre has made significant strides in disease management, ensuring that pig farmers have access to the latest veterinary care, vaccines, and disease control measures. By focusing on the health of the pigs, ICAR-NRCP has minimized losses due to diseases, leading to healthier animals, higher productivity, and greater profitability for farmers.

Product Processing and Value Addition

Through its research, ICAR-NRCP has contributed to the development of value-added pork products like sausages, bacon, and cured meats, opening new market opportunities for pig farmers. The promotion of pig-based food processing technologies has not only expanded the market for pork but also allowed farmers to enter profitable sectors of the food industry, thereby boosting their income.



Economic Empowerment and Poverty Reduction

The Centre's vision of enhancing pork production, generating employment, and reducing poverty among socially and economically weaker sections is being realized through the empowerment of rural communities. By providing technological backstopping and capacity building, ICAR-NRCP has improved the livelihood of countless farmers, particularly in the tribal regions of North East India, where pig farming is a vital economic activity.

Employment Generation and Community Development

ICAR-NRCP's efforts extend beyond just improving farming techniques. By fostering an ecosystem of skill development, training, and employment generation, the Centre has contributed to job creation in rural areas, particularly in the areas of pig husbandry, veterinary care, feed management, and product processing.

Sustainability and Environmental Considerations

ICAR-NRCP has consistently worked towards sustainable pig farming practices that minimize environmental impact, including the efficient use of resources like feed, water, and land. By promoting eco-friendly farming techniques and resource-efficient systems, the Centre ensures that pig farming remains a viable option for generations to come.



Contextual Background of Tribal Sub Plan

The Tribal Sub Plan (TSP) is a development plan designed to promote the socio-economic development of scheduled tribes in India. The TSP was introduced in the 5th Five Year Plan (1974-79) by the Government of India to ensure that the benefits of economic development reach the scheduled tribes, who are among the most vulnerable and marginalized communities in the country.

In the livestock sector, the genesis of the Tribal Sub Plan can be traced back to the 7th Five Year Plan (1985-90), which recognized the importance of animal husbandry and dairy sector in the overall socio-economic development of tribal communities. The plan emphasized the need for special attention to be given to the development of animal husbandry and dairy activities in tribal areas. Subsequently, the government launched several initiatives to promote livestock development in tribal areas under the Tribal Sub Plan. These initiatives included the establishment of veterinary clinics and animal health care centres, the provision of subsidized inputs like feed and fodder, and the creation of marketing infrastructure for livestock products. In recent years, the focus of the Tribal Sub Plan has shifted towards enhancing the income and livelihood opportunities for tribal communities through the promotion of entrepreneurship in the livestock sector. The government has launched several schemes and programs like the National Livestock Mission and the Pradhan Mantri Fasal Bima Yojana to support tribal farmers and entrepreneurs in the livestock sector. Overall, the Tribal Sub Plan has played a crucial role in promoting the development of livestock activities in tribal areas and in improving the socio-economic status of tribal communities in India.

Indian Council of Agricultural Research (ICAR) has been designated as a nodal agency to implement several programs targeted for the Schedule Tribe (ST) communities. ICAR through its different institutes can reach the tribal communities across the length & breadth of country. The funding under the Tribal Sub Plan is done mainly for, Animal husbandry, Backyard poultry, Dairy Development, Fisheries, Integrated farming system, Irrigation, Livelihood, Milk production, Post harvest value addition, Reducing food/ fodder and Income insecurity in highland tribal agro-pastoralists, Seed production, Vocational training etc. The capacity-building programmes on value addition and post-harvest management of agri-horticultural crops were initiated, and improved agricultural and animal husbandry practices, apiculture, goat breeding etc. were supported.

This document generally emphasizes the several developmental activities carried out through the TSP programs of the institute. Input distribution, training on different aspects of piggery, and farmers' field days for successful entrepreneurs/businesses are the main components of the program. This program offers a unique opportunity to touch and improve the farmers' livelihood in rural pockets of the North Eastern Region.



The people living in the North Eastern Region are mostly non-vegetarian and the tribal sub-section of the population relishes pork and pork products. Almost every family in this tribal area maintains a few pigs (3-10 nos.) to support their livelihood. About 40 % of the total pig population (9.06 million) of the country is in the North Eastern Region. The ICAR-National Research Centre on Pig, established in 2002, is situated in the tribal area at Rani in the District of Kamrup (Rural), 35 km away from Guwahati city. The institute is dedicating its services to the welfare of the tribal community with the mandate of bringing up excellence in pig production not only in the North Eastern Region but in the country as a whole where pig-loving populations are living.

Every year ICAR-NRC on Pig, Rani has extended its TSP support to the tribal community through different activities like capacity building programmes, awareness, exposure visits, technical guidance, distribution of pig feeds, supplements, medicines, vaccines, AI services etc. In the year 2018-19, Institute has conducted two trainings on 'Advance Pig Husbandry Practices' for tribal farmers coming from different parts of the country. Besides these, several pig health camps, field awareness programmes at different places, and exposure visit programmes have been organized by this Institute. A total of 39 pig health and awareness camps cum input distribution programmes were conducted during 2022-23 under TSP. A total of 230000 kg of pig feed was distributed among 2210 tribal beneficiaries of different villages of Kamrup, Nalbari, Baksa, Udalguri and Goalpara districts of Assam and Ri-Bhoi district of Meghalaya. Further, 05 trainings were organized to benefit 89 tribal youths and farmers. The institute is located in the tribal area of Rabha Hasong Autonomous Council. Therefore, all the institute activities are directly or indirectly related to the welfare of the tribal communities for which the budgets are streamlined.

Need Assessment and Preliminary Survey Report

Need assessment and preliminary survey are essential steps in the planning and implementation of any development project. These steps help to identify the actual needs and problems of the target community and to design an appropriate and effective intervention that addresses those needs

The importance of need assessment and preliminary survey in the livestock sector can be summarized as follows:

- i. **Identifying the needs of the community** : Conducting a need assessment and a preliminary survey helps to identify the actual needs of the community related to livestock development. This helps in designing an intervention that is relevant to the community's needs and is more likely to be effective.
- ii. **Understanding the existing situation** : Preliminary surveys help in understanding the existing situation of livestock development in the target area. This includes information on the types of livestock, their productivity, the current practices related to livestock rearing and management, and the market for livestock products.
- iii. **Identifying the constraints and opportunities** : Needs assessment and preliminary survey help in identifying the constraints and opportunities related to livestock development in the target area. Constraints may include lack of access to credit, inadequate infrastructure, and low levels of education among livestock farmers, among others. Identifying these constraints helps in designing an intervention that addresses these issues. Opportunities may include the availability of feed and fodder, the presence of a market for livestock products, and the potential for value addition.

- iv. **Engaging the community** : Need assessment and preliminary survey involve engaging with the community and understanding their perspectives on livestock development. This helps in building trust and confidence among the community members and ensures their active participation in the intervention. It also helps to ensure that the intervention is culturally appropriate and takes into account the local knowledge and practices related to livestock rearing and management.

Need assessment and preliminary surveys are important steps in the planning and implementation of any development project related to the livestock sector. These steps help in designing an appropriate and effective intervention that addresses the actual needs and problems of the target community.

Steps in Needs Assessment Process followed:

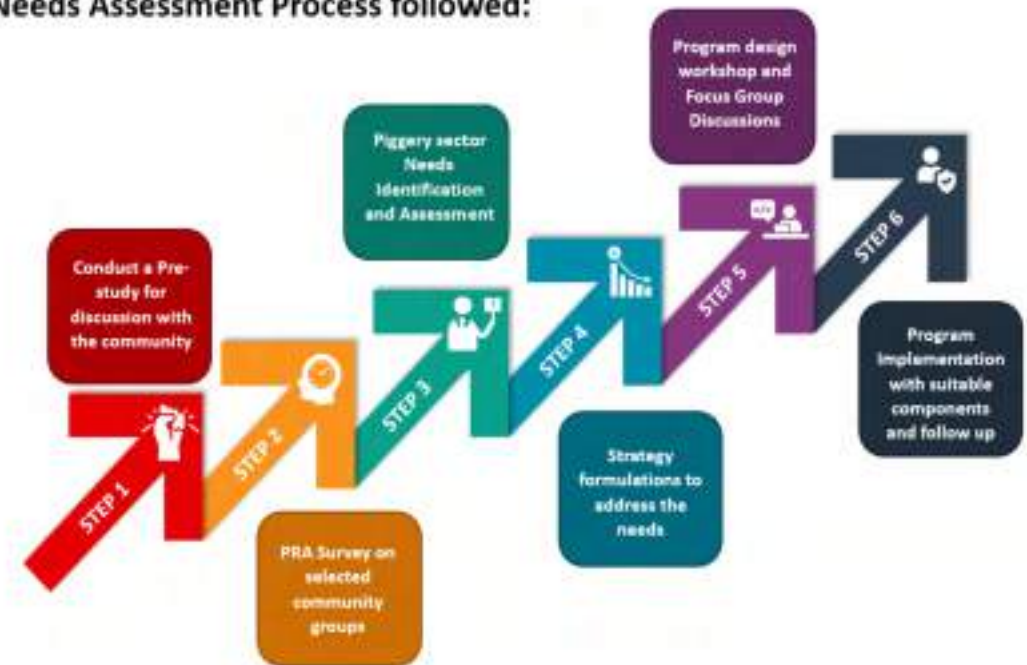


Fig:1- Steps in needs assessment followed for program design

We have followed the above-mentioned steps in designing a program and targeting a specific community for specific TSP interventions. We have conducted participatory rural appraisal programmes in several districts aimed at specific community groups. The needs identification and assessments were done by the experts from ICAR-NRCP and accordingly, a suitable program was designed. The different strategies were formulated for improving the piggery sector in the community as a whole and the inputs required were identified. After that with the active participation of local self-government like panchayat members, the input distribution cum awareness program was implemented in several areas. Field-based training was also conducted in several parts. Farmers were sensitized about the different health hazards and biosecurity measures of pig farming, proper management of farm sheds, effective nutritional scheduling and marketing opportunities.



Field Survey & Participatory Rural Appraisal

After the preliminary survey and needs assessment process, suitable inputs to be distributed were identified, according to the community needs in the piggery sector; suitable training (in-house/field-based) programs designed for enhanced capacity building of the farmers in different areas identified in consultation with the stakeholders; field days for proper field-based experience of the farmers in successful entrepreneur/enterprise, SHGs, FPOs or Govt. institutes.



Program	Aspects/Areas Related to Pig Farming
Input Distribution	Pig feed distribution, Medicine, Mineral mixture, utensils, materials used in pig farm like Gumboot etc.
Training	Disease management, Reproductive management, Health management, Farm management, Proper nutrition management, Govt. schemes and subsidies, livestock interventions.
Field Day	Visit commercial pig farms, business entrepreneurs, farmers field school visit.

Success Stories



Tribal Empowerment

through technical guidance on scientific pig production



Name of farmer : Bibari Rabha & Dheeraj Rabha
Address : Anguripara, Chotomara,
Dudhnoi, Goalpara, Assam
Location : 25.963873° N, 90.680122° E
Contact Number : 9101861344

Introduction

Mrs. Bibari Rabha and her husband Dheeraj rabha belong to the tribal community of the Goalpara district. They have 3 acres of land and were conventionally involved in paddy cultivation before starting a pig farm. After sensing the opportunities in pig farming, Dheeraj rabha participated in a Tribal Sub-Plan (TSP) sponsored training programme on pig husbandry at ICAR-NRC on Pig and started to practice pig farming more scientifically and profitably. The farm which initially started as a finisher unit has now grown into a breeder cum finisher unit.

ICAR-National Research Centre's Intervention

According to Mrs. Bibari, the tailor-made suggestions from the ICAR-National Research Centre on Pig from time to time were critical for their success. Bibari and Dheeraj routinely prepared pig feed from locally available resources under the guidance of scientists, which considerably reduced their cost of production. They received feed, mineral mixtures, a water pump for shed cleaning etc., in addition to the training through the TSP programme of ICAR - National Research Centre on Pig, Rani, Guwahati.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	6,00,000
2	Finisher	5,60,000
	Total	11.6 Lakhs

Achievements

The breeder unit of Mrs. Bibari produces almost 100-150 piglets every year which are supplied to different finisher units in and around the Dudhnoi region. Moreover, the feed preparation through locally available resources has maximized the profit. Through pig farming, Bibari and Dheeraj are earning an average annual revenue of 11.6 lakhs.



Integrated Pig farming

Pig husbandry-based integrated pig unit



Name of farmer : Anamika Rabha

Address : Kachubari, Ambuk, Madang
Part-2, Goalpara, Assam

Location : 25.97179° N, 90.976839° E

Contact Number : 9101402078

Introduction

Mrs. Anamika Rabha started her pig farm in the year 2019 with Large White Yorkshire and Rani piglets. She has a pig farm with 19 breedable females, 2 boars, 60 growers and 42 piglets. In addition to pig farming, Anamika along with her husband Likhit Rabha started banana and vegetable cultivation utilizing the effluent slurry from the farm. Recently they ventured into fish cultivation in her adjacent pond using pig manure as fish feed.

Integrated pig farming has yielded substantial returns, with earnings stemming from various avenues. She produced on an average 128 piglets and sold 20-30 finishers during the period.

ICAR-National Research Centre's Intervention

The technical inputs through the awareness camps organized under the Tribal Sub-Plan (TSP) programme helped her to practice pig farming more scientifically. Moreover, she received inputs like pig feed, water pump, biosecurity kits and mineral mixtures through the TSP programme of ICAR-National Research Centre on Pig. The farm has implemented strict biosecurity measures under the guidance of scientists from the institute, which helped to protect her stock from African Swine Fever disease.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	5,20,000
2	Finisher	3,60,000
3	Banana cultivation	40,000
4	Vegetable cultivation	30,000
	Total	9.50 Lakhs

Achievements

The integrated pig farming model involving banana cultivation, vegetable cultivation and fish farming has added profit to her enterprise. The major achievement was the prevention of African Swine Fever incidence on her farm by adopting strict biosecurity measures. She is able to earn 9.50 lakhs as average annual revenue.



