



# **EMPOWERING AND ENGAGING YOUTH IN AGRICULTURE FOR SUSTAINABLE GROWTH AND RESILIENCE IN NEH REGION**

## **SUCCESS STORIES UNDER ARYA PROJECT**

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**ICAR- Agricultural Technology Application Research Institute, Zone VII**  
**Umiam-793103, Meghalaya**

# **Empowering and Engaging Youth in Agriculture for Sustainable Growth and Resilience in NEH Region: Success stories under ARYA Project**

**Compiled and edited by**

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# PREFACE

## *Greetings from Team ICAR-ATARI, Umiam!*

**I**CAR-Agricultural Technology Application Research Institute (ATARI), headquartered in Umiam, Meghalaya, is a key zone among the eleven designated zones in India under the Transfer of Technology Project of ICAR. It covers five North Eastern States, namely Manipur, Meghalaya, Nagaland, Mizoram, and Tripura. The institute plays a crucial role in coordinating and monitoring technology application, frontline extension education programs, and enhancing agricultural extension research and knowledge management. Additionally, ICAR-ATARI oversees the implementation of Transfer of Technology (TOT) initiatives, systematically coordinates, monitors, and reviews the mandated activities of Krishi Vigyan Kendras (KVKs). These activities include technology assessment, refinement, demonstrations, training programs, and various other extension activities across the five states in the region.

The agricultural landscape in India is facing challenges as the younger generation is increasingly turning away from farming, opting instead to migrate to urban areas in pursuit of non-agricultural employment. This trend poses a threat to food security, emphasizing the need to incentivize and engage young individuals in agriculture. Recognizing the pivotal role of rural youth in agricultural development, particularly in ensuring the nation's food security, the Indian Council of Agricultural Research (ICAR) launched the **"Attracting and Retaining Youth in Agriculture (ARYA)"** program in 25 Krishi Vigyan Kendra (KVK) districts across the country in the fiscal year 2015-16, with a budget allocation of Rs. 100 crores.

The implementation of the ARYA project commenced in three KVKs, namely Wokha (Nagaland), Lunglei (Mizoram), and Senapati (Manipur), under the supervision of ICAR-ATARI, Umiam. The program aims to provide tangible benefits to rural youth in these districts, encouraging them to pursue various agricultural and allied service sector enterprises and thereby stemming the tide of educated youth migrating from rural areas to urban centres in search of employment. The impact of the ARYA project in the initial three

KVKs has been promising, with local youth actively embracing agriculture and allied activities as a primary source of income generation and self-employment. The positive reception of the project in this region suggests significant potential for attracting more youth to engage in agriculture and related sectors in the years to come.

Expanding the initiative, the ARYA Project has been extended to three additional KVKs, namely Jaintia Hills (Meghalaya), Tuensang (Nagaland), and Dhalai (Tripura), with administrative and financial approval from the competent authority of ICAR, New Delhi, during the fiscal year 2018-19. This expansion aims to provide support to a greater number of rural youth in the designated zones. This document detailing the ARYA Project serves as a valuable resource for stakeholders involved in the region, offering technical guidance for policy formulation and effective implementation of developmental programs aimed at the rural youth in the hilly states. I sincerely acknowledge the services rendered by Dr. R. Bordoloi, Principal Scientist, and his entire team for their unwavering dedication in crafting this document.

Place: Umiam

**Dr. A.K. Mohanty**  
Director

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# 1 Chapter

## Background and Guidelines

### 1. Introduction

**Y**outh plays vital role in meaningfully transforming Agriculture in India. According to national youth policy, youth in the age group of 15-35 are defined as young. At present, 35% of the total population is in the age group of 15-35 years, out of which 75% live in rural areas. Urban migration among the rural youth stands at approximately 45% nationwide, and a mere 5% of the youth demographic is estimated to be actively involved in agricultural pursuits.

In order to create interest and confidence among rural youth in agriculture, there is a need to make agriculture more profitable. Retaining youth in agriculture and making agriculture more profitable are thus, big challenges. There is a continuous increase in the migration of rural youth to urban areas. 'The difference in basic amenities, communication, health and education facilities between villages and urban areas also attracts the youth towards cities. On the other hand, small land holdings are on the rise which poses challenge to food security for increasing population. Thus, it was felt to bring a comprehensive model for the development of rural youth in general and agricultural youth in particular.

Thus, realizing the importance of rural youth in agricultural development especially from the point of view of food security of the country, ICAR has initiated a program on "Attracting and Retaining Youth in Agriculture. The EFC of IP&TM has recommended the XII plan scheme, National Agricultural Innovation Fund with three components namely (I) Innovation Fund, (II) Incubation Fund and (III) Attracting and Retaining Youth in Agriculture (ARYA). Thus ARYA is one of the components of the scheme. The EFC has recommended the total outlay Rs. 100 Crore for the whole plan period for implementation in 25 Centre.

Under this scheme, special efforts will be taken to attract the rural youth under the age of 35 years in agriculture so that the increase in the migration of rural youth towards cities is controlled.

## 2. Project objectives

- (i) To attract and empower the Youth in Rural Areas to take up various Agriculture, allied and service sector enterprises for sustainable income and gainful employment in selected districts,
- (ii) To enable the Farm Youth to establish net work groups to take up resource and capital intensive activities like processing, value addition and marketing, and
- (iii) To demonstrate functional linkage with different institutions and stakeholders for convergence of opportunities available under various schemes/ program for sustainable development of youth.

## 3. Operational mechanism

The project shall be implemented in 25 districts (one district from each state) through the KVKs of those districts with technical partners from Institutes of the Indian Council of Agricultural Research (ICAR), the Agricultural Universities and others. One or two entrepreneurial development units shall be established at the KVK itself so that it/those serve(s) as entrepreneurial training unit(s) for the farm youth. The KVKs shall also facilitate youth for establishing various entrepreneurial units at the farm of the youths or group of youth.

## 4. Selection of KVKs

The potential KVKs from each State shall be identified by the concerned Agricultural Technology Application Research Institute (ATARI) and shall be nominated for preparing concept notes and submit the project proposals through the concerned ATARI to the Agricultural Extension Division/ The DDG (Agril Extension). The project proposals submitted by the KVKs then shall be examined by the Project Screening Committee constituted by the Competent Authority in the ICAR and recommend the suitable Projects for funding.

After the initial scrutiny of the project proposals received from KVKs, the Committee may suggest that the select KVKs to submit revised project proposal appraising activities-wise funding requirement, milestones and specific deliverables, specify that the proposal document need to be brief and focused not exceeding 10 pages. The following points are to be kept in view while developing the final project proposal:

- Clarity and relevance of the technical programs *vis a vis* the stated objectives
- Economic analysis of proposed interventions, and

- Market linkages as an essential component for each entrepreneurial development initiative.