The Resurrection

of a flood-devastated family through pig farming



Name of farmer : Rashmi Boro
Address : Nakuchi, Moranjana, Rangia
Assam
Location : 26.405007° N, 91.644792° E
Contact Number : 9613322681

Introduction

Residing in a flood-prone region of Assam, Rashmi Boro and her family faced limited livelihood options. In 2019, recognizing the necessity for alternative income sources, Rashmi embarked on pig farming, a decision she regards as profoundly astute. Her pig farm consists of 7 breedable females, 2 boars, 23 growers, and 12 piglets.

At first, she initiated her endeavour with a backyard pig farming setup. Concerned about flood hazards, she invested her earnings from pig farming into erecting a sturdy, permanent pig shed. Demonstrating keen business insight, Mrs. Boro swiftly identified the market's inclination towards desi black pigs. Currently, she dedicates her efforts solely to the production of indigenous desi pigs, with the piglets and finishers from her farm consistently commanding high demand in the market.

In the year 2022, she successfully sold 50 piglets and 12 finisher pigs. From being previously ravaged by floods, the family now enjoys prosperity, with the income from pig farming covering their household expenses and enabling their children's education.



ICAR-National Research Centre's Intervention

Mrs. Boro received pig farming accessories like utensils, biosecurity kits, mixer grinder etc through the Tribal Sub-Plan of ICAR-National Research Centre on Pig. She was also a beneficiary of the Tribal Sub-plan (TSP) sponsored pig feed and mineral mixer distribution programme. Through the TSP-sponsored awareness camp conducted by ICAR-NRC on Pig, she received technical inputs to improve pig production practices.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	2,00,000
2	Finisher	3,00,000
	Total	5 Lakhs

Achievements

The pig farm established by Rashmi Boro in the flood-affected area empowered her to provide livelihood to the family. Her finisher cum breeder farm of indigenous/desi pigs can produce 12-15 finishers and 50 piglets annually. She can generate almost 5 lakh rupees in returns through pig farming every year.



Transforming Lives

the inspirational journey of a tribal youth



Name of farmer : Shankar Boro

Address : Nakuchi, Maranjana, Rangia
Assam

Location : 26.405015° N, 91.64499° E

Contact Number : 8011915181

Introduction

Shankar Boro, a matriculation-passed tribal youth from Rangia turned to pig farming after trying different jobs for livelihood. With limited land and capital available, he started pig farming in 2020 after attending an awareness camp organized by ICAR-National Research Centre on Pig at Rangia. He is a beneficiary of the TSP programme and received pig feed, mineral mixtures and farm utensils for beginning the farm. Presently he has 5 breedable females and two desi boars. During the last year, he was able to produce 20 piglets and 18 finishers from his pig unit. He hopes to upgrade the pig shed and expand his piggery unit in the coming years utilizing the profit from pig farming.

ICAR-National Research Centre's Intervention

Shankar Boro initiated pig farming under the guidance of the ICAR-National Research Centre on Pig, through the outreach programmes like awareness camps. In the initial stages, he was supplied with pig feed, supplements and farm accessories through the TSP programme.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	80,000
2	Finisher	4,50,000
	Total	5.3 Lakhs

Achievements

Efforts of ICAR-NRC on Pig to popularize pig farming have provided employment and a regular source of income for this rural tribal youth. He can supply 20- 30 piglets to nearby finisher units every year and sells about 20 finishers to pork markets. The enterprise generate more than 5 lakh rupees annually.



Zero-Budget pig farming

for achieving economic independence & sustainable livelihood



Name of farmer : Champa Boro

Address : Nakuchi, Rangia, Assam

Location : 26.405433° N, 91.644722° E

Contact Number: 6001780237

Introduction

Champa Boro, a tribal housewife with just one bigha of land depended on paddy cultivation for her livelihood. Due to the repeated floods, her life was seriously affected. Moreover, due to the scarcity of capital and land availability, she was not able to find any alternative source of income. It was in the year 2021, that she attended an awareness camp of the ICAR-National Research Centre on Pig at Nalbari, which motivated her to start a finisher pig unit.

Presently, she has 5 growers and 5 finishers in her pig unit. Mrs Champa Boro practices zero-budget pig farming. She feeds her indigenous pigs with agricultural by-products and kitchen wastes. She cooks the biomass of animal origin before feeding. Mineral mixtures supplied by the ICAR-National Research Centre on Pig are also regularly fed to the pigs. She utilizes dried pig manure in the crop cultivation in her field. This farming practice has helped her to earn enough profit for her family from almost zero financial inputs.

ICAR-National Research Centre's Intervention

The regular technical advice and motivation, from scientists of ICAR-National Research Centre on Pig, have helped her to set up a finisher unit with minimum investment. The feed formulations from locally available feed resources as suggested by the ICAR-National Research Centre on Pig were instrumental in maximizing profit for this small farmer. Pig feed, supplements and medicines were also supplied under the Tribal sub-plan (TSP) programme from time to time.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Finisher sale	3,25,000
	Total	3.25 Lakhs

Achievements

A flood-devastated tribal housewife with minimum resources in terms of capital and land availability was able to find a suitable income source for her livelihood by establishing a finisher pig unit. She was able to sell 15-20 finishers earning almost 3 lakhs rupees per year on an average.



Swine as Saviour

a tribal housewife's financial revival



Name of farmer : Mala Boro

Address : Moranjana, Rangia, Assam

Location : 26.404797° N, 91.646826° E

Contact Number : 9577942238

Introduction

A jubilant tribal housewife Mrs Mala Boro, who farms goats, ducks, and chicken, was thrilled while sharing her story of becoming more passionate about pig farming in recent days. She and her husband Chandan Boro maintains a pig breeder cum finisher unit of crossbred and indigenous pigs at Moranjana, Kamrup district. Pig farming has reaped rich benefits for her family, especially when all other agricultural operations failed due to climatic factors and market issues. As the market requirement for pork and piglets always remained high, she was able to make up all other losses through pig farming.

ICAR-National Research Centre's Intervention

Through the Tribal sub-plan (TSP) programme of ICAR-National Research Centre on Pig, pig feed and mineral supplements were supplied to Mala Boro. She was also a beneficiary of a health camp organized by the institute. She routinely performs vaccination against FMD and classical swine fever under the guidance of scientists from the ICAR-National Research Centre on Pig. She also received utensils and feed grinders through the TSP programme.



Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	87,500
2	Finisher	2,70,000
	Total	3.58 Lakhs

Achievements

The breeder cum finisher unit was able to produce and sell 25 piglets to the nearby finisher units. Pork production through the sale of 15 finisher pigs is also remarkable from this small unit. The unit is able to generate on an average annual revenue of nearly 3.5 lakhs thus supporting her family of 4 members financially when all other income sources plummeted.



Sustainable Success

an integrated approach to pig husbandry



Name of farmer : Ramakanta Rabha

Address : Salbari, Dhangargaon
Palasbari, Assam

Location : 25.998636° N, 91.430055° E

Contact Number: 93654424219

Introduction

Ramakanta rabha's success story is an inspiring example of the efficacy of integrating diverse farming activities to establish a sustainable and lucrative business model. In 2021, he started a pig farm, by upgrading his previous areca nut and banana cultivation.

He saw the potential in integrating various farming activities to create a circular economy and reduce waste. Ramakanta's pig production unit is integrated with horticulture and aquaculture, as well as with goat and duck farming. This integrated system allows him to use the offals from fish, goat, and duck slaughter as inputs for pig farming, which reduces waste and improves efficiency. In addition, he feeds his animals non-conventional feeds like colocasia and banana stem, which are both cost-effective and nutritious. The slurry from the pig sheds is directly fed to his cultivation plots where he grows areca nuts, bananas, and other vegetables. This approach to farming has allowed him to turn waste into a resource and create a closed-loop system that maximizes efficiency and reduces costs.

ICAR-National Research Centre's Intervention

Scientists from the ICAR-National Research Centre on Pig pay regular visits to guide the farmer. Under the Tribal sub-plan (TSP) programme, he received animal feed, a grinder, mineral mixtures etc. He routinely attends the awareness programmes organized by ICAR-NRC on Pig.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	2,55,000
2	Finisher	2,20,000
3	Banana cultivation	1,80,000
	Total	6.55 lakhs



Achievements

Ramakanth was able to establish a pig farm with 9 breedable females, and two boars in a short period. He presently has 8 growers in his pig unit and sold 11 finishers last year. During the first year, he was able to sell 47 piglets and in subsequent years he sells 75-100 piglets annually, which shows a progressive trend in his business. He is able to generate an annual income of almost 6.5 lakhs. Ramakanta's approach to farming has proven successful, and his farm has become a model for sustainable and profitable farming practices. He has not only increased his income but also created a sustainable livelihood for himself and his community. His story shows that with innovative thinking and a commitment to sustainability, success can be achieved in even the most challenging of circumstances.



Nurtured by Knowledge

a farmer's success through ICAR-NRCP's guidance



Name of farmer : Gopikanta Rabha

Address : Umsur, Huraguri, Mataikhar
Palashbari, Kamrup, Assam

Location : 25.943243° N, 91.543109° E

Contact Number: 9678839659

Introduction

Gopikantha Rabha, an unemployed youth from a scheduled tribe community with a keen interest in agriculture approached ICAR-National Research Centre on Pig to learn about pig farming. He had 4 bighas of land and was conventionally practising areca nut and turmeric cultivation. He attended a Tribal sub-plan (TSP) sponsored training programme from the ICAR-National Research Centre on Pig with a dream to venture into pig farming. During the initial phase in early 2021, he faced hiccups in the form of the non-availability of quality piglets for his farm. The institute's simultaneous support in the form of two breedable females was a boon during the time of adversity, as Gopikanta recalls now. His farm grew in size quickly; it produced almost 80 piglets in the last year alone, despite the African Swine Fever outbreak in and around the area. His breeding unit presently houses 3 pregnant females, a breeding boar, and 6 replacement stock.

The feeding is mainly based on commercially available pig feeds. To optimize the production costs, he is now incorporating locally available seasonal nonconventional feed resources like colocasia and cabbages, as per the scientific inputs from ICAR- NRC on Pig.



ICAR-National Research Centre's Intervention

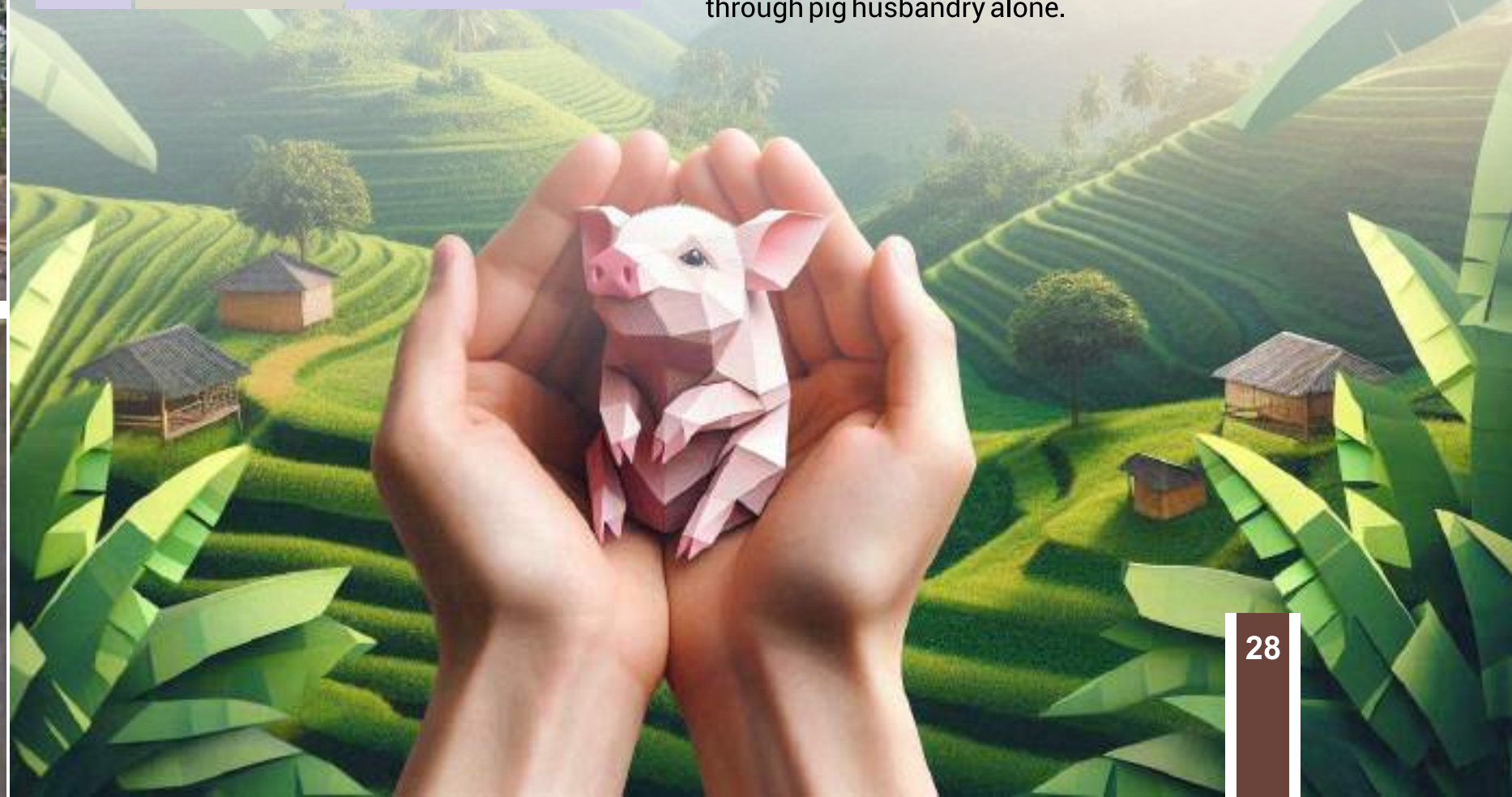
ICAR-National Research Centre on Pig has been constantly supporting this farmer to establish and successfully run pig production through technical inputs, animal distribution and feed supply under the tribal sub-plan. Field-level technology transfer in the form of non-conventional feed supplement formulations was successfully utilized by Mr. Gopikantha Rabha. The institute has also supplied mineral mixture packets in addition to a mixer grinder for feed preparation and supplementation.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	3,20,000
2	Finisher	30,000
	Total	3.5 Lakhs per year

Achievements

The growth of this tribal youth from humble beginnings has been tremendous. The pig husbandry is now the major component of the income source for his family. He is supplying quality Rani piglets to nearby pig units in his village. He is earning more than 3.5 lakhs per year through pig husbandry alone.





Tale of a **Textile engineer** turned pig breeder

Name of farmer : Chandra Rabha

Address : Umsur, Mataikhar , Palashbari
Kamrup, Assam

Location : 25.919911° N, 91.518699° E

Contact Number: 7896003495

Introduction

Chandra Rabha, a professionally qualified youth returned home from metros to the remote border village of Assam, Umsur - his native place, to take care of his lone mother in the year 2018. After initial research, he found pig farming as the most promising venture which could ensure better financial returns than his previous job. He established a pig breeder unit with technical inputs from ICAR- National Research Centre on Pig, Rani. He attended Tribal sub-plan (TSP) sponsored training programmes on Scientific Pig Production and Artificial Insemination from the institute. His initial strides were successful as a pig breeder. During 2021, at its peak, when he had 30 breeder stock and 150 piglets in sty, the ill-fated African swine fever outbreak happened and stamping out was done.

Mr. Chandra was quick to return to his senses after the massive loss; he re-established his farm with new stock after relocating the sheds and disinfecting the equipment. Tighter biosecurity protocols have been put in place under the guidance of scientists from the ICAR-National Research Centre on Pig. The biosecurity kit, gumboots, disinfectant sprayers etc were supplied to this farm under the TSP programme. Due to his consistent efforts and scientific interventions, the breeder unit produced 82 piglets in the next year, after reviving from the ASF outbreak. Presently his breeder unit has 4 sows and a boar and produces almost 100 piglets per year.



ICAR-National Research Centre's Intervention

ICAR-National Research Centre on Pig was instrumental in supporting the promising youth in his entrepreneurial journey by facilitating the technical guidance and for repopulating animals through supply of quality piglets. Technical guidance in areas of production, reproduction, health and entrepreneurship was provided. Under TSP inputs like feed, animals, mineral mixtures etc., were supplied. He was a beneficiary of the animal health camp at Umsur. During the post-ASF revival, a video graphics demonstration of biosecurity measures in scientific pig production was done and related technical literature was supplied. Moreover, biosecurity kits, gumboots, disinfectant sprayers etc., were supplied to this farm under the TSP programme.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	3,28,000
2	Finisher	3,40,000
	Total	6.68 Lakhs per year

Achievements

The farm entrepreneur established a breeder unit which can ensure a dependable source for the supply of quality piglets to pig production units of Umsur and nearby villages. Moreover, the post-ASF revival of his farm was scientifically done by establishing strict biosecurity protocols on his farm. He is generating an annual revenue of approximately 6.5 lakhs per annum through pig farming alone.



Learnings into Livelihood

success of human resource development initiative



Name of farmer : Sarbananda Rabha

Address : Nagaon, Mataikhar
Palashbari, Kamrup, Assam

Location : 25.91662° N, 91.52689° E

Contact Number : 8134873926

Introduction

Sarbananda Rabha and his wife Pallabi Rabha, live with their family spanning three generations in the serene hilly premises of Umsur. The family was conventionally practising the cultivation of areca nut, betel leaves and black pepper for livelihood. Mr. Sarbananda developed an interest in pig farming after attending an awareness camp on Pig farming organized by the ICAR-National Research Centre on Pig.

The pig farm is a breeder cum finisher unit with 3 sows, one boar, 2 finishers and 6 piglets, presently. Thanks to the revenue from pig farming, he was able to upgrade the Kutcha shed to Pucca sheds and is planning to expand the numbers soon. He also focuses on the health care and biosecurity of his pig farm. He regularly vaccinates and deworms his stock.

ICAR-National Research Centre's Intervention

Mr. Sarbananda, a tribal youth, was brought to pig husbandry through outreach initiatives of the ICAR-NRC on Pig. After attending a one-month training programme on scientific pig production at ICAR-National Research Centre on Pig, Rani, he stepped into pig husbandry in the year 2020. The technical guidance through the training programme has helped him to establish and run the farm. The institute has supplied health care supplies like mineral supplements, deworming tablets etc through the health camp. Through the tribal sub plan, pig feed was also supplied to the farmer. To reduce nutritional expenses he approached ICAR- NRC on Pig and adopted silage technology with locally available colocasia and tapioca for feeding pigs.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	44,000
2	Finisher	60,000
	Total	1.04 Lakhs per year

Achievements

ICAR-National Research Centre was able to empower marginalized rural youth through its training programme and continued support. This enabled Mr. Sarbananda to run the pig farming mainly by utilizing the locally available feed resources and leftovers. He could earn an additional annual income to the tune of approximately 1 lakh rupees through pig husbandry.



From Passion to Profit

a farmer's journey with limited investment



Name of farmer : Counterbok Thangkhe
Address : Umsung Village, Ri Bhoi,
Meghalaya
Location : 25.8851° N, 91.61783° E
Contact Number : 8374279871

Introduction

Mr Counterbok's success story in pig farming is a shining example of how even with limited capital investment, determination and right technical guidance, can lead to promising returns within a short period. His journey began when he got associated with ICAR-NRC on Pig through the Pig feed distribution programme organized under Tribal sub-plan (TSP). With valuable input and recommendations from

ICAR-NRCP, he established a pig farm in 2021, ensuring strict adherence to biosecurity measures, vaccination protocols, and deworming schedules. Currently, his farm boasts an impressive stock of 11 breedable females, 3 boars, and 19 finishers and sold approximately 81 piglets in one year. These numbers demonstrate the rapid growth and profitability of his venture.

ICAR-National Research Centre's Intervention

One of the key factors contributing to Mr. Counterbok's success is the consistent support he receives from the scientists at ICAR-NRC on Pig. Routine visits to his farm enable them to provide him with technical guidance and valuable inputs such as mineral mixtures, which are essential for maintaining the health and well-being of his pigs. This ongoing partnership ensures that he stays updated with the latest advancements and best practices in pig farming.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	2,02,500
2	Finisher	80,000
	Total	2.83 Lakhs

Achievements

As a result of his hard work, strategic planning, and collaboration with experts, he has not only achieved financial stability but has also become a source of inspiration for aspiring pig farmers in his community. His success story highlights the immense potential and profitability of pig farming, even with limited capital investment, and serves as a testament to the importance of seeking knowledge and guidance from established institutions like ICAR-NRC on Pig.



A Remarkable Journey

From traditional pig husbandry to thriving pig farming



Name of farmer : Jomping Gamu

Address : Patharkhmah, Umlakro
Village, Ri Bhoi, Meghalaya

Location : 25.885429° N, 91.617656° E

Contact Number : 575477863

Introduction

Mr. Jomping Gamu, belonging to the Khasi tribe of Meghalaya, was engaged in conventional practices for years. His life took a transformative turn when he attended an awareness camp organized by ICAR-NRC on Pig. Inspired by the

possibilities presented during the session, Mr Jomping embarked on a journey to expand his pig farming, armed with newfound knowledge on scientific pig production. Understanding the paramount importance of biosecurity, Mr Jomping meticulously followed protocols to safeguard his stock from diseases, especially the dreaded African Swine Fever (ASF). By thoroughly cooking of feed and adhering to other biosecurity measures, he managed to prevent outbreaks and protect his precious pigs. To minimize costs, he started feeding silages of seasonal byproducts like colocasia and cabbage. Jomping's relentless pursuit of success led him to become a recipient of pig feed, farm inputs, and mineral supplements through the Tribal Sub Plan (TSP). This support bolstered his operations, enabling him to focus on improving the quality of his livestock. In just this year alone, he has already sold more than 30 piglets. Building on his accomplishments, he has integrated piggery with duck farming, showcasing his adaptability and willingness to explore new horizons, maximizing the potential of his agricultural endeavours.

ICAR-National Research Centre's Intervention

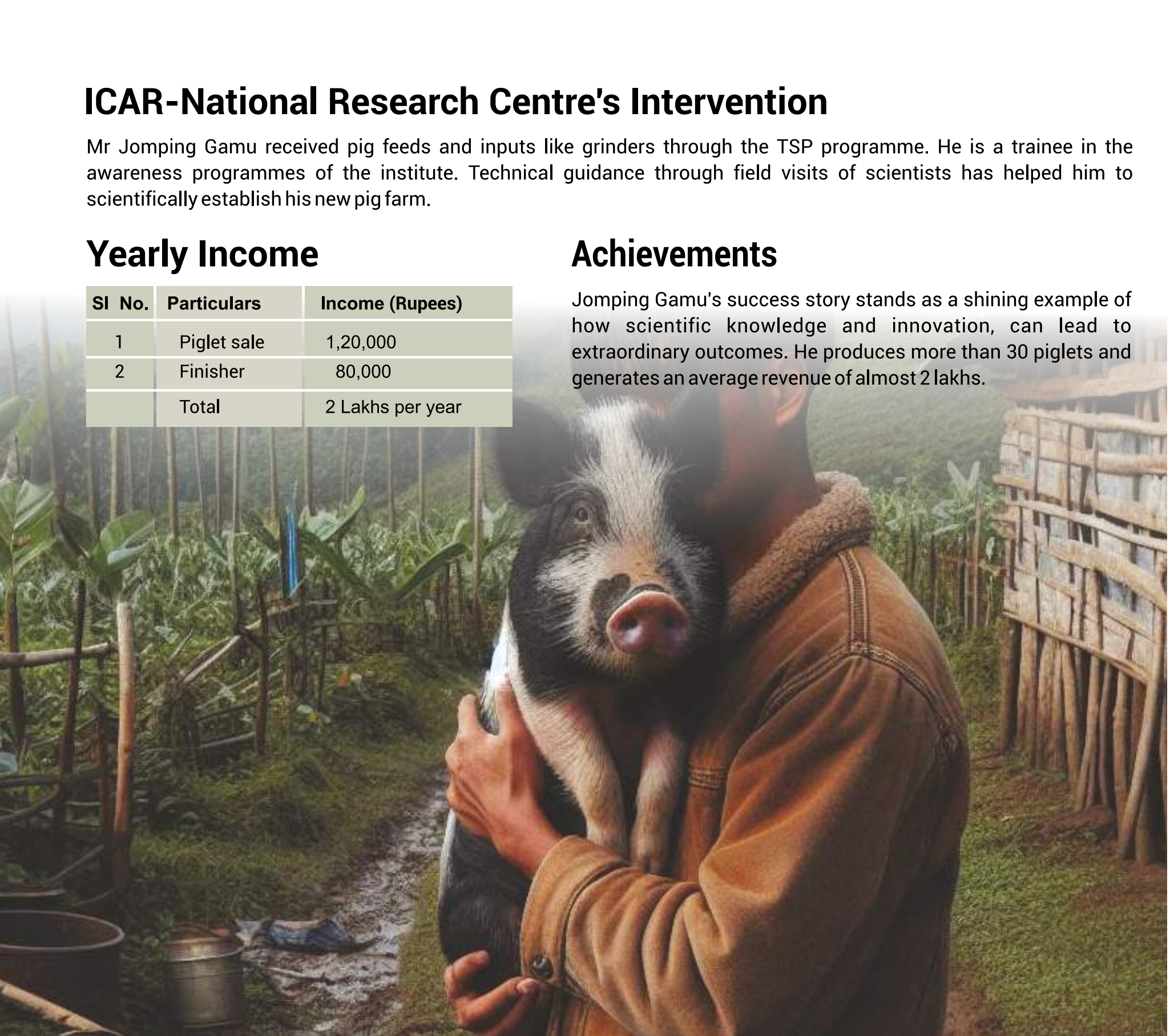
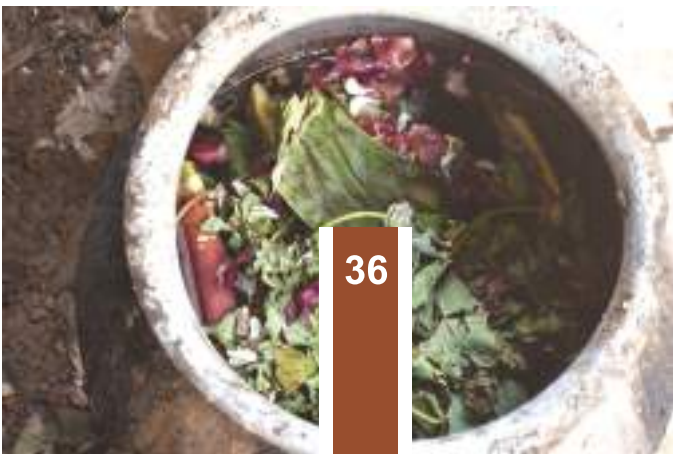
Mr Jomping Gamu received pig feeds and inputs like grinders through the TSP programme. He is a trainee in the awareness programmes of the institute. Technical guidance through field visits of scientists has helped him to scientifically establish his new pig farm.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,20,000
2	Finisher	80,000
	Total	2 Lakhs per year

Achievements

Jomping Gamu's success story stands as a shining example of how scientific knowledge and innovation, can lead to extraordinary outcomes. He produces more than 30 piglets and generates an average revenue of almost 2 lakhs.



Unleashing Nature's Bounty

Success in Zero Budget Natural Pig Farming



Name of farmer : Merison Sankli

Address : Patharkmah, Nongkhlaw
Syiemship, Ri Bhoi, Meghalaya

Location : 25.885387° N, 91.617669° E

Contact Number : 9612694200

Introduction

Step into the inspiring world of Mr. Merison Sankli, solid proof of the immense potential of zero-budget natural farming in pig husbandry. Together with his wife, Kamila Boro, and their eight-membered family, they reside in a secluded area, where they have cultivated various crops such as bananas, colocasia, areca nuts, and paddy. However, it is through pig farming that they have achieved their major source of income. Merison's approach to pig husbandry is truly exceptional, as he seamlessly integrates the inputs from his diverse cultivations and rears indigenous Niang Megha pigs. In an ingenious display of resourcefulness, he constructed pig sties using locally available bamboo, forest wood, and hill grasses. Embracing sustainability and self-sufficiency, he minimizes the use of medicines, opting for natural remedies whenever possible.