Project output/ deliverables shall be given in qualitative and quantitative terms against baseline values.

## 5. Identification of Youth

Each KVK shall involve about 200 youths having less than 35 years of age. The selection of the youth shall be made on the basis of gender and social status. The implementing KVK shall evaluate the capability of each candidate (Youth) to select a particular suitable agricultural venture for him/ her. The District Committee constituted at KVK level for implementation of the ARYA project will also provide overall guidance in selection of the potential youth with entrepreneurial aptitude.

Besides developing entrepreneurship capabilities, the youth shall be trained on the essential skills as per the requirement of selected enterprises and entrepreneurial units shall be established at their location within the selected district depending upon market potential of the enterprise and availability of fund. The entrepreneurial activities may be in the area of Apiary, Mushroom, Seed Processing, Soil testing, Poultry, Dairy, Goatry, Carp-hatchery, Vermi-compost etc.

The purpose is to establish economic models for youth in the villages so that youths get attracted in agriculture and overall rural situation is improved. Skill development of rural youths will help in improving their confidence levels and encourage them to pursue farming as profession, generate additional employment opportunities to absorb under employed and unemployed rural youth in secondary agriculture and service related activities in rural areas. The trained youth groups will function as role model for other youths and will demonstrate the potentiality of the agri- based enterprises and also give training to other farmers.

## 6. Project Governance and Administration

Deputy Director General (Agril Extn) shall be the overall administrator of the project at ICAR Headquarter level and shall have overall supervision and guidance on the ARYA Project. The project will be implemented by Agricultural Extension Division, ICAR New Delhi. Assistant Director General (Agril Extn) / Principal Scientist (Agril Extn) from the Agricultural Extension Division, ICAR Headquarters will be the Nodal Officer for implementation of the project. The Agricultural Technology Application Research Institute (ATARI), Zone-VIII, Bengaluru will assist ICAR Head Quarters in coordinating the project. Director, ATARI will be facilitating the identified KVKs in the concerned Zone for implementation of the project.

The governance of the ARYA scheme shall be through various Committees constituted with the approval of the competent authority in the ICAR. There shall be an Apex Committee, a Steering Committee, Zonal Committees and District Committee for administration and effective implementation of the ARYA scheme. The various committees, their composition and the Terms of References of each Committee shall be as given below:

### 6.1 Apex Committee:

Secretary (DARE) & DG (ICAR)	Chairman
Additional Secretary (DARE) & Secretary (ICAR)	Member
Additional Secretary & Financial Advisor, DARE/ICAR	Member
Deputy Director General (Agril Extn)	Member
Director (Finance), ICAR	Member
Nominee from Department of Agriculture & Cooperation (DAC)	Member
Nominee from Agriculture Skill Council of India (ASCI)	Member
Two Experts to be nominated by Secretary, DARE & DG, ICAR	Member
Director, Agricultural Technology Application Research Institute (ATARI) (One)	Member
ADG (IP&TM), ICAR	Member
ADG (Agril Extn)/ Principal Scientist (Agril Extn), ICAR	Member-Secretary

### Terms of Reference (ToR):

- i. To review the progress of the project and provide directions for implementation of the project.

The Committee will meet at least once in a year.

## 6.2 Steering Committee

Deputy Director General (Agril Extn)	Chairman
Directors, Agricultural Technology Application Research Institute (ATARI)	Member
ADG(IP&TM)	Member
Deputy Secretary, Agricultural Extension	Member
ADG(Agril Extn)/ Principal Scientist (Agril Extn)	Member Secretary

### Terms of Reference (ToR):

- i) To provide overall guidance and monitoring of physical and financial progress of the implementation of the project and reporting on the implementation to apex Committee.
- ii) The Committee will meet at least twice in a year.

## 6.3 Zonal Committee

Senior Expert having acquaintance and knowledge of the area to be nominated by Secretary, DARE & DG, ICAR	Chairman
Director, Agricultural Technology Application Research Institute (ATARI)	Co- Chairman
Director of Extension Education from Agricultural University (One from each State)	Member
One Expert from nearby ICAR Institute to be nominated by DDG (Agril Extn)	Member
Additional Director of Agriculture/ Horticulture/ Animal Husbandry from State Department of Agriculture	Member
Administrative Officer from ATARI	Member
AAO/AFAO from ATARI	Member
Principal Scientist, Agricultural Technology Application Research Institute (ATARI)	Member-Secretary

### Terms of Reference (ToR)

- iii) To approve work plans, guide and monitor the operation of ARYA Project(s) in KVKs in the concerned Zone.

**The Committee will meet at least twice in a year.**

### 6.4 District Committee

Director of Extension Education from Agricultural University	Chairman
Representative from line Department	Member
One Expert from nearby ICAR Institute to be nominated by DDG (AE)	Member
Principal Scientist, Agricultural Technology Application Research Institute (ATARI)	Member
FAO/AFAO from Krishi Vigyan Kendra	Member
Senior Scientist-cum-Head, Krishi Vigyan Kendra	Member-Secretary

### Terms of Reference (ToR)

- iv) Allocate and provide the funds for different activities as approved.
- v) Guide and coordinate with selected youths for operationalization of work plan.
- vi) Monitor the ARYA project on regular basis.
- vii) Consider and take appropriate action in any other matter concerning the operation of ARYA project.
- viii) The Committee will meet at least twice in a year.

### 6.5 Project screening committee

i)	Senior Expert	Chairman
ii)	Expert	Member
iii)	Expert	Member
iv)	Director (Finance), ICAR	Member
v)	Principal Scientist(AE), ICAR	Member- Secretary

## **TOR**

- i) To identify, screen and recommend proposals to be supported under ARYA Project for seeking approval of the Competent Authority in ICAR through the Agricultural Extension Division.
- ii) The Committee may sit on quarterly basis or as per need.

## **7. National Coordination Unit**

As envisaged in the EFC document of the IP&TM unit would serve as National Coordination Unit for coordination and smooth implementation of ARYA component. Since Agricultural Extension Division (SMD) is the project partner for implementation of the scheme, the said National Coordination unit shall be located in the Agricultural Extension Division. Provision shall be made for expenditure on office equipment, computers, printers, furniture etc., and also to meet operational expenses like hiring of Project Consultant, Research Associates, Senior Research Fellows, Office Assistants, Data Entry operators, vehicles, travel expenses, expenses towards organization of Committee meetings, review meetings and workshops, sitting fees for members of Committees, wherever applicable and other miscellaneous contingencies.

## **8. Coordination Unit at the Agricultural Technology Application Research Institute (ATARI)s**

Similar provision as that of National Coordination Unit shall be made for ATARIs so as to enable effective coordination and implementation of ARYA projects in the respective zones.

## **9. Support at the KVK level**

For smooth operation of the ARYA Project the Senior Scientist-cum- Head, KVK shall be supported by one Project Consultant, one Project Assistant and one Field Assistant on contractual basis as per ICAR/ GoI norms. The Project Consultant shall be a person who has experience of implementing the Projects of similar nature. Project Assistant with qualification of MSc/PhD in Agriculture and Field Assistant with qualification of Graduation in Agriculture shall be engaged. For operational efficiency, Financial and administrative powers to carry out the day-to-day activities may be delegated to the concerned Senior Scientist-cum-Head of the KVK.





## 10. Fund Flow Mechanism

The funding support for implementation of the project is under “National Agricultural Innovation Fund” as approval for the XII Plan EFC of the IP&TM Unit. The funding will be based on objectives, activities of the enterprises proposed in the project document by the concerned KVK. Based on the recommendation of the Screening Committee which also comprise of a representative from Integrated Finance Division (IFD), Agricultural Extension Division shall process the cases for obtaining concurrence from IFD and approval by the competent authority in the ICAR. The projects shall be notified by the Agricultural Extension Division and sanction for release of fund shall be issued, advising the IP&TM unit to release the fund to the respective ATARI for further disbursement of fund to the concerned KVKs. The approved project is to be implemented through identified KVK(s). A separate ledger shall be maintained for the ARYA Project both at the ATARI and at the KVK levels. The account shall be statement of expenditure based. The norms of ICAR auditing shall be followed.

Under the ARYA project, operational costs to support critical inputs like seeds, fertilizers, small equipment may be provided to farm youth. Depending upon the type of enterprise, i.e., whether individual-based or group-based, the amount of funding to each enterprise may vary. This will provide additional opportunities to the unemployed rural youth in secondary agriculture and related enterprises.

## 11. Monitoring and Evaluation

The concurrent monitoring, evaluation and mid-term correction shall be an integral part of project implementation as delineated in the project governance and administration.

## 12. List of ARYA implementing KVKs under Zone-VII, Umiam

- 
1. KVK Senapati, Manipur
  2. KVK Lunglei, Mizoram
  3. KVK Wokha, Nagaland
  4. KVK Jaintia Hills, Meghalaya
  5. KVK Tuensang, Nagaland
  6. KVK Dhalai, Tripura

The target of ARYA project earlier was to cover a total of 25 districts. However, the Government of India has recently expanded it to a total of 100 districts from the financial year 2018-19.

## 2 Chapter

# Achievements

### 2.1.1 Name of KVK: KVK Lunglei

**2.1.2 Project Initiation:** Krishi Vigyan Kendra Lunglei is selected as the project centre for Mizoram. The project was officially inaugurated on 15<sup>th</sup> October, 2015 at KVK Lunglei, Hnahthial. Initially the project under KVK Lunglei comprised of four enterprises and then in 2020 two new enterprises were added in the project.

### 2.1.3 District Profile (In details):

Particulars	No/percentage
Total population of district	161428*
No of farmers family	113000
Agriculture labourer	45439
Total unemployed youth male	27120
Total unemployed youth female	40680
No of GP/VC	116
Village covered till dated	12
No. of youth covered during the year	564
% Literacy rate	85.49%*

\*According to 2011 census

### 2.1.4 Identification of Youth (Age group and number of youth):

	Piggery	Poultry	Mushroom	Bee Keeping	Vermicomposting	Protected Cultivation
<b>No of Youth</b>	60	45	25	40	12	18
<b>Age group</b>	20-35	20	35	20	35	20

### 2.1.5 Name of co-operating institutions for technical support:

1. CAU, Selesih, Aizawl
2. College of Horticulture, Thenzawl, Mizoram
3. IIHR, Bengaluru

### 2.1.6 Enterprise Details

**Discipline area:** Animal Science

- **Name of Enterprise:** Piggery
- **Objectives of the Enterprise:** Abundant production of meat and piglets
- **Detailed description:** Two breeding units and twelve fattening units were set up through this project. Skill trainings on Pig breeding and management were conducted and health status of the pigs and the farms were constantly monitored.
- **Input/ Support Provide:** Low cost pig shed, Piglets, feeds, medicines and vaccine.



- **Progress Made:** Increase in production meat and piglets and sold in local market.

**Discipline area:** Animal Science

- **Name of Enterprise:** Poultry
- **Objectives of the Enterprise:** Production of eggs and meat
- **Detailed description:** Eight poultry units consisting of 100 birds per unit were set up. Skill training on Poultry farming and management were organized for the rural youth. The health status of the birds and the farms are monitored from time to time.
- **Input/ Support Provide:** Day old chicks, feeds, materials for housing, medicines and vaccine.



- **Progress Made:** Increase in egg and meat production and sold in local market.

**Discipline area:** Plant Protection

- **Name of Enterprise:** Mushroom
- **Objectives of the Enterprise:** All year round mushroom production, employment generation and enhancement of socio economic status of rural farm families.
- **Detailed description:** Five mushroom production units were established. The production units were covered with 75% shade net for proper aeration and shade. Skill trainings on Introduction to mushroom cultivation were also organized.
- **Input/ Support Provide:** Quality spawn, Aluminium degchi
- **Progress Made:** Products sold at local market and marts in the towns, products displayed in District and State level exhibitions and Kisan Mela, Fresh mushroom sold under brand name *02 Mushroom & Peki fresh mushroom.*



### Discipline area: Apiculture

- **Name of Enterprise:** Bee keeping
- **Objectives of the Enterprise:** Increase in honey production through scientific bee keeping
- **Detailed description:** Eight bee keeping unit consisting of 20 bee box per unit was set up through this project. Skill trainings on scientific bee keeping were also organized.
- **Input/ Support Provide:** Bee box, beekeeping equipment like bee veil, gloves, brush, swarm net, smoker & for labeling the honey produced glass jar and stickers.
- **Progress Made:** Honey were sold under the Brand name "Theiriath khawizu by Fanai Bee Farm, Enok Honey by Enok Bee farm, Pure Honey by S. vanlaiphai Bee Keepers association, Raw honey by Thiltlang Bee keepers, Fresh honey by Khawhri Bee keepers Association



### Discipline area: Soil Science

- **Name of Enterprise:** Vermicomposting
- **Objectives of the Enterprise:** To generate income through production of organic inputs for vegetable growers and florist.
- **Detailed description:** Established four number of entrepreneurial units with three members each. Skill trainings on Production techniques of vermicompost were also organized.
- **Input/ Support Provide:** Vermicompost bed (12ft × 4 ft), Vermi unit shade, Earthworms (*Eisenia foetida*), Packing bags (25 Kgs).