Although initially hesitant to adopt scientific practices such as vaccination and deworming, Merison's perspective changed when he received field visits from scientists at ICAR-NRC on Pig. Their guidance and expertise provided valuable insights, prompting him to incorporate scientific principles into his husbandry. With newfound awareness, he now implements biosecurity measures, ensuring the well-being and health of his cherished livestock. Utilizing locally available feed ingredients such as rice, rice bran, bananas, and colocasia, he prepares nourishing meals for his pigs. Each component is cooked together, resulting in a balanced diet that maximizes the nutritional benefits. By harnessing the natural resources within his reach, he not only minimizes costs but also enhances the overall quality of his produce.

ICAR-National Research Centre's Intervention

The institute is organizing health camps and awareness camps in his village under Tribal sub-plan (TSP). He is a recipient of farm inputs like grinders and mineral mixtures from the institute.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,22,500
2	Finisher	2,89,000
	Total	4.115 Lakhs per year

Achievements

Mr. Sankli's story exemplifies the power of zero-budget natural farming, showcasing the incredible results that can be achieved by working harmoniously with nature. Presently, Merison manages three breeding sows and a boar, which have become the foundation of his thriving pig farming enterprise. Over the past year, he has sold 17 finished pigs, generating a steady income. Additionally, during the preceding year, his dedication and expertise allowed him to sell a remarkable 35 piglets, further cementing his position as a successful pig farmer.



An Inspiring Tale

of motivated rural youth to sustainable income through piggery



Name of farmer : Mangerous Marak

Address : Patharkmah, Ri Bhoi
Meghalaya

Location : 25.88585° N, 91.622938° E

Contact Number : 9366685976

Introduction

The story of Mr Mangerous Marak, a 12th-pass youth from Patharkmah - Meghalaya, is about a motivated youth who transformed his life and that of his family. While he indulges his passion for bikes

through his bike remodelling workshop, it is his pig farm that has emerged as a dependable and sustainable source of income. With five breedable females on his farm, Mangerous has embraced scientific pig farming practices to ensure optimal productivity and profitability.

A key element of his success lies in the support and guidance he receives from scientists at ICAR-NRC on Pig. Through the field day program organized under the Tribal sub-plan (TSP), scientists visit his farm. Their visits serve as a source of motivation and learning, empowering Mangerous to continually improve his farming practices. He was also introduced to maize cultivation, as a feed ingredient for his pigs. The maize cultivation not only reduces costs but also ensures the availability of nutritious food for his livestock.

ICAR-National Research Centre's Intervention

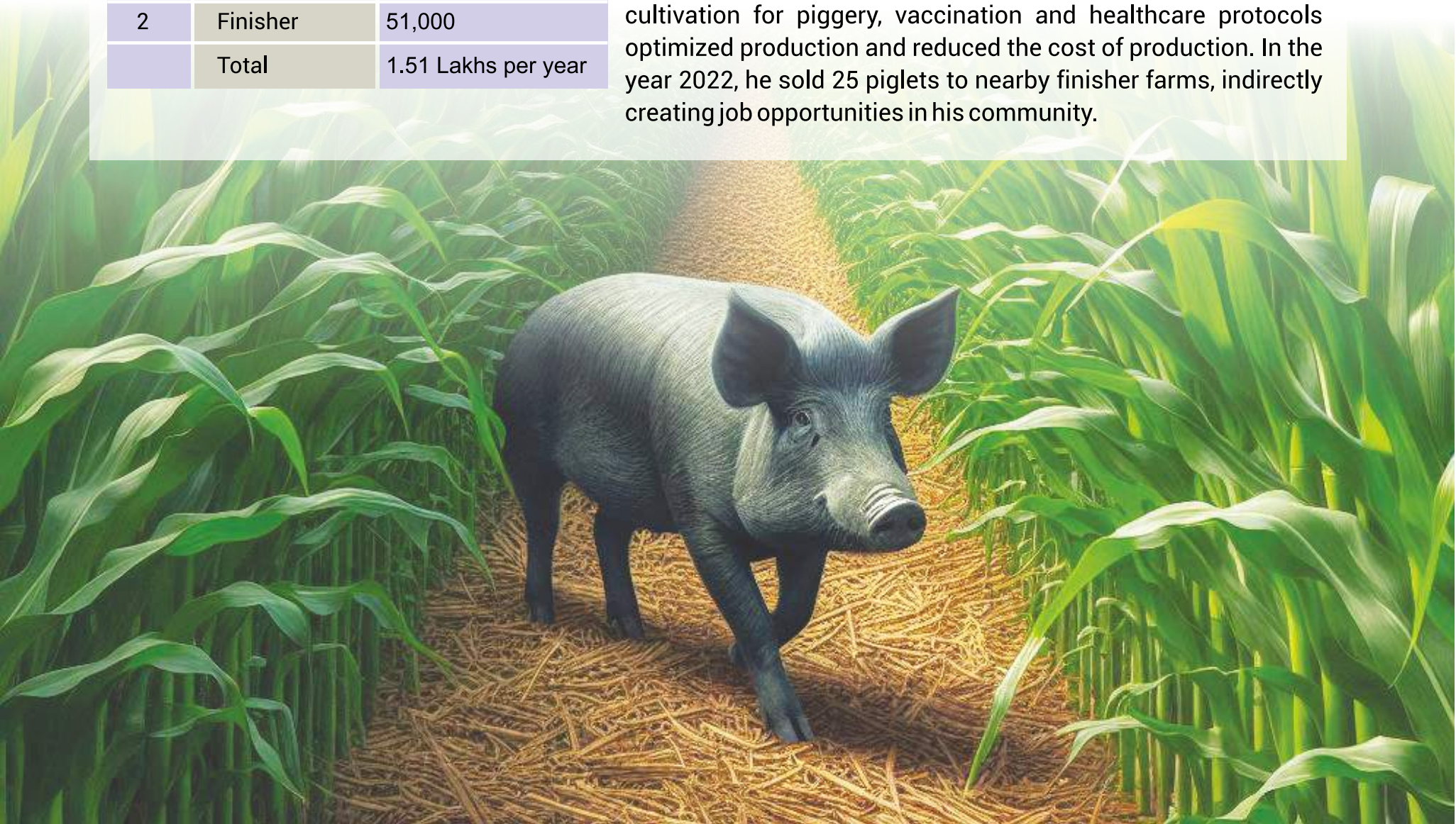
The institute has supplied mineral supplements during farm visits to his farm. He is a recipient of animal feed under TSP. Farm inputs like grinders were supplied to the farmer. The scientists provide technical guidance to the farmer as and when required.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	1,00,000
2	Finisher	51,000
	Total	1.51 Lakhs per year

Achievements

Mr. Marak's story serves as an inspiration, demonstrating how piggery can provide a reliable and sustainable income source to rural tribal youth. His adoption of scientific practices like fodder cultivation for piggery, vaccination and healthcare protocols optimized production and reduced the cost of production. In the year 2022, he sold 25 piglets to nearby finisher farms, indirectly creating job opportunities in his community.



Resilience Rewarded

a progressive farmer's journey from adversity to success



Name of farmer : Phrelin Ripnar

Address : Patharkhamah, Ri Bhoi
Meghalaya

Location : 25.885664° N, 91.622956° E

Contact Number : 8837316306

Introduction

This is a remarkable story of Phrelin Ripnar, a progressive farmer hailing from the tribal village of Patharkhamah in Jirang, Meghalaya. Together with his wife, Pritimoi Marak, they previously relied on income from a countryside restaurant. However, everything changed when Phrelin discovered the untapped potential of pig farming, driven by market demand and the food preferences of his customers. Taking a leap of faith, Phrelin ventured into pig farming by leasing land, envisioning a prosperous future. Initially, things were going well until disaster struck in the form of an African Swine Fever (ASF) outbreak, resulting in the loss of his entire stock. Determined to overcome the challenges, he sought guidance from experts at ICAR-National Research Centre on Pig, recognizing the importance of professional advice to rebuild his farm.

Under the mentorship of the scientists, he implemented strict biosecurity measures to safeguard his pigs against future outbreaks. Regular sanitation and disinfection became routine practices, ensuring a clean and disease-free environment. Entry to the farm was tightly controlled, preventing any potential sources of contamination. Significance was given to vaccination, deworming, and other health protocols, prioritizing the well-being of his livestock. Phrelin's resilience and hard work paid off, as he rebuilt his pig farm from the ground up.

He has also ventured into aquaculture, duck farming, and mushroom cultivation, laying the foundation for future integration with his pig farming enterprise. As Phrelin looks toward the future, his integrated approach to farming showcases the potential for sustainable agriculture and economic growth.

ICAR-National Research Centre's Intervention

ICAR NRC on Pig assisted the young entrepreneur through technical guidance during times of adversity. Pig feed was supplied under TSP to help him progress during the stages of restarting his farm. Farm inputs like biosecurity kits, water pumps for cleaning purposes, grinders, and mineral mixtures were supplied under TSP programmes.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	1,00,000
2	Finisher	51,000
	Total	1.51 Lakhs per year

Achievements

Mr. Phrelin successfully recouped after the losses due to the ASF outbreak. Presently, he manages six breedable females and two boars, marking a significant achievement after the ASF outbreak. The farm has witnessed a remarkable production of 55 piglets, showcasing Phrelin's dedication and determination to overcome adversity.



Maximizing Profit

Through non-conventional feed resources



Name of farmer : Ratan Ramchiyari

Address : Odalguri, Laukhata, Simla
Baksa , Assam

Location : 26.711122° N, 91.209587° E

Contact Number : 8753996159

Introduction

Ratan Ramchiyari is a farmer with 5 bigha land who used to rely on paddy cultivation for his livelihood. He attended a TSP-sponsored awareness camp of the ICAR-National Research Centre on Pig and decided to start pig

farming after analysing the market opportunities. Presently, he has 8 sows, 2 boars, and 25 growers, producing more than 120 piglets per year. When he faced a major problem with high input costs for feed, the scientists from ICAR-NRC on Pig briefed him about non-conventional feed resources. He started incorporating seasonal vegetables and agricultural by-products like cabbage, rice bran, etc., which optimized the costs of feed and improved the quality of meat. Moreover, Ratan started vaccination and deworming of his pigs as per the guidance from ICAR-NRC on Pig. This not only improved the health of pigs but also reduced his expenses on veterinary care. Today, Ratan's pig farming business is thriving, thanks to the guidance and support he received from ICAR-NRC on Pig. Ratan's success story illustrates the benefits of adopting best practices in piggery and seeking guidance from experts to improve the profitability and sustainability.



ICAR-National Research Centre's Intervention

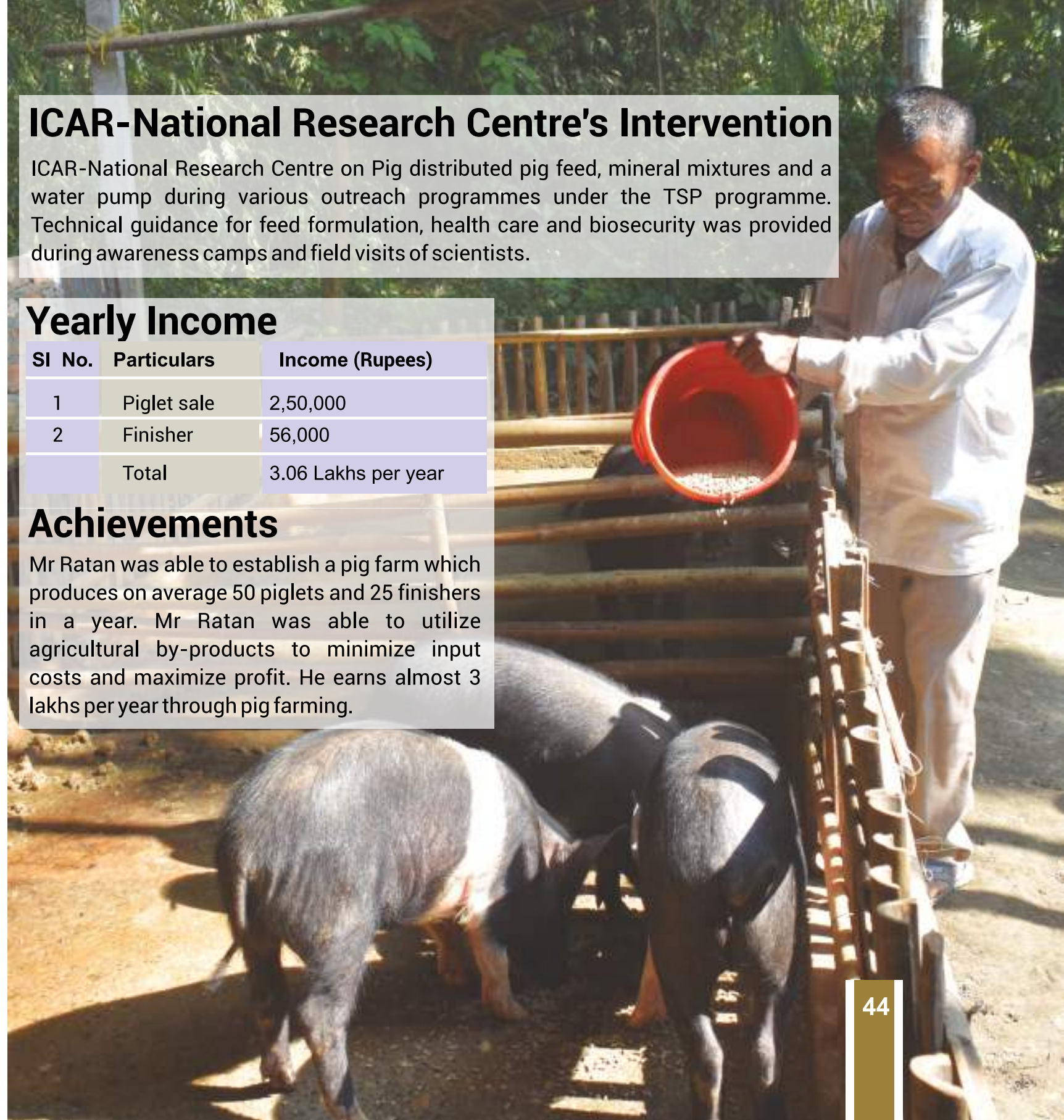
ICAR-National Research Centre on Pig distributed pig feed, mineral mixtures and a water pump during various outreach programmes under the TSP programme. Technical guidance for feed formulation, health care and biosecurity was provided during awareness camps and field visits of scientists.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	2,50,000
2	Finisher	56,000
	Total	3.06 Lakhs per year

Achievements

Mr Ratan was able to establish a pig farm which produces on average 50 piglets and 25 finishers in a year. Mr Ratan was able to utilize agricultural by-products to minimize input costs and maximize profit. He earns almost 3 lakhs per year through pig farming.