- **Progress Made:** Products sold under the Brand name: Zo-Compost & Malsawm Compost also sold at the local market and agriculture stores and displayed in District and State level exhibitions and Kisan mela.

**AWARD: Waste resource utilizer award under District swatcha-Hnahthial awarded to Mr. Malsawmtluanga**

**Discipline area:** Horticulture

- **Name of Enterprise:** Protected Cultivation
- **Objectives of the Enterprise:** Promotion of high value horticulture crops, round the year cultivation of vegetables and production of healthy seedlings and disease free planting materials.
- **Detailed description:** Established six number of entrepreneurial units with three members each. Conducted skill trainings on Green house management and Cultivation practices of Rabi and Kharif vegetables.
- **Input/ Support Provide:** Shadenet house, polyhouse, seeds, mulching materials, cutter, plastic crates, PP chemicals.
- **Progress Made:** Products sold at the local market, products displayed in District and State level exhibitions and Kisan mela.



### 2.1.7 Capacity Development:

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Piggery	Pig Breeding & Management of Piglets	5	68	32	100
Poultry	Skill training on Poultry farming & Management	3	77	37	114
Mushroom	Skill trainings on introduction to mushroom cultivation	5	28	94	122
Bee keeping	Skill trainings on scientific bee keeping	6	69	21	90
Vermi composting	Skill trainings on production techniques of vermicompost	4	50	28	78
Protected Cultivation	Skill trainings on Green house management, Cultivation practices of Rabi and Kharif vegetables	3	30	35	60

### 2.1.8 Economic Profitability:

Name of Enterprise	Area (Acre)/ No.	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. per Unit per year)
Piggery	14 pigs	2,35,000	9,70,000	7,35,000
Poultry	400 bids/cycle	2,38,000	6,15,000	3,77,000
Mushroom	120-150 bags/unit	6,48,000	8,73,000	2,25,000
Bee keeping	15-25 boxes/acre	5,04,000	7,02,000	1,98,000
Vermi composting	4 bags/unit	7,20,000	9,60,000	2,40,000
Protected Cultivation	6 polyhouse (100m <sup>2</sup> )	2,40,000	4,40,000	2,00,000

## 2.1.9 Income level per Rural Youth:

State	Name of KVK	Name of enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Mizoram	Lunglei	Piggery	4	74,000	1,47,000	73,000
		Poultry	8	33,400	75,400	42,000
		Mushroom	5	20,700	45,000	24,300
		Bee keeping	8	19,400	39,600	20,200
		Vermi composting	4	39,500	80,000	40,500
		Protected Cultivation	6	38,000.00	78,000.00	40,000

### 2.1.10 Impact:

Indicators	Piggery	Poultry	Mushroom	Beekeeping	Vermi Composting	Protected cultivation
Year of establishment	2016	2016	2016	2016	2020	2020
Training Programs Conducted	5	3	5	6	4	3
Rural Youth Trained	100	114	122	90	78	60
Groups formed	12	9	5	8	4	6
Number of youths associated with each group	5	5	5	5	3	3
Entrepreneurial units Established	12	9	5	8	4	6
Farmer Producer Group/ SHG/JLG	3	2	2	5	1	1
Whatsapp Group Created	ARYA Piggery Unit	ARYA Poultry Unit	ARYA Mushroom Unit	ARYA Beekeeping Unit	ARYA Vermi unit	ARYA PC Unit



Through Project ARYA, KVK Lunglei district has trained more than 200 youths for skill development in different entrepreneurial activities like poultry farming, piggery farming, mushroom cultivation, bee keeping, Vermicomposting and protected cultivation. The youth in the district have started taking up agriculture and allied activities as a major occupation for getting additional income through generation of self-employment.

#### **2.1.11 Publications:**

- i. LAMTLUANG: Youth empowerment through Attracting and retaining Youth in Agriculture, 2022 (Bulletin)
- ii. 'Impact study of Oyster Mushroom Cultivation training programme on rural farm women in the North East Hilly region of Lunglei District Mizoram'. (Popular article)
- iii. Vermicompost production: A promising enterprise for enhancing farmers income in Lunglei District, Mizoram (Souvenir: Empowering tribal farmers; ICAR: NEH Region, Mizoram Centre), (Popular article)
- iv. Pig breeding and Management (Leaflets)
- v. Rainbow Rooster Management (Leaflets)
- vi. Introduction to Scientific Bee keeping (Folders)
- vii. Nursery Management (Folders)

#### **2.1.12 Media Coverage:**

- i) Success story under ARYA on Vermicomposting (Hnahthial, Mizoram) uploaded on 10<sup>th</sup> October 2022 at KVK Lunglei official Youtube channel.
- ii) Documentation of various enterprises under ARYA Project, KVK Lunglei, Mizoram uploaded on 14<sup>th</sup> November 2022 at KVK Lunglei official Youtube channel

#### **2.1.13 Mention if any Youth under ARYA Project has discontinued his/her enterprise as Individual /Group and reason thereof.**

- i) Three youths from the poultry sector could not continue with the project due to health problems
- ii) Two youth from piggery sector could not continue with the project as their farm was infected with African swine fever and the entire pigs had to be culled.

### 2.2.1 Name of the KVK: KVK-Senapati, Manipur

### 2.2.2 Project Initiation: 2016-17

**2.2.3 District Profile:** ARYA Project is being implemented in 12 (twelve) villages of Senapati District. The villages under operation are located at altitudes ranging from 800m to 2800m from MSL with gentle to steep slopes. The soil of these villages varies from red loamy to clay loam with average 5.7pH. These villages receive an annual average rainfall of 1200mm with temperature ranging from 3°C in winter and to as high as 34°C in summer. The agro-climatic condition of these village falls under two groups i, e. mid temperate and sub-tropical.

**2.2.4 Identification of Youth (Age group and Number of Youth):** 18-35 years of age group and 221 youths

### 2.2.5 Name of the co-operating institutions for technical support:

1. Central Agricultural University, Imphal
2. Indian Council of Agricultural Research, Imphal
3. State Line Department

### 2.2.6 Enterprise Details

- **Discipline area:** Secondary Agriculture
- **Name of Enterprise:** Mushroom production
- **Objectives of the Enterprise:** Production of quality fresh mushroom
- **Detailed description:** Avg. size : 220 fruiting bags capacity per unit with annual production capacity of 1760kgs of fresh mushroom, 40 no. of youth established their own units and the operational cost per unit = Rs. 40,000/-
- **Input/ Support Provide:** Spawn, low cost housing structure, training and others material input.
- **Progress Made:** Out of 20 total units 17 nos. of unit are running in a sustainable manner earning net average income of Rs. 10, 3200 per person/year.

### Discipline area: Livestock

- **Name of Enterprise:** Poultry
- **Objectives of the Enterprise:** Poultry rearing for meat purpose
- **Detailed description:** 50 nos. of youths established their own units with



an average size of 200 birds per unit (per cycle) and the operational cost per unit (for 2 cycles a year) = Rs. 125750/-

- **Input/ Support Provide:** feeds, chicks, shelter, training and vety. medicine
- **Progress Made:** Out of 50 nos. of youths 38 nos. of youths are running the units in a sustainable manner with an average income of Rs. 1, 24,250 per person per year from 2nos. of production cycles.

**Discipline area:** Livestock

- **Name of Enterprise:** Piggery
- **Objectives of the Enterprise:**
  1. Rearing for meat purpose (fattening purpose)
  2. Piglets production
- **Detailed description:** 24 nos. of youths established their own units (8 groups) with an average size of 10 pigs per unit and cost of production per unit = Rs. 1,80,000/-.One piglets production units was also established with a ratio of 2 males and 10 females and owned by 6 youths with the operational cost per unit = Rs. 2,50,000/-
- **Input/ Support Provide:** feeds, Piglets, shelter, training and vety. medicine
- **Progress Made:** out of total 8 units, 6 units are running in a sustainable manner with a net average income of Rs. 68,333 per person per year and 1 group is running the pig breeding unit in a sustainable manner with an annual production of 180-190 piglets, earning net average income of Rs. 1,23,333 per person per year.

**Discipline area:** Fishery

- **Name of Enterprise:** Fish production (pond with biofloc)
- **Objectives of the Enterprise:** Rearing of fish for table purpose
- **Detailed description:** 30nos. of youths established their own units through 10 groups with an average size of 7000 fingerlings per unit and the operational cost per unit = Rs. 221520/-
- **Input/ Support Provide:** feeds, fingerlings, training and construction of fish pond and biofloc
- **Progress Made:** out of total 30.nos of youths 27 youths are running the units in a sustainable manner with a net average income of Rs. 164827 per person per year.

### Discipline area: Plantation horticulture

- **Name of Enterprise:** Large Cardamom production
- **Objectives of the Enterprise:** Production of large cardamom(dry capsules)
- **Detailed description:** 50nos. of youths established their own units through 10 groups with an average size of 2ha per unit and operational cost per unit = Rs. 30000/-
- **Input/ Support Provide:** training and cost of manure
- **Progress Made:** out of total 10 units with 50 nos. of youths, only 6 units (30 youths) are running in a sustainable manner with a net average income of Rs. 20400 per person per year with expansion of area under cardamom cultivation.
- **Discipline area:** Protected cultivation of ornamental plants
- **Enterprise:** Floriculture
- **Objective of the Enterprises:** Flower production for income generation
- **Detailed description:** 21 units of floriculture with unit size of 60 ft X 25 ft were established involving 21 nos. of migrant youths.
- **Input/Support Provided:** Shed net and poly sheet, training and support for operational cost.
- **Progress Made:** Total of 21 units with 21 nos. of migrant youths are running in a sustainable manner with a net average income of Rs. 142000 per person per year.

### 2.2.7 Capacity Development

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Floriculture	Income generation through floriculture	1	0	20	20
Mushroom production	Value addition and marketing of mushroom	1	5	15	20
Plant Protection	Rodent management in large cardamom cultivation	1	20	0	20
Fish production	Management of fish culture in biofloc farming	1	12	8	20

## 2.2.8 Economic Profitability

Name of Enterprise	Area (Acre)/ No.	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. per Unit per year)
Mushroom	220 fruiting bag capacity	40000	246400	206400
Poultry	200 birds per cycle	125750	250000	124250
Pig production	10 pigs	180000	385000	205000
Pig breeding	10 females and 2 males	250000	990000	740000
Fish	7000 fingerlings capacity	221520	716000	494480
Large cardamom	5 acres/unit	30000	540000	510000
Floriculture	60ft X25ft	33000	175000	142000

## 2.2.9 Income level per Rural Youth

State	Name of KVK	Name of enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Manipur	Senapati	Mushroom	34 youths	71520	103200	31680
		Poultry	38 youths	75000	124250	49250
		Pig	18	30000	68333	38333
		Pig breeding	6	86940	123333	36393
		Fish	27	2700	132827	105827
		Large cardamom	30	50400	102000	51600
		Floriculture	21	42000	142000	100000

## 2.2.10 Impact:

Indicators	Mushroom	Poultry	Piggery		Fishery (pond cum biofloc)	Large cardamom	Floriculture
			Production	Breeding			
No. of youths established their own entrepreneurial units	40	50	24	6	30	50	21
No. of youths/groups who are running the entrepreneurial units in a sustainable manner	17 groups	38 groups	6 groups	1 group	9 groups	6 groups	21 groups
Average Size of each entrepreneurial unit (e.g. No. of goats/poultry bird/ beehive boxes/pigs etc., per enterprise unit)	220fruits bag capacity per cycle	200 birds per cycle	10pigs	M=2, F=10	12000 fingerlings (2000 / pond & 10000/ tank/year)	2ha/unit	60ft X 25 ft
Per unit cost of production (Rs)	40000	125750	180000	250000	221520	30000	33000
Sale value of the produce in the market: Rs/Kg or Rs/Qtl	Rs. 140/kg	Rs.250/ kg	Rs 350/kg	Rs. 5500/ piglet	Rs.280 & Rs 300/kg	Rs. 600/kg	Rs. 250-800/ pots
Economic gains from the entrepreneurial units Rs/ unit/year	206400	124250	205000	740000	494480	510000	142000
Employment generated due to establishing entrepreneurial units: No. of youths who got employment for how many days in a year	9120 mandays for 40 youths	12500 mandays for 50 youths	2904 mandays for 24 youths	1092 mandays for 6 youths	3660 mandays for 30 youths	5000 mandays for 50 youths	6300 mandays for 21 youths
Average Employment Generation (No. of days): Per person/ Year	228days	250days	121 days	182 days	122 days	100days	300 days
Av. Income Generation (Rs): Per person/Year	103200	124250	68333	123333	164827	102000	11833
How many farmers in the village started this Enterprise?	6	3	4	-	5	-	3
Did it spread to the neighbouring villages? If so, specify no. of villages	5	5	2	-	5	-	-
No. of migrants benefitted	-	2	-	-	-	-	15

### 2.2.11 Publications: 2 leaflets

- i. Crop calendar for large cardamom
- ii. Cultivation practices of large cardamom

### 2.2.12 Convergence/Network established with other Departments/ Projects/ Schemes for strengthening ARYA Enterprises

- Spice Board of India (SBI) proceeded financial assistant to 20 cardamom youths of ARYA Project, covering 10 ha under cardamom cultivation till date.
- NABARD, Senapati branch advanced grant in aid to 3 unit comprising of 9 youths of piggery unit under ARYA project

### 2.2.13 Problems faced by ARYA Entrepreneurs:

- Marketing for large cardamom
- Lack of storage facilities for cut flower
- Epidemic outbreak of diseases for fish and poultry
- Lack of concentrate feeds.