Employment Generation

of rural youth through capacity building



Name of farmer : Lwmshar Basumatary

Address : Bhehguri, Barghara, Simla,
Baksa, Assam

Location : 26.709773° N, 91.17315° E

Introduction

Lwmshar Basumatary's tale exemplifies the power of education and commitment. When he joined the TSP-sponsored residential capacity building programme at ICAR-National Research Centre (NRC) on Pig, he had no idea that it would change his life forever. The training program opened his eyes to the potential of the sector and gave him the skills and knowledge he needed. He successfully introduced pigs to his farm and integrate them into his existing farming practices. But Lwmshar didn't stop there. He began formulating pig feed, ensuring that his pigs received the highest quality nutrition possible. The farm has earned reputation as source of good-quality, healthy pigs, and commands premium prices. Lwmshar's story is a shining example of what can be achieved with the right knowledge, skills, and determination.

ICAR-National Research Centre's Intervention

ICAR-NRC on Pig organized capacity building programme was the cornerstone of his achievements. He was a beneficiary of TSP sponsored pig feed distribution programme. He also received mineral supplements, farm utensils etc. during field visits by scientists from ICAR-NRC on Pig,

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,50,000
2	Finisher	2,50,000
3	Banana cultivation	90,000
	Total	4.90 lakhs

Achievements

Lwmshar established a diversified agricultural practice with the help of ICAR-NRCP which provided him employment for the sustainable livelihood of his family. The farm generated 4.9 lakhs annual revenue.



Growing Beyond Traditional Farming

journey to sustainable income through pig farming



Name of farmer : Jatin Basumatary
Address : New Bhehguri, Keklabari,
Barpeta, Assam
Location : 26.709736° N, 91.173024° E

Introduction

Jatin Basumatary's success story is a true inspiration for those looking to explore new opportunities in agriculture. Before starting his pig farm, Jatin had been growing mustard on his 4 bhiga of land. However, the income from his conventional farming practices was not dependable due to seasonal variations. In September 2020, Jatin attended an awareness camp organized by the ICAR-National Research Centre (NRC) on pigs under the TSP program. It was at this event that he discovered the potential of pig farming and decided to start his pig farm. He began with just 4 Hampshire pigs, but with the help of the knowledge and skills he had gained from the awareness camp, he was able to make steady progress.

Jatin's decision to venture into pig farming proved to be a wise one. The pig farm has provided a steady source of income for him and his family. He received support from the ICAR-National Research Centre on Pig under TSP-sponsored outreach programs in the form of farm utensils, pig feed, and mineral supplements. With the support he received, Jatin was able to expand his pig farm and now has 5 breedable females and one boar. He has also produced almost 75 piglets and a few castrated males. The steady income from his pig farm has helped him provide a better standard of living for his family. In conclusion, Jatin's success story proves that with the right support and guidance, even those with limited resources can achieve great success.

ICAR-National Research Centre's Intervention

Jatin started his pig farm after attending an awareness camp organised by ICAR -NRC on Pig. In addition to the continued technical support, the institute also provided farm inputs like farm utensils, pig feed, and mineral supplements through TSP-sponsored outreach programmes.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,25,000
2	Finisher	50,000
3	Banana cultivation	50,000
	Total	2.25 lakhs

Achievements

Through pig farming, Mr. Jatin was able to find a dependable regular source of income for his family. He produced 75 piglets from his farm to date, which were supplied to nearby farmers having finisher units, thus indirectly creating more job opportunities in his community.



Knowledge as Power

kapil's path to success



Name of farmer : Kapil Basumatary
Address : Dihira, Barghara,
Patacharkuchi, Assam
Location : 26.72679° N, 91.193062° E

Introduction

Kapil Basumatary's success story is a remarkable example of how adopting scientific pig farming practices can lead to substantial cost savings and better yields. Kapil, belonging to the marginalized scheduled tribe community, had been practising conventional pig farming and paddy cultivation before he attended a TSP-sponsored awareness camp. At the camp, Kapil learned about the benefits of using non-conventional feed preparation using tapioca and potatoes. He also learned about the silage technology of ICAR-NRC on Pig, which would help him reduce his input costs while increasing his yield. He decided to adopt these new practices and techniques.

Soon after, an outbreak of African swine fever (ASF) affected most of the nearby farms. Kapil was worried about his farm's safety and approached ICAR-NRC on Pig for assistance. The institute provided him with a bio-security kit and information bulletins on how to prevent ASF from affecting his farm. Kapil also watched videographics demonstrations prepared by the institute to ensure that he was implementing the biosecurity measures correctly. Kapil's adoption of scientific pig farming practices and biosecurity measures paid off. He was able to produce healthy pigs with the help of non-conventional pig feeds, which helped him cut down on his input costs substantially. His farm was also safe from ASF, which helped him avoid any disease incidence. In conclusion, Kapil's success story is a remarkable example of how learning and implementing new practices, has helped a farmer to transform his farm into a profitable and sustainable venture.



ICAR-National Research Centre's Intervention

Mr. Kapil gratefully acknowledges the ICAR-National Research Centre on Pig for the technical guidance and inputs received. He was a beneficiary of TSP sponsored feed distribution programme. He received a mixer grinder and mineral mixtures during field visits. Through the awareness programme, he gained technical knowledge about alternative feed resources for his piggery, which helped him to reduce the input costs substantially.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	6,20,000
2	Finisher	92,000
	Total	7.12 lakhs

Achievements

He was able to sell 80 piglets and 25 castrated male growers. Moreover, he was able to prevent the incidence of ASF by adopting strict biosecurity measures. The utilization of agricultural by-products for minimizing input costs is successfully practised on his farm.



Diversifying Income

a success story in pig farming



Name of farmer : Arga Boro

Address : Nabudhira, Koklabari, Assam

Location : 26.725105° N, 91.182988° E

Introduction

Arga Boro's success story is a tale of how a small-scale farmer can successfully diversify their income through pig farming. Before 2020, Arga had only 1-2 pigs reared in his backyard while mainly focusing on paddy and mustard cultivation. Attending an awareness camp organized under the Tribal Sub-Plan programme of ICAR-NRC on Pig, convinced him to rapidly scale up his production. Today, Arga has 16 breedable females and 2 boars on his farm, with 10 females currently pregnant. He sells almost 75 - 100 piglets a year. Additionally, he produces finishers; nearly 15 sold annually. Arga's success story highlights the importance of education and ability to analyze market trends, to make informed decisions in agriculture.

ICAR-National Research Centre's Intervention

ICAR-National Research Centre on Pig has provided technical guidance through field visits and Awareness camps. He was a beneficiary of TSP-sponsored pig feed and farm input distribution programmes.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	3,75,000
2	Finisher	1,98,000
	Total	5.73 lakhs

Achievements

Mr. Arga successfully diversified his income by scientific pig rearing. He was able to produce 75 piglets, which would eventually provide employment opportunities to finisher farms of his community.



Revolutionizing Pig Farming

the success of bio-security measures



Name of farmer : Ganesh Boro

Address : Karankata, Barghara,
Patacharkuchi, Assam

Location : 26.731791° N, 91.188589° E

Introduction

The story of Ganesh Boro portrays how implementation of biosecurity has helped a rural tribal farmer. When he started his pig farm, pig diseases were the major concern. Luckily, he had interactions with scientists from ICAR-NRCP through a TSP-sponsored awareness camp, where he learned about the importance of biosecurity. Mr. Ganesh implemented strict biosecurity measures. Sheds were even covered with mosquito nets to prevent Japanese encephalitis, a knowledge gained through training. When African Swine Fever outbreak caused casualties in nearby farms, he suffered zero loss. Taking his commitment a step further, Ganesh is now engaged in a form of contract pig farming called "Adhi" under his leadership, setting an example for others in his community.

ICAR-National Research Centre's Intervention

Ganesh Boro is a beneficiary of the TSP-sponsored awareness camp, input distribution programme and feed distribution programmes of ICAR-NRC on Pig. The institute helped the farmer to establish biosecurity measures and prevent disease outbreaks in his farm.



Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	3,50,000
	Total	3.5 lakhs

Achievements

Ganesh Boro established a breeder farm with 11 breedable females and produced almost 120 piglets in a year. His biosecurity measures were able to prevent the ASF outbreak on his farm.

Empowering Communities

the impact of ICAR-NRCP's outreach programmes



Name of farmer : Jadav Brahma

Address : Hazira para, Khamardazira,
Simla, Baksa, Assam

Location : 26.749766° N, 91.234402° E

Introduction

Jadav Brahma's success story is an inspiration to many farmers. As the secretary to the Bodoland Farmer Association and president of the Agricultural Producer's Cooperative Society, Jadav Brahma has 11 bhiga land where he cultivates paddy, and mustard, and grows fish in addition to pig farming. However, his success story lies in his pig farming. Thanks to the outreach programmes of ICAR- National Research Centre on Pig, Jadav Brahma was able to establish his farm in an organised way. He practices scientific pig farming with 9 breedable females, 2 boars, and 15 growers. In the last year alone, he produced almost 100 piglets. He maintains large white Yorkshire, Hampshire, along with Desi and its crossbreds.

But Jadav Brahma's success is not only limited to his farm. With the help of ICAR-NRC on Pig, he organized pig farmers of Baksha district to revolutionize the way they practised piggery. The series of awareness camps and health camps organized under TSP played a significant role in educating farmers on biosecurity, vaccination, and other preventive measures. During the ASF outbreak, the prompt intervention of ICAR-NRC on Pig minimized the losses of the farmers in this region. Jadav Brahma is thankful for the farm inputs like biosecurity kits during times of emergency. The animal feed supply helped them to tide over financially tough times. Jadav Brahma's success story is a testimony to the fact that with the right resources and guidance, farmers can achieve great success. His scientific farming practices and ability to organize and educate fellow farmers have transformed the pig farming industry in his district.



ICAR-National Research Centre's Intervention

ICAR-NRC on Pig organized pig farmers through Jadav Brahma while promoting scientific pig production practices in the Baksha district. The institute, under TSP, organized health camps, awareness camps etc. He is a beneficiary of input and animal feed distribution programmes.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	4,50,000
2	Finisher	1,52,000
	Total	6.02 lakhs

Achievements

Due to his leadership activities he was selected as the Secretary to the Bodoland Farmer Association and President of the Agricultural Producer's Cooperative Society. He was able to produce more than 100 piglets and earn more than 6 lakh rupees per year through pig farming.



Transforming Destiny

the inspiring success story of a tribal woman



Name of farmer : Rina Daimary

Address : Thebarmur, Jhala block,
Baksa, Assam

Location : 26.7364° N, 91.232388° E

Introduction

Rina Daimary's journey began with a dream to earn a stable income for her family, which led her and her husband, Mr Balen Boro, to start a pig farm in 2022. Before embarking on their new venture, Rina and Mr. Boro attended awareness programs conducted by ICAR-NRC on Pig under the TSP to learn the best practices in pig husbandry. They also availed loans to construct pig shelter and purchase of piglets. They started with Ghongroo pigs, and over time, their farm has grown to 11 breedable females and two boars. The farm has separate facilities for farrowing, growers, and boars. Biosecurity measures are implemented and cleaning & disinfection are done routinely. Deworming and vaccinations are religiously followed, and feeding of non-conventional nutritional sources like colocasia, banana stem, etc. are also explored. They also supplement Azolla for a better protein supply. She was able to sale 60 piglets in a year. Her commitment to scientific practices in pig husbandry has reaped financial success. Her example is a true motivation for aspiring women in her community.

ICAR-National Research Centre's Intervention

ICAR-National Research Centre on Pig provided farm inputs like pig feed, mixer grinders and mineral mixtures during various field visits. Mrs Rina has also attended the awareness camps organized under TSP.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	2,10,000
2	Finisher	40,000
	Total	6.02 lakhs

Achievements

Rina's success has not only brought economic stability to her family but has also inspired other women in her community to follow in her footsteps and start their ventures. Through the farm, she was able to produce 60 piglets in a short period and supply them to other pig farmers in her area.



Artificial Insemination

as a tool for successful pig farming



Name of farmer : Paramanada Boro

Address : Choudhani Ghat, Gobordhan,
Kamrup, Assam

Location : 26.0430067° N, 91.3560967° E

Contact Number : 9010926690

Introduction

Pramanada Boro's success story is about adopting new technologies in pig farming. In 2020, Pramanada started pig farming with conventional breeding practices. After learning about artificial insemination he started procuring semen doses from ICAR-NRC on Pig, where free semen doses are available for tribal farmers. The high-quality semen produced superior piglets with desirable traits. Presently, he has 4 breedable females and 11 finishers. With the increase in income, Pramanada was able to invest in his farm's infrastructure and provide better care for his pigs.



ICAR-National Research Centre's Intervention

He is a beneficiary of TSP sponsored awareness camp, animal feed distribution programme and animal health camp in his village organized by ICAR-NRC on Pig. Under the TSP programme shovel, water pump, gum boots and medical and technical support from time to time.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	63,000
2	Finisher	2,20,00
	Total	2.83 Lakhs per year

Achievements

Paramanada became a self-reliant pig farmer through the support of ICAR-NRC on Pig. He was able to grow elite germplasm through AI and has earned a name and fame through his elite stock.



Means of Rural Employment

generated through pig farming



Name of farmer : Pramod Boro

Address : Choudhani Ghat, Gobordhan, Kamrup
Assam

Location : 26.0433717° N, 91.3561433° E

Contact Number : 8638796597

Introduction

Mr. Pramod's success story reiterates the fact that with the right guidance and support, one can overcome any obstacle and achieve great success. After completing his higher secondary education, Mr. Pramod in search of a suitable job ventured into piggery, but he had constraints in rearing boars. For a solution, he approached ICAR-NRC on Pig and scientists visited his farm and suggested adoption of artificial insemination to optimize production. Along with AI, he started implementing scientific practices on his farm, such as proper sanitation, vaccination, and feeding management. As a result, his farm's productivity increased significantly. Currently, Mr. Pramod has 7 breedable sows, and he plans to expand his farm soon. Pramod's determination to find a solution to his problem and adopt new practices is truly inspirational.