### 2.2.14 Mention if any Youth under ARYA Project has discontinued his/her enterprise as Individual/ Group and reason thereof

1. Cardamom: 7.5 % of total youths discontinued due to natural calamity (land slide)
2. Poultry: 6 % of total youths discontinued due to job offered by other organization.
3. Piggery: 1.8 % of total youths discontinued due to change of resident.
4. Fishery: 2.7 % of total youths discontinued due to natural calamity (land slide)
5. Mushroom : 3.2 % of total youths discontinued due to unattractive income

### 2.3.1 Name of KVK: Krishi Vigyan Kendra, Wokha

### 2.3.2 Project Initiation: 2015-16

### 2.3.3 District Profile (In details):

Particulars	No/percentage
Total population of district	2,31,217
No of farmers family	1,68,788

Agriculture labourer	35,050
Total unemployed youth male	17,691
Total unemployed youth female	12,444
No of GP/VC	133
Village covered till dated	72
No. of youth covered during the year	20
% Literacy rate	87.69%

**2.3.4 Identification of Youth (Age group and number of youth):** Educated unemployed rural youth between the age group (18-35) years, 20 no. of rural youths

**2.3.5 Name of co-operating institutions for technical support:**

1. ICAR Research Complex for NEH Region, Nagaland centre
2. District Veterinary Officer, Wokha
3. District Agriculture Officer, Wokha
4. District Horticulture Officer, Wokha
5. District Soil Conservation Officer, Wokha

**2.3.6 Enterprise Details**

**Enterprise I (Pig Breeding Unit)**

**Discipline area:** Animal Science

- **Name of Enterprise:** Piggery Enterprise
- **Objectives of the Enterprise:** The objective of the piggery enterprises in Wokha district is to maintain pure breeds of animal for breeding purpose and to produce quality piglets for sale and for further breeding and to have proper breeding system, feeding, management, disease and mortality control. To supply good quality piglets to the farmer private breeders, Govt. farms in or outside the State on demand. It can be also use or serve as a demonstration farm to the public in general about the methods of rearing pigs with improved practices.
- **Detailed description:** From January 2022 to December 2022, two no. of piggery enterprises was established in Wokha district of Nagaland involving 4 nos. of rural unemployed youths. From among the 25 nos. of rural youths trained under ARYA project, 4 rural youths was selected



based on their skill, knowledge and attitude towards pig farming. After completion of training and sites verification, they were provided with materials for construction of 5 nos. of pig sty each. Timely monitoring is ongoing by the staff of ARYA project.

- **Input/ Support Provide:**

- i. Construction materials of 5 no. of pig stys for 2 units
- ii. 10 Hampshire cross piglets (1 male + 4 females) for 2 units
- iii. 200 kg creep pig feeds
- iv. Vaccine, vitamin, de-worming and mineral mixture etc

- **Progress Made:** The piglets were distributed during the month of May, 2022 due to non-availability of piglets on time and are yet to attain its maturity for breeding purpose.

## **Enterprise II (Poultry production Unit)**

**Discipline area:** Animal Science

- **Name of Enterprise:** Poultry Enterprise

- **Objectives of the Enterprise:**

- i. To generate income for self-employment.
- ii. To serve as the demonstration farm to the public in general about the methods of rearing with improved practices.
- iii. To supply poultry meat, egg and improved breeding stock to the farmers at the reasonable rates affordable by them.

- **Detailed description:** For entrepreneurship development in poultry farming, 25 nos. of rural youth's was trained with the appropriate knowledge and skills related to Scientific Rearing & Management of Poultry. 2 nos. of rural tribal youths is undergoing establishment of poultry enterprise.

- **Input/ Support Provide:**

- i. Construction materials for 2 no. of poultry shed.
- ii. 500 Vanarja/Srinidhi chicks (250 each)
- iii. 200 kg of poultry feed
- iv. Vaccine, vitamin, de-worming and mineral mixture etc

- **Progress Made:** The 2 units has sold around Rs. 25,000 worth of egg (2,500 eggs @ Rs.10/ egg) and Rs. 3,50,000 of live meat (1,100 kg of meat @ Rs. 320/ kg) from two batch during the period of 2022. The unit has earned a profit of around Rs. 87,500 each during the period.

### **Enterprise III (Mushroom production Unit)**

**Discipline area:** Horticulture

- **Name of Enterprise:** Mushroom Enterprise
- **Objectives of the Enterprise:**
  - i. To strengthen the promotion of mushroom cultivation.
  - ii. To provide the Unit with appropriately trained personnel for the promotion of mushroom production in the district.
  - iii. To increase the production and consumption of mushrooms.
  - iv. To help create new employment opportunities for rural youth and the women through mushroom cultivation.
  - v. To empower rural communities with entrepreneurial skills through the production and sale of mushrooms.
- **Detailed description:** For entrepreneurship development, 25 nos. of rural tribal youths were trained with appropriate knowledge and skills related to Mushroom cultivation for entrepreneurship development. 2 rural youths had established 3 nos. of mushroom enterprise during Jan. to Dec. 2022.
- **Input/ Support Provide:**
  - i. Construction materials for mushroom house.
  - ii. 200 nos. of mushroom spawn
- **ProgressMade:** From 2 units, an average 750 kg mushroom were harvested and got profit of Rs. 1, 50,000 during 2022. The mushroom is marketed in the local markets in Wokha town as well as neighboring villages either through direct selling to consumer or through ARYA marketing group.

### **Enterprise IV (Cut flower production Unit)**

**Discipline area:** Horticulture

- **Name of Enterprise:** Low cost poly house
- **Objectives of the Enterprise:**
  - i. To strengthen the promotion of cut flower production.