ICAR-National Research Centre's Intervention

ICAR- National Research Centre on Pig provided technical guidance for the adoption of Artificial Insemination on his farm. Farm inputs like shovels, gumboots, water pumps, and nutritional supplements were provided under the TSP programme. Free AI doses were also provided as and when required.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	2,45,000
2	Finisher	48,000
	Total	2.93 Lakhs per year

Achievements

Pramod Boro was quick to ascend his farm to the level of a pig multiplier unit. He supplies piglets to nearby finisher units thus creating more job opportunities for others in his community.



Women Empowerment

through the use of assisted reproductive technology



Name of farmer : Manju Boro

Address : Nizbogai, Bamnigaon, Assam

Location : 26.00355° N, 91.3106017° E

Contact Number : 8473847725

Introduction

Mrs. Manju, belonging to an agrarian family, had paddy cultivation before venturing into pig farming as an alternative source of income. In 2010, when she started pig farming, piglet mortality was the major issue. She approached ICAR-NRC on Pig and scientists during farm visits suggested improvisations in farm management, introduction of quality germplasm and artificial insemination. Since 2018, she has been practicing AI using free semen doses under the TSP programme. Subsequently, the litter size and birth weight have improved tremendously. Reduced piglet mortality resulted in better returns. Determination to find a solution to her problem and willingness to adopt new technologies have made her venture successful, and provide a sustainable source of income for her family.

ICAR-National Research Centre's Intervention

The institute is supplying quality germplasm free of cost to the farmer. TSP offered farm supplies such as shovels, gumboots, water pumps, and mineral mixtures. The scientists from the institute pay regular visits to provide technical guidance regarding health care, reproductive management and scientific practices.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	2,10,000
	Total	2.1 Lakhs per year

Achievements

The farmer is presently having 6 sow units with 33 piglets and 2 finishers. She is proud to have the financial freedom to make independent decisions in her life, thanks to the income from her pig breeder unit.



Expanding Horizons

pig farming as a smart way to prosperity



Name of farmer : Bhaskar Rabha

Address : Batakhushi, Chhaygaon, Assam

Location : 26.0218083° N, 91.380710° E

Contact Number : 9678382799

Introduction

Bhaskar Rabha, a tribal farmer, had his family's income through multiple agricultural practices. His backyard pig farming faced challenges related to the productivity. He attended TSP sponsored training at ICAR-NRC on Pig. The knowledge changed fortunes and he started focussing on piggery as it fetched more financial returns. Through ICAR-NRCP, he received free semen doses for artificial insemination, health care support, biosecurity accessories and pig feed. With improved germplasm, Bhaskar's pigs have better growth and production performance, which has led to better returns. The success of Bhaskar Rabha's farm has also encouraged other farmers in his community to adopt AI and scientific husbandry practices.

ICAR-National Research Centre's Intervention

TSP distributed farm products such shovels, gumboots, water pumps, and mineral combinations. The institute's scientists make trips to provide technical advice on health care, reproductive management, and scientific practices. The institute provides quality germplasm free of cost.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,35,000
	Total	1.35 Lakhs per year

Achievements

Bhaskar Rabha was able to revive his farm after a massive loss due to the ASF outbreak by adopting scientific pig farming practices. Presently, his farm is having 7 breedable females, one boar and 14 piglets. He was able to supply 30 piglets to nearby farms.



Cultivating Dreams

a rural youth's diverse farm triumph



Name of farmer : Sushil Rabha

Address : Rahabari, Chhaygaon, Assam

Location : 26.0098167° N, 91.369225° E

Contact Number : 8638041115

Introduction

Sushil Rabha's story exemplifies the resilience and determination of a farmer in his success. Despite facing a devastating loss due to the African swine fever outbreak, he did not give up on his passion for pig farming. With the guidance and support from ICAR-NRC on Pig, he was able to re-establish his pig farm in a more organized way. The use of semen dose from NRC on Pig to multiply his stock helped him to optimize production and reduce losses. In addition to pig farming, Sushil Rabha also diversified his farming practices by incorporating duck and local poultry farming. This not only helped him to supplement his income but also ensured a more stable source of livelihood for his family.

His success story serves as an inspiration to many aspiring farmers, especially those who face setbacks and challenges in their farming journey. With hard work, determination, and support from experts in the field, anything is possible



ICAR-National Research Centre's Intervention

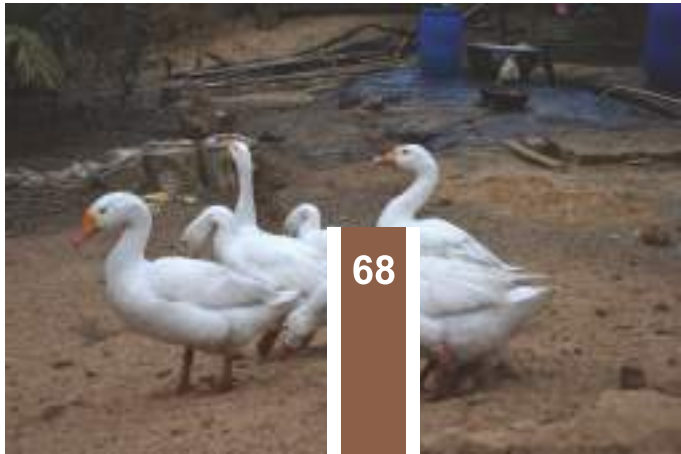
The institute is providing capacity-building programmes on pig farming and semen doses through the TSP programme. He is also a beneficiary of the input distribution programme wherein he received inputs like biosecurity accessories like gumboots, water pump for cleaning and sanitation, shovels etc.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	12,00,000
2	Finisher	5,40,000
	Total	17.4 Lakhs per year

Achievements

He was able to establish a multiplier unit which supplies almost 300 piglets in a year to the nearby finisher farms. Presently his farm has 16 breedable females 1 boar and 6 growers. He is able to generate an average annual revenue of Rs 17.4 lakhs. Moreover, through the production of piglets, he has generated employment opportunities for finisher pig farmers in and around his area.



From Farm to Fortune

a farmer's success story with ICAR-NRCP



Name of farmer : Sunil Ramchiary

Address : Choudupara, Baksa, Assam

Location : 26.7316617° N, 91.20432° E

Contact Number : 9678541374

Introduction

Mr. Sunil's success story is an excellent example of how training and guidance from ICAR-NRC on Pig can help farmers improve their livelihood. Mr. Sunil started his pig farming in the year 2000, and since then, he has been associated with ICAR-NRC on Pig. He participated in the TSP-sponsored training program on scientific pig farming and artificial insemination, which provided him with a solid foundation to build his farming skills. Through regular visits by scientists from ICAR-NRC on Pig, Mr. Sunil received technical guidance and advice on various aspects of pig farming, such as farm management, feed, and bio-security measures. Additionally, the institute provided him pig feed, piglets, biosecurity accessories, vaccination, and medicines, which helped him to improve the productivity of his farm.

Currently, he has six breedable females on his farm and produces almost 150 piglets in a year. With the help of the institute's guidance, Mr. Sunil has been able to establish a successful pig farming business, providing him with a stable income and a better livelihood.



ICAR-National Research Centre's Intervention

Scientists from ICAR -NRC on Pig provide regular technical guidance on various aspects of pig management. He receives semen doses free of cost from the institute. He is a recipient of inputs like pig feed, gumboots, water pumps, shovels and mineral supplements. Sunil Ramchiary is also a beneficiary of the piglet distribution programme under TSP.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	4,50,000
2	Finisher	1,20,000
	Total	5.7 Lakhs

Achievements

Sunil Ramchiary can successfully run a breeder unit without keeping boars by relying on semen doses free of cost, from ICAR-NRC on Pig. He produces on average 150 piglets per year.



Piggery as a Ray of Hope

during economic adversity



Name of farmer : Pankaj Kumar Borkochari
Address : Choudupara, Baksa, Assam
Location : 26.7316617° N, 91.204325° E
Contact Number : 9101560141

Introduction

Pankaj Kumar Borkochari, a determined individual from Choudupara, from marginalized tribal background had difficulties in normal vision and was struggling to find suitable employment. In the midst of the COVID-19 pandemic, Pankaj attended an awareness camp organized under the TSP program in his village. Inspired by the possibilities and driven by his entrepreneurial spirit, he decided to venture into the world of pig farming. With a humble beginning, Mr. Pankaj established a farm with five sows and one boar. Within a year Pankaj kick-started generating revenue through sale of 33 piglets, marking a remarkable achievement in a relatively short span of time. Pankaj's commitment to providing quality care to his animals and the careful selection of breeding stock contributed to the success of his pig husbandry venture.



ICAR-National Research Centre's Intervention

The initial guidance from ICAR- NRC on Pig through awareness camps during a TSP programme has helped him to start farming. He is a beneficiary of the pig feed distribution programme under TSP. He receives mineral mixtures during field visits by scientists of the institute.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	75,000
	Total	75 thousand

Achievements

Pankaj was able find a sustainable source of income and employment, when all businesses were struggling economically during the challenging period of the COVID outbreak. Through pig breeding unit, established with limited capital investment, he was able to distribute quality germplasm to the nearby pig farmers.



Scientific Breeding Sustainable Success



Name of farmer : Sambaru Basumatary
Address : Hazirapara, Baksa, Assam
Location : 26.73364° N, 91.20159° E
Contact Number : 9957985498

Introduction

Sambaru Basumatary and his wife Nilaishri Boro are proud owners of a thriving pig farm located in Hazirapara village. They have a breeder farm, of eight breeding females of Ghongroo, Large White Yorkshire and Hampshire breeds . His breeder stock produces an impressive number of piglets ie., almost 90 -100 piglets each year. Drawing upon their drive for continuous improvement, Mrs Nilaishri attended a training program on Artificial Insemination (AI) in pigs where she gained invaluable knowledge and adopted AI technique, allowing them to run the breeder unit without maintaining a boar. Now, Sambaru and Nilaishri have initiated to diversify their production by establishing a pig finisher unit. Diversifying production systems has strengthened their revenue streams and maximized profitability.



ICAR-National Research Centre's Intervention

Through the TSP programme, they have received feed and supplements, providing them with crucial support to lower their production costs and enhance their overall profitability. They are thankful for the informative sessions in awareness programmes, which enabled them to adopt scientific techniques for profitable farming.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	1,80,000
2	Finisher	2,50,000
	Total	4.3 lakhs

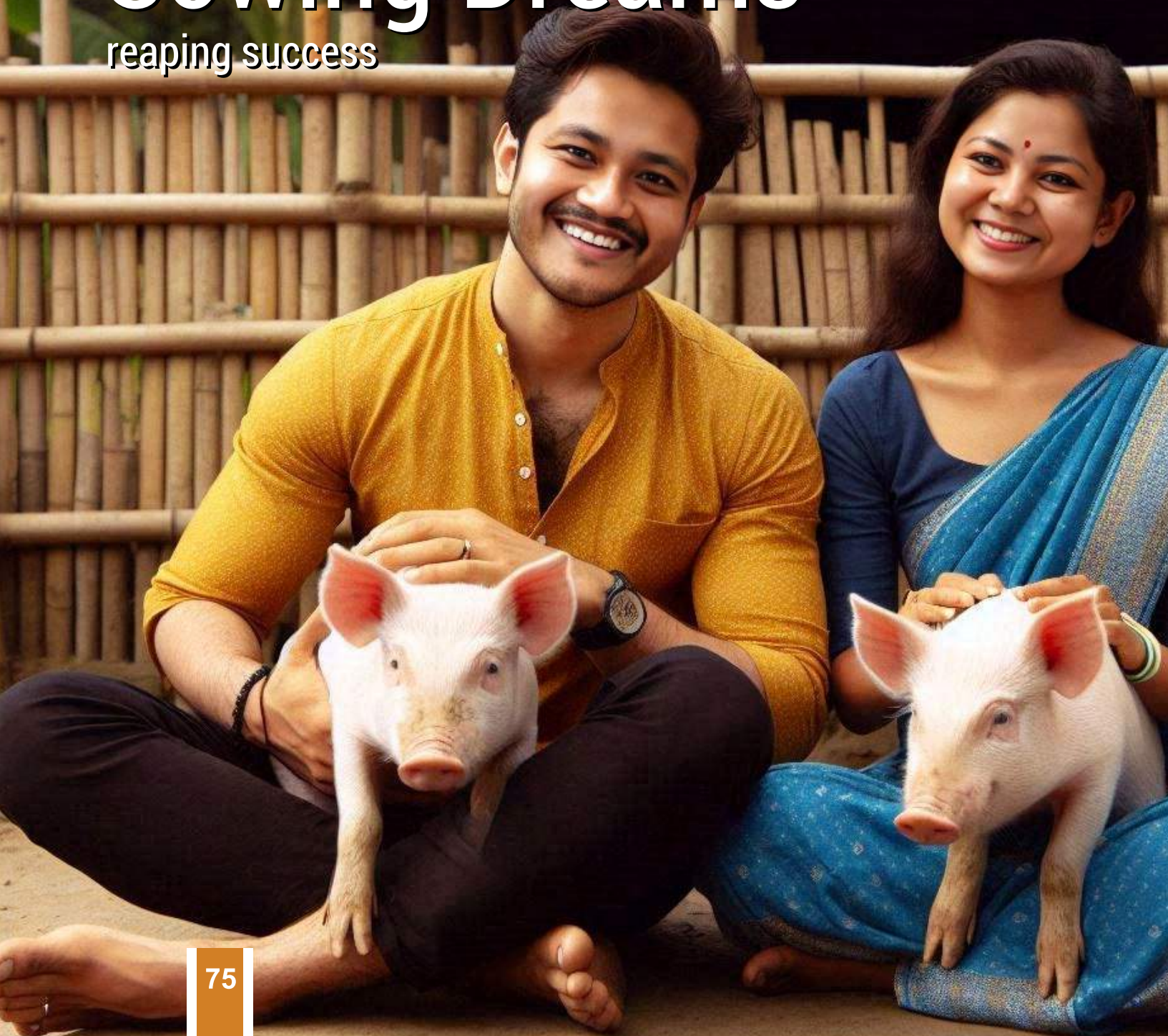
Achievements

Dwithun's efforts to diversify income and promote agriculture has motivated farmers and jobless youth to venture into pig husbandry. He is supplying quality piglets to small holder finisher pig units near his farm area, thus positively contributing to their livelihoods.