- ii. To provide the Unit with appropriately trained personnel for the promotion of different kind of flower production in the district.
- iii. To balance the demand and supply chain of flower especially during festive season.
- iv. To help create new employment opportunities for rural youth and the women through cut flower production.
- **Detailed description:** For entrepreneurship development, 25 nos. of rural tribal youths were trained with appropriate knowledge and skills related to cut flower production for entrepreneurship development. 12 rural youth was selected to set up low cost poly house for cut flower production.
- **Input/ Support Provide:**
  - i. Construction materials for 4 no. of low cost poly house.
- **Progress Made:** Seasonal flower bulbs (*Gebera*, *lilium* etc.) was provided to the beneficiary, the bulb are in growing stage and is yet to bloom.

### 2.3.7 Capacity Development:

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Scientific Rearing and Management of pigs	Breeds, housing and feed management, vaccination, health care management.	2	35	15	50
Scientific Rearing and Management of poultry	Breeds, housing and feed management, vaccination, health care management.	2	18	32	50
Mushroom cultivation for entrepreneurship development	Hygienic preparation of mushroom, disease management, packaging and marketing.	2	15	35	50
Cut flower production under low cost poly house	Preparation of soil, method of planting the flower bulb, harvesting of flower and marketing strategy for flower distribution.	2	10	40	50

### 2.3.8 Economic Profitability:

Name of Enterprise	Area (Acre)/ No.	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. per Unit per year)
Piggery	10 pig	1,60,000	Yet to furrow	Yet to furrow
Poultry	250 birds/cycle	1,20,000	3,50,000	1,75,000
Low cost Cut flower	300 saplings/ batch	1,50,000	Flowering stage	Flowering stage
Mushroom	150 bags/cycle	70,000	1,50,000	1,00,000

### 2.3.9 Income level per Rural Youth:

State	Name of KVK	Name of enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Nagaland	KVK, Wokha	Piggery	4 youth (2 unit)	Yet to	Yet to	Yet to
		Poultry	2 youth (2 unit)	25,000	87,500	62,500
		Low cost Cut flower	12 youth (4 unit)	Yet to	Yet to	Yet to
		Mushroom	2 youth (2 unit)	20,000	50,000	30,000

### 2.3.10 Impact:

Sl. No.	Impact Parameters	Piggery unit	Poultry unit	Mushroom unit	Cut flower unit
1	No. of beneficiary under ARYA project who have received loan under Chief Minister Micro-Finance Loan (Nagaland) for further expansion of their units	3	1	1	0
2	No. of rural youths that has approached KVK Wokha for more information regarding ARYA project	35	29	23	16

3	No. of rural youths visiting ARYA project beneficiary sites for exposure visit	15	7	10	12
4	No. of farmers/ students/ farm women visit the project sited for exposure	54	40	30	36
5	No. of rural youth that has established their own unit by themselves without the help of KVK, Wokha	5	4	4	2

**2.3.11 Publications :** 02 no. of folders on poultry and piggery farming

**2.3.12 Media Coverage** (Mention with relevant information): Popular articles on success stories of pig and poultry in local newspaper.

**2.3.13 Convergence /Network established with Other Departments/Projects/ Schemes for strengthening ARYA Enterprises :**

- Convergence with Deputy Commissioner, Wokha and Veterinary department in helping the beneficiary under ARYA project for applying Chief Minister Micro Finance Initiative Subsidized loan under Government of Nagaland.
- Convergence with TSP of KVK Wokha
- Convergence with National Rural Livelihood Mission (NRLM)
- Convergence with ATMA and skill development officer in respect to capacity training
- Convergence with District Horticulture Office, Wokha in setting up High tech Poly house.

• **Problems (if any) faced by ARYA Entrepreneurs:**

- Water scarcity during the lean season. Need water harvesting structure
- Timely non-availability of good quality pig/piglet, poultry feed, mushroom spawns and flower bulb.
- Credit facility for the beneficiary.

**2.4.1 Name of KVK: Krishi Vigyan Kendra Jaintia Hills**

**2.4.2 Project Initiation: 2019-20**

### 2.4.3 District Profile (In details):

Particulars	No/percentage
Total population of district	2,70,352 (2001census)
No of farmers family	59,781
Agriculture labourer	36,295 (2001census)
Total unemployed youth male	723(source Employment exchange)
Total unemployed youth female	2222 (source Employment exchange)
No of GP/VC	
Village covered till dated	23
No. of youth covered during the year	35
% Literacy rate	63.23%

### 2.4.4 Identification of Youth (Age group and number of youth): Age Group: 18-35

**Number of Youth:** 5 per group

### 2.4.5 Name of co-operating institutions for technical support:

- Department of Horticulture.
- Agriculture Department.
- Veterinary Department.

### 2.4.6 Enterprise Details

**Discipline area: Plant protection.**

**Name of Enterprise I:** Mushroom Production

- **Objectives of the Enterprise:**
  - Stable income generation from subsidiary agriculture enterprises.
  - To encourage effective and optimize use of natural resources.
  - To address and promote effective marketing of locally grown products for addressing food demands of the local population.
- **Detailed description:** A group consist of 5 youths who were trained have been selected for promoting mushroom production as an enterprise. The youths have been oriented about the aims and objectives of the project and are willing to take the support from the project and grow the enterprise.

- **Input/ Support Provide:** A 50% financial assistance has been provided for the youth for construction of the low-cost mushroom house of 12 by 15 ft.
- **Progress Made:**
  - i. Youth have just completed growing 5 cycles.

### Enterprise II

- **Discipline area: Agronomy**
- **Name of Enterprise:** Vermicompost Production
- **Objectives of the Enterprise:**
  - i. Stable income generation from subsidiary agriculture enterprises.
  - ii. To encourage effective and optimize use of natural resources.
  - iii. To address and promote effective marketing of locally grown products for addressing food demands of the local population.
- **Detailed description:** A group consist of 5 youths who were trained not from ARYA Project have been selected for promoting Vermicompost production as an enterprise. The youths have been oriented about the aims and objectives of the project and are willing to take the support from the project and grow the enterprise.
- **Input/ Support Provide:** A 43% financial assistance has been provided for the youth for construction of the low-cost vermicompost unit 3mx1mx0.6m (5 nos.).
- **Progress Made:** From the Jan – Dec of 2022 the youths are producing are producing 660 kg of vermicompost manure.