Sowing Dreams

reaping success



Name of farmer : Dwithun Goyari
Address : No.2 Koklabari, Jala block,
Baksa, Assam
Location : 26.75572° N, 91.21071° E
Contact Number : 9101046247

Introduction

Dwithun Goyari, a young B. Com graduate was fascinated by the market demand for pork. Alongside his wife, Mrs. Alaishri Basumatary, an assistant professor of English, they ventured into the world of piggery. While they had initial challenges in their enterprise, they swiftly overcame them with the technical guidance from ICAR-NRC on Pig, enabling them to implement scientific pig husbandry practices. Through the TSP-sponsored programmes, they got essential resources such as pig feed, mineral supplements and biosecurity kit. They were beneficiaries of farm visits by scientists, who provided valuable technical insights on formulating low-cost feeds using locally available resources, which helped their piggery to remain sustainable and cost-effective.

ICAR-National Research Centre's Intervention

The institute provided technical guidance for low-cost feed formulations from locally available agricultural bye products. Moreover, through TSP, farm inputs like biosecurity kits, pig feed etc. along with mineral supplements were supplied.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	1,20,000
2	Finisher	1,50,000
	Total	Rs 2,70,000

Achievements

Dwithun's efforts to diversify income and promote agriculture has motivated farmers and jobless youth to venture into pig husbandry. He is supplying quality piglets to small holder finisher pig units near his farm area, thus positively contributing to their livelihoods.



Metamorphosis of a Teacher

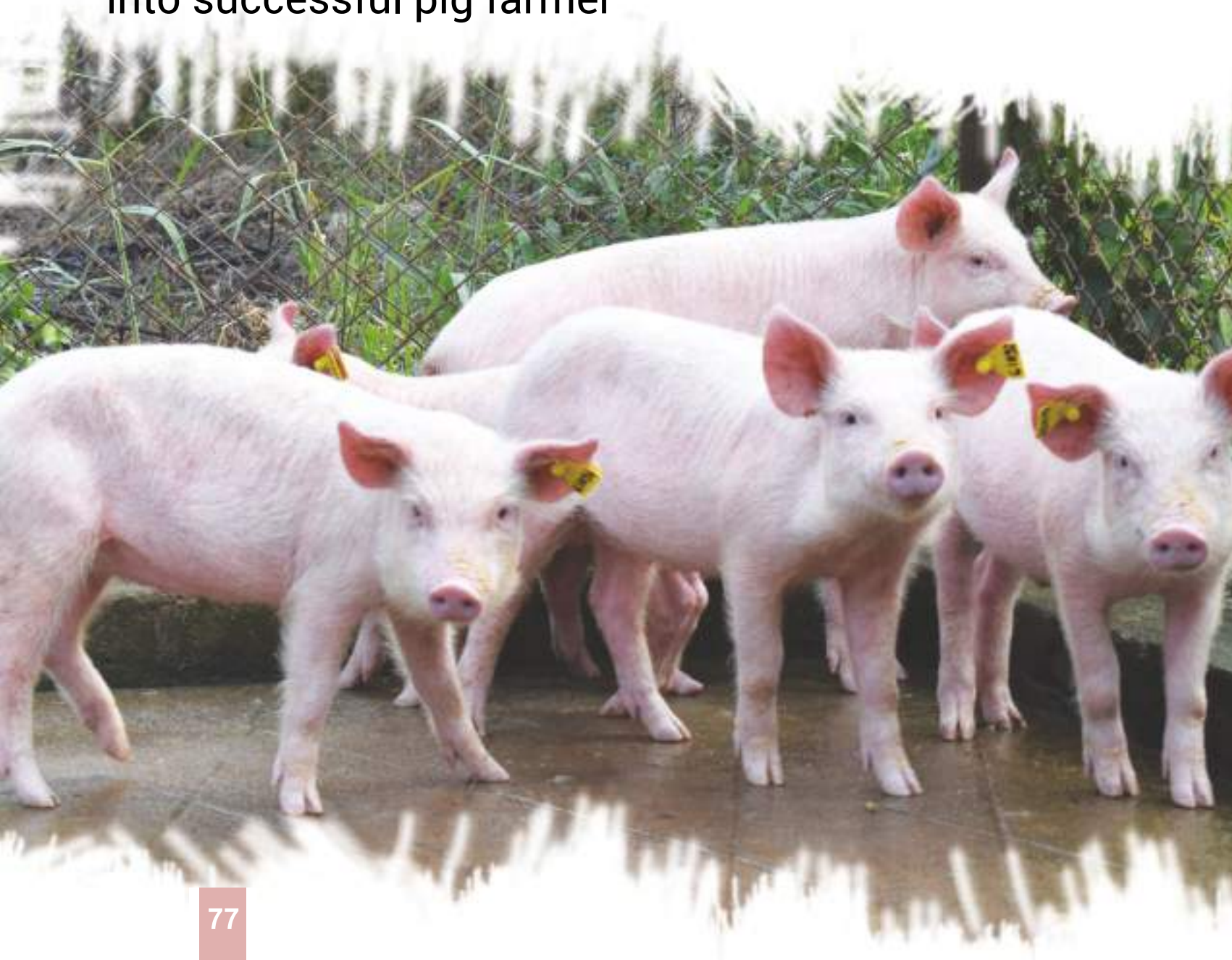
into successful pig farmer



Name of farmer : Sabitra Brahma
Address : NabaDihira, Baksa, Assam
Location : 26.723055° N, 91.181775° E
Contact Number : 8473845748

Introduction

Sabitra Brahma, a dedicated teacher at a government higher secondary school, sought to boost his income by starting a pig farm right next to his home. At first, the journey was fraught with technical challenges, but Sabitra was determined to succeed. Seeking guidance, he reached out to the ICAR-NRC on Pig, where the scientists went above and beyond, visiting his farm and providing essential inputs and feed through their TSP programme. Thanks to their support, Sabitra's farm now thrives with 25 breedable females, 4 boars, and 60 fatteners, producing an impressive 400 piglets each year. He has named his farm "GLOBAL PRC" and ensures quality of piglets being sold to add more brand value.



ICAR-National Research Centre's Intervention

ICAR – NRC on Pig was instrumental in supplying quality feed and farm inputs through TSP programme of the institute. Scientists of the institute helped him a lot to procure initial quality germplasm. He was assisted to formulated feed using locally available resources. He attended awaeness camps conducted by ICAR-NRC on Pig.



Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	12,00,000
2	Finisher	12,00,000
3	Banana cultivation	2,00,000
	Total	26 lakhs

Achievements

He views the creation of the "Global PRC" brand, known for quality piglets, as a significant achievement. His breeder farm supplies high-quality piglets to finisher units in Baksha district, thereby creating employment opportunities for local farmers.



Story of Bella Farms

from cloth merchant to a pig farmer



Name of farmer : Purna Boro

Address : Simla, Baksa, Assam

Location : 26.6988467, 91.2019883

Contact Number : 9954927840

Introduction

Bella farms near Simla market was established post-lockdown period. Mr. Purna Boro, who is the man behind the venture was a traditional cloth merchant. He noticed the rising demand of pork, especially in the northeast. He attended awareness camps organized by ICAR-NRC on Pig under the TSP programme. It was an eye-opener for him and he ventured into pig husbandry soon after. He maintains a stock of Duroc, Hampshire and Large White Yorkshire. He presently owns 20 breedable sows, 2 breeding boars, and 70 growers in his stock. He produces more than 200 piglets in a year. He also practices mixed farming by integrating fisheries and ducks rearing along with his pig farm operations. His farm is in the middle of a rice field, allowing him to comfortably utilize the manure more effectively.



ICAR-National Research Centre's Intervention

Through TSP programme organized at Baksa, ICAR-NRC on Pig supplied feeds, biosecurity kits, charging torches etc., to this budding agri-entrepreneur. Awareness on Biosecurity was imparted through TSP sponsored training programme. He has established robust biosecurity protocols starting from location, fencing and disinfection on his farm. The classes on resource utilization have helped him to integrate pig farming practices with aquaculture.

Yearly Income

SI No.	Particulars	Income (Rupees)
1	Piglet sale	6,00,000
2	Finisher	3,00,000
3	Banana cultivation	2,00,000
	Total	11,00,000

Achievements

Bella farm supplies nearly 200 piglets annually to farms in Baksa district. The pork sales at Simla market attract customers from as far as neighboring Burma. By successfully implementing biosecurity measures, they have prevented the incidence of ASF on their farm.



From Vision to Victory

transformational journey of a school teacher



Name of farmer : Simangsa Deori

Address : Simla, Jala block, Baksa, Assam

Location : 26.7022933, 91.2010633

Contact Number : 8811976464

Introduction

Simangsa Deori is a higher secondary school teacher. He started a pig farm in 2020 by bringing in Duroc, Large white Yorkshire and Hampshire pigs from Tezpur. He is holding both finisher and breeder units on his farm. Presently he has 14 sows, 4 boars, 40 growers and 4 finishers on his farm. He stated his farm as an alternate source of income. He is earning more than 8 lakhs rupees per annum through pig farming. His wife Phumbili Deori and their two children are very enthusiastic about farming and actively support him in routine management.





ICAR-National Research Centre's Intervention

Mr. Simangsa received feeds, biosecurity kits, charging torches etc. through ICAR-NRCP organized TSP Programme. He attended the awareness camp on the sidelines of the TSP programme, which helped him in adopting local feed formulations.

Yearly Income

Sl No.	Particulars	Income (Rupees)
1	Piglet sale	6,60,000
2	Finisher	2,80,000
	Total	8,40,00

Achievements

He recognizes himself as an inspiration to the youth of his area. Through this farm he is able to generate almost 8 lakhs rupees per annum and sell almost 230 piglets.





Activities Under Tribal Sub Plan

Input Distribution activities under Tribal Sub Plan :

Sl. No.	Date	Program titled	Village	District & State	Inputs distributed	No. of beneficiaries
1.	30.06.2022	Research-Extension-Farmers-Interface Meeting and Input Distribution Program	Jhargaon	Udalgiri, Assam	Gumboot (50 nos.), Emergency Light (50 nos.), Bucket (50 nos.), Umbrella (50 nos.)	50
2.	11.08.2022	Participatory Rural Appraisal (PRA) cum awareness programme and input distribution	Deulkuchi	Tamulpur, Assam	Gumboot (58 nos.), Emergency Light (58 nos.), Bucket (58 nos.), Sanitizer (58 nos.)	58
3.	16.08.2022	Participatory Rural Appraisal (PRA) cum awareness programme and input distribution	Bardangarikuchi	Kamrup Rural, Assam	Emergency Light (52 nos.), Gumla(52 nos.), Bucket(32 nos.), Umbrella(52 nos.), Sanitizer(52 nos.)	52
4.	23.08. 2022	Research-Extension-Farmers-Interface Meeting and Field Day cum Input Distribution Program	Kamar Doisa	Baksa, Assam	Emergency Light (100 nos.), Bucket (100 nos.), Sanitizer (100 nos.), Leaflet (500 nos.), Feed (15 tonnes)	101
5.	07. 09.2022	Awareness camp cum input distribution and an ICT-based extension programme	Adjoining villages nearby KVK, Dudhnoi	Goalpara, Assam	Rain Coat (120 nos.), Gumla(96nos.), Bucket (24 nos.), Sanitizer(120nos.), Leaflet (120 nos.), Feed (15 tonnes), Pigs (15 nos.)	120
6.	11.10.2022	Awareness Camp cum Field Day and Input Distribution Programme	Adjoining villages nearby KVK Moopun, Wahaajer	Jaintia Hills, Meghalaya	Rain Coat (75 nos.), Bucket (75 nos.), Feed (15 tonnes), Big Dustbin(4nos.)	76

7.	19.10.2022	Research-Extension-Farmers Interface meeting and Input Distribution Programme	Kaniha, Rangia	Kamrup Rural, Assam	Rain Coat (60 nos.), Leaflet (15 nos.), Mineral Mixture Packets (60 nos.), Feed (9 tonnes)	60
8.	28.10.2022	ICT - based extension programme and input distribution	SimlaHazuwa	Baksa, Assam	Emergency Light (125 nos.), Leaflet (90 nos.), Mineral Mixture Packets (125 nos.), Feed (15 tonnes)	125
9.	11.11.2022	Exhibition/ Farmers fair and input distribution programme under TSP to celebrate 'National Tribal Day'	IIT, Guwahati	Kamrup Rural, Assam	Emergency Light (8 nos.), Bucket (8 nos.), Sanitizer (8 nos.), Spray machine (8 nos.), Mixture Grinder(8nos.), Mineral mixture packets (16 nos.), Digital thermometer (8 nos.)	8
10.	16.11.2022	Frontline Demonstration (FLD) programme on Capacity building of the tribal farmers through demonstration of silage making and storage for pigs and inputs distribution	Adjoining villages nearby KVK, Dudhnoi	Goalpara, Assam	Gumboot (150 nos.), Feed(21tonnes)	151
11.	25.11.2022	Animal Health Camp and Input Distribution Programme	Umsur, Mataikhar	Kamrup Rural, Assam	Gumboot (60 nos.), Emergency Light (60 nos.), RainCoat (120 nos.), Feed (15 tonnes)	120
12.	06.12.2022	Field Day and Input Distribution Programme	Khetri	Kamrup Metro, Assam	Rain Coat (45 nos.), Umbrella (80 nos.), Sanitizer (37 nos.), Mineral mixture packets (87 nos.), Feed (27 tonnes)	125
13.	14.12.2022	Field Day and Input Distribution Programme	Jirang	Ri-Bhoi District, Meghalaya	Mineral mixture packets (150 nos.), Feed (27 tonnes)	135
14.	27.12.2022	Awareness Camp and field demonstration of silage making and Input distribution programme	Kailajuli	Biswanath, Assam	Rain Coat (21 nos.), Umbrella (2 nos.), Water Pump (20 nos.), Mineral mixture packets (100 nos.), Feed (9 tonnes)	110