### Enterprise III

- **Discipline area: Animal Husbandry and Veterinary**
- **Name of Enterprise:** Poultry Production
- **Objectives of the Enterprise:**
  - i. To improve the socio-economic status of the rural employed youths in the district
  - ii. To motivate the rural youths in taking up poultry enterprise as a business model for employment generation
  - iii. To meet the increasing demand of meat and egg in the district
  - iv. To sensitize the youths on the importance of poultry production

- **Detailed description:** A group consists of 5 youths who have been practicing have been selected for promoting Poultry production as an enterprise. The youths have been oriented about the aims and objectives of the project and are willing to take the support from the project and grow the enterprise.
- **Input/ Support Provide:** 45% of the total cost of construction of the poultry shed.
- **Progress Made:**
  - i. The construction of shed is complete.
  - ii. 300 birds have been purchased by youths and are still under growing stage.
  - iii. The youths are supplying birds to other farmers in the district at the rate of Rs. 130-180 per birds.

#### Enterprise IV

##### Discipline area: Animal Husbandry and Veterinary

**Name of Enterprise:** Piggery enterprise

- **Objectives of the Enterprise:**
  - i. To develop young entrepreneurs for taking up pig farming as a business venture for income generation
  - ii. Tribal youths will be trained to become skilled and their livelihood will be secured
  - iii. To generate year-round income of the youths from pig breeding.
  - iv. To meet the increasing demand of pork in the district.
- **Detailed description:** A group consists of 5 youths who have been practicing pig breeding have been selected for promoting Breeding production as an enterprise. The youths have been oriented about the aims and objectives of the project and are willing to take the support from the project and grow the enterprise.
- **Input/ Support Provide:** 50 percent from the total cost of construction was provided to the group of youths.
- **Progress Made:**
  - i. Till date there around there are 5- 15 no of piglets available in each unit.
  - ii. The youths are selling the piglets at Rs. 4,500-5,000 per piglet.
  - iii. The youths are also raising the piglets for fattening purpose.



## Enterprise V

### Discipline area: Horticulture

**Name of Enterprise:** Value addition of Turmeric (Lakadong)

- **Objectives of the Enterprise:**
  - i. To develop young entrepreneurs for value addition of turmeric Lakadong
  - ii. Tribal youths will be trained to become skilled and their livelihood will be secured
  - iii. Value addition of Lakadong turmeric with proper drying, processing, packaging and branding of the processed product.
  - iv. To generate year-round income of the youths from turmeric powder.
  - v. Marketing and branding of the products will be developed.
- **Detailed description:** Youth between the 18 to 35 years old are selected base on their capability to run the Enterprise. Skilled youth are to form a group of 10 members and they are to contribute a minimum of 50% from the total cost of estimate for the construction of the Enterprise. The youths have been oriented about the aims and objectives of the project and are willing to take the support from the project and grow the enterprise.
- **Input/ Support Provide:** Grinder
- **Progress Made:** Due to in capable of the selected youth. It has been decided to select different group.

#### 2.4.7 Capacity Development

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Income generation	Oyster Mushroom Cultivation	1	2	18	20
On and off farm waste management	Vermicomposting	1	2	18	20
Poultry production	Poultry Farming	1	10	10	20
Pig Production	Piggery Farming	1	15	5	20
Value Addition	Value addition of Turmeric	1	15	5	20

## 2.4.8 Economic Profitability:

Name of Enterprise	Area (Acre)/ No.	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. per Unit per year)
Mushroom Production	12 x 15 Sq. ft. For 80 bags capacity	1,11,185 for 5 cycle	2,30,000 for 5 cycle	1,18,815 for 5 cycle
Vermicompost	3mx1mx0.6m (10 nos.)	89,000	1,43,250	54,250 for 3 harvest
Poultry Enterprise	900 Sq. ft.	7,54,300	17,48,000	9,93,700
Piggery Enterprise	1000 Sq. ft. for 10 pigs	3,15,000	6,33,000	3,18,000
Value addition of Turmeric (Lakadong Var.)	One unit	-	-	-

## 2.4.9 Income level per Rural Youth:

State	Name of KVK	Name of enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Meghalaya	Krishi Vigyan Kendra, Jaintia Hills	Mushroom Production	1	39,000	62,763	23,763
		Vermicompost	1	90,600	1,02,120	11,520
		Poultry Enterprise	1	1,77,600	1,98,740	21,140
		Piggery Enterprise	1	70,000	1,33,600	63,600
		Value addition of Turmeric (Lakadong Var.)	1	71,000	--	--

## 2.4.10 Impact:

Indicators	Mushroom	Vermicompost	Poultry	Piggery Breeding	Value addition Turmeric
Employment generated due to establishing entrepreneurial units: No. of youths who got employment for how many days in a year	5 no	5 no	5 no	5 no	10 no
Average Employment Generation (No. of days): Per person/ Year	15 days	22 days	45 days	45 days	
Av. Income Generation (Rs): Per person/Year	9,268 (apart from other income generating work)	11,520 (apart from other income generating work)	1,98,740 (apart from other income generating work)	63,600 (apart from other income generating work)	
How many farmers in the village started this Enterprise?	5	6	80	20	
Did it spread to the neighbouring villages? If so, specify no. of villages	2	3	3	7	
No. of youths visiting the enterprise	10	40	120	60	
No. of migrants benefitted	Nil	Nil	Nil	Nil	Nil

#### **2.4.11 Publications : Video**

**2.4.12 Media Coverage:** One Video was broadcasted by Doordarshan Kendra for Poultry enterprise.

#### **2.4.13 Convergence /Network established with Other Departments/Projects/ Schemes for strengthening ARYA Enterprises (Mention in Detail):**

##### **Poultry Enterprise:**

1. Youths received financial assistant from bank under Kisan credit Card (KCC) Scheme for upscaling their enterprises.
2. Youths also received support from Mahatma Gandhi National Rural Employment Guarantee Act 2005 (MGNREGA) for construction of poultry shed

##### **Piggery Enterprise:**

1. Youths received assistant for state department under the Piggery Mission to upscaling their enterprise.
2. Youths also received support from Mahatma Gandhi National Rural Employment Guarantee Act 2005 (MGNREGA) for construction of pig sheds

##### **Mushroom Production:**

1. Youths received training and demonstration through Meghalaya State Rural Livelihoods Society (MSRLS)
2. Youths received assistant from state department regarding Oyster mushroom spawn at a subsidy rate with high quality spawn.

##### **Vermicompost Production:**

1. Our KVK is under process to linked ARYA youths with state department to supply Vermicompost Manure and in turn distributed back to other farmers at a subsidy rate.
2. The youths also have market link with Meghalaya Block Development Agency under NRLM

#### **2.4.14 Problems (if any) faced by ARYA Entrepreneurs:**

1. Mushroom Production Enterprise: Ready availability of Spawn, Maintenance of cropping room during rainy season that is pest infestation is high.
2. Vermicompost Production Enterprise: Demand for lower price of the vermicompost leading to lag in marketing of the product.
3. Poultry Production: high cost of feed
4. Piggery Enterprise: high cost