15.	30.12.2022	Animal Health Awareness Camp and Input distribution Programme	Rajapara village	Kamrup Rural, Assam	Water Pump (25 nos.), Mineral mixture packets (200 nos.), Feed (22 tonnes)	104
16.	03.01.2023	Training and Demonstration of Scientific Slaughtering of Pigs to Tribal Butchers	Adjoining villages nearby KVK, Dudhnoi	Goalpara, Assam	Emergency light (10 nos.), Pigs (2 nos.)	10
17.	05.01.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Koklabari	Baksa, Assam	Mixture Grinder (3 nos.), Mineral mixture packets (7 nos.)	7
18.	13.01.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Gargara and Bikripara village	Kamrup Rural, Assam	Mixture Grinder (2 nos.), Mineral mixture packets (2 nos.)	2
19.	24.01.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Simla Bazar and Kamar Doisa village	Baksa, Assam	Mixture Grinder (5 nos.), Mineral mixture packets (13 nos.)	9
20.	27.01.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Govardhan, Batakuchi and Ghramae villages	Kamrup Rural, Assam	Gumboot (9 nos.), Water Pump (9 nos.), Mineral mixture packets (18 nos.)	9
21.	10.02.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Nakuchi, Rangia	Kamrup Rural, Assam	Mixture Grinder (4 nos.), Mineral mixture packets (2 nos.)	4
22.	23.02.2023	Monitoring and evaluation drive of tribal pig farmers directly benefitted through Institute TSP programme	Jirang	Ri-Bhoi District, Meghalaya	Mixture Grinder (5 nos.), Mineral mixture packets (5 nos.)	7

23.	07.03.2023	Pig Distribution Programme cum Monitoring and Evaluation drive of Tribal Pig Farmers	Adjoining villages nearby KVK, Dudhnoi	Goalpara, Assam	Water Pump (12 nos.), Mineral mixture packets (14 nos.), Pigs (8 nos.)	12
24.	16.03.2023	Fertility awareness camp for reproductive management in pigs using hormones for estrus synchronization and distribution of small inputs	Loharghat and Kathalguri adjoining areas	Kamrup Rural, Assam	Gumboot (10 nos.), Emergency light (10 nos.), Bucket (10 nos.), Water Pump (7 nos.), Mineral mixture packets (48 nos.), Hormones (48 nos.), Health kits (48 nos.)	12
25.	16.03.2023	Pig Distribution Programme cum Monitoring and Evaluation drive of Tribal Pig Farmers	Umsur	Kamrup Rural, Assam	Mixture Grinder (3 nos.), Mineral mixture packets (6 nos.)	3
26.	17.03.2023	Animal Health Camp and Input Distribution Programme	Gosaihat, Uparpara	Kamrup Rural, Assam	Bucket(40nos.), Sanitizer (40 nos.), Spray Machine (1 nos.), Mixture Grinder(1nos.), Leaflets (50 nos.), Mineral mixture packets (40 nos.), Health kits (40 nos.)	40
27.	22.03.2023	Research-Extension-Farmers Interface meeting and input distribution program	College of Community Science, Tura	Tura, Meghalaya	Mixture Grinder (100 nos.), Mineral mixture packets (200 nos.), Feed (15 tonnes)	100
28.	29.03.2023	Animal Health Camp and Input Distribution Programme	Boko	Kamrup Rural, Assam	Emergency light (100 nos.), Water Pump (100 nos.), Mixture Grinder (5 nos.), Mineral mixture packets (100 nos.), Feed (10 tonnes), Health kits (100 nos.)	102
29.	29.03.2023	Animal Health Camp and Input Distribution Programme	Dhuwapara	Kamrup Rural, Assam	Gumboot (61 nos.), Emergency light (61 nos.), Bucket (61 nos.), Mineral mixture packets (61 nos.), Health kits (61 nos.)	61

30.	30.03.2023	Animal Health Camp and Input Distribution Programme	Mataikhar	Kamrup Rural, Assam	Gumboot (100 nos.), Water Pump(3nos.), Mixture Grinder (6 nos.), Digital Thermometer (100 nos.), Health kits (100 nos.)	103
31.	30.03.2023	Field Day and Input Distribution Programme	Singimari, Borpani.	Nagaon, Assam	Gumboot (120 nos.), Emergency light (120 nos.), Bucket (120 nos.), Spray Machine (118 nos.), Water Pump (4 nos.), Mixture Grinder (4 nos.), Mineral mixture packets (150 nos.), Feed (17 tonnes),	130

Field Days & Front Line Demonstrations

Sl. No.	Date	Program titled	Village	District & State	No. of beneficiaries
1.	18.08.2022	Focus Group Discussion (FGD) to assess the impact of 'Rani'	Adjoining villages nearby ICAR NRCP	Kamrup Rural, Assam	15
2.	21.09. 2022	Front Line Demonstration Programme (FLD) on "Capacity Building of the tribal farmers through demonstration of Artificial Insemination in Pigs"	Adjoining villages nearby KVK, Dudhnoi	Goalpara, Assam	100

Trainings

Sl. No.	Date	Training Title	Venue	No. of Days	No. of beneficiaries
1.	24.09.2022	Training Programme on 'Reproductive Management and Artificial Insemination in Pig'	ICAR -NRC on Pig, Rani, Guwahati	3	19
2.	03.11.2022	Training Programme on 'Scientific Pig Farming for Livelihood and Nutritional Security'	ICAR- NRC on Pig, Rani, Guwahati	3	21
3.	05. 01.2022	Basic Hands-on training for Tribal Science Graduate Students	ICAR -NRC on Pig, Rani, Guwahati	3	18
4.	20.01.2022	Workshop cum training on 'Promotion-of Agri entrepreneurship on Scientific Pig Production Practices and Value Addition of pork'	ICAR -NRC on Pig, Rani, Guwahati	3	15
5.	14.02.2022	Training Programme on 'Assisted Reproductive technologies for augmenting production in pig'	ICAR -NRC on Pig, Rani, Guwahati	7	16

Glimpses of the Activities





Input distribution activities

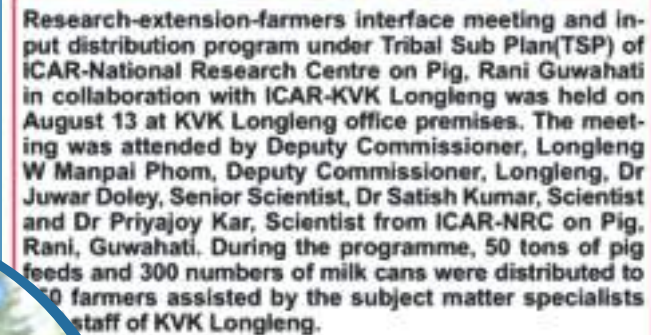
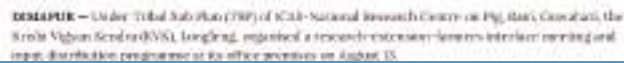






Awareness Programmes





03 is and experts from the area also advise. (Continued)



Training Programmes



Field Demonstrations



Bridging

The Socio-Economic Gap

The Tribal Sub Plan (TSP) is an initiative of the Government of India aimed at reducing the socio-economic gap between marginalized communities and the rest of the population. The piggery sector can be a promising avenue for implementing TSP, as it has the potential to provide employment opportunities and improve the economic conditions of tribal communities.

To bridge the socio-economic gap through TSP in the piggery sector, the following measures can be taken:

- a) **Providing financial assistance:** The government can provide financial assistance to tribal communities to start piggery units. This can be in the form of subsidies, loans or grants.
- b) **Skill development:** Skill development programs can be conducted to train tribal communities in pig rearing, breeding, and management. This can be done in collaboration with agricultural universities and research institutes.
- c) **Technical support:** Technical support can be provided to the tribal communities in the form of veterinary services, feed management and disease control.
- d) **Market access:** The government can provide market access to the tribal communities by linking them with pig marketing agencies and promoting the sale of pig products in local markets.
- e) **Awareness campaigns:** Awareness campaigns can be conducted to sensitize tribal communities about the potential of the piggery sector and the benefits of pig rearing.
- f) **Community participation:** Community participation can be encouraged by involving tribal communities in decision-making processes related to the piggery sector. This can help build trust and ensure that the initiatives' benefits reach the targeted communities.

Overall, implementing TSP in the piggery sector can effectively bridge the socio-economic gap and improve the livelihoods of marginalized communities. The success of such initiatives would depend on the involvement of the government, technical experts and the community in planning and implementing the initiatives.

Amplifying the Scalability

and harnessing opportunities in the north eastern region



Scaling-up strategies

To amplify the scalability of TSP initiatives in the piggery sector, it is essential to identify and harness opportunities in India's Northeast (N-E) region. The N-E region is known for its rich bio-diversity, vast forest resources and diverse tribal communities, making it an ideal region for the development of the piggery sector.



Different measures can be taken to harness the opportunities in the N-E region and amplify the scalability of TSP initiatives in the piggery sector

- i. **Promotion of indigenous pig breeds:** The N-E region has a rich diversity of indigenous pig breeds that are well-adapted to the local environment and have unique characteristics. Promoting these indigenous pig breeds can help conserve pigs' genetic diversity and provide a niche market for pig products.
- ii. **Development of value chains:** Developing value chains for pig products can help in creating a sustainable market for the products and provide income opportunities to the tribal communities. This can be done by linking pig producers with processors, wholesalers and retailers.
- iii. **Creation of infrastructure:** Creating infrastructure such as pig breeding farms, feed production units and veterinary clinics can provide the necessary support for the development of the piggery sector in the N-E region.
- iv. **Research and development:** Research and development activities can be undertaken to identify the unique characteristics of indigenous pig breeds, develop new pig breeds, and improve the productivity and efficiency of pig farming practices.
- v. **Public-private partnerships:** Public-private partnerships can be encouraged to leverage the resources and expertise of the private sector in the development of the piggery sector.
- vi. **Skill development:** Skill development programs can be conducted to train tribal communities in pig rearing, breeding, and management. This can be done in collaboration with local agricultural universities, research institutes and private sector organizations.
- vii. **Use of technology:** Using technology such as artificial insemination, embryo transfer, and modern animal husbandry practices can help improve the productivity and efficiency of livestock farming practices.

Amplifying the scalability of TSP initiatives in the piggery sector requires the identification and harnessing of opportunities in the N-E region of India. Such efforts would be successful if the government, corporate sector, technical specialists and community participated actively in their design and execution.

Way forward and future vision :



The Tribal Sub Plan (TSP) programme is aimed at promoting the socio-economic development of scheduled tribes in India. In India particularly in the North Eastern region, the piggery sector has immense potential for growth and can be a major source of livelihood for marginalized communities. The way forward for TSP programs in the piggery sector in India can be outlined as follows :

- **Development of infrastructure:** The piggery sector requires proper infrastructure such as sheds, water supply, electricity and access to veterinary services. TSP programs can allocate funds for the development of such infrastructure in the piggery dominated regions.
- **Skill development:** Training and skill development programs can be organized for the beneficiaries of TSP programs to improve their knowledge of piggery farming practices. This can include training on breeding, feeding and disease management of pigs.
- **Market linkages:** Piggery farmers need access to markets to sell their produce. TSP programs can facilitate market linkages by connecting the farmers with buyers and providing them with information on market demand and pricing.
- **Promotion of breed improvement:** The piggery sector in the is dominated by indigenous pig breeds, which have low productivity. TSP programs can promote breed improvement by introducing superior breeds and providing technical support to farmers for breeding and selection.
- **Promotion of value addition:** The piggery sector has the potential for value addition through the processing of pork products such as sausages, bacon and ham. TSP



programs can promote value addition by providing technical support and funding for setting up processing units.

In the future, the TSP programs in the piggery sector can focus on building a sustainable and inclusive value chain for the sector. This can involve the integration of small-scale pig farmers with larger market players and the promotion of environmentally sustainable practices. The programs can also focus on leveraging technology to improve the productivity and efficiency of pig farming. ICAR-NRCP can play a pivotal role in managing and training human resources under different production, processing and managerial aspects of pig farming. Identification of problematic areas and the sectors to generate entrepreneurial opportunities can be done through planned Focus Group Discussions (FGDs) with the stakeholders in the production systems. An area-specific community focussed program with inputs and training in definite intervals can be planned annually. The impact studies can be done with specific communities respective of the areas. Proper follow-up and response protocols are to be developed for effective use of inputs and training in sectoral development and employment generation. Documentation of the activities and improvement in the economic welfare can be assessed over time through several indicators. GPS-based record keeping can be done for evaluation of the specific inputs that must be distributed to the specific community in the proper habitat. Overall, the TSP programs have the potential to play a critical role in promoting the growth and development of the piggery sector in India and improving the livelihoods of marginalized communities.

Tribal Prosperity Through Piggery : Pathways to wealth and welfare

ISBN : 978-81-981039-9-4

©2024, ICAR-National Research Centre on Pig, Rani, Guwahati-781131, Assam.

All rights reserved. Except as permitted under Indian Copyright Law, no part of this book may be reprinted, reproduced, distributed or transmitted in any form or by any means including photocopying, recording, or other electronic or mechanical methods without the prior permission of the publisher. Some pictures used in this book are created using prompt-based image generation in Copilot.

Compiled & Edited by Committee for compilation, monitoring & evaluation of DAPSC/ST

Chairman : Vivek Kumar Gupta

Editorial Members : Pranab Jyoti Das; Nitin M. Attupuram; Priyajoy Kar; S. Jayachitra Devi; Jaya Bharati; Satish Kumar ; Rafiqul Islam; Sunil Kumar; Kalyan De; Juwar Doley; Seema Rani Pegu; & Keshab Barman

Contributors : Swaraj Rajkhowa; B.C. Das; N.H. Mohan; Rajendran Thomas; Souvik Paul; Rajib Deb; Lokesha E.; Vishal Rai; Meera K.

Published by : Director ; ICAR-National Research Centre on Pig, Rani, Guwahati-781131, Assam.

Printed at : Maa Manasha Printers, Zoo Road Tinali, Guwahati-23

Citation : Gupta V.K.; Das P.J.; Attupuram N.M.; Kar P; Devi S.J.; Bharati J.; Kumar S.; Islam R.; Kumar S.; De K.; Doley J.; Pegu S.R. & Barman K. 2024. Tribal Prosperity Through Piggery : Pathways to wealth and welfare. ICAR-NRC on Pig, Rani, Guwahati, Assam



nrCP

nrCP.icar.gov.in | nrconpig@rediffmail.com | [@nrcpig](https://twitter.com/nrcpig) | [icarNrcOnPig](https://www.facebook.com/icarNrcOnPig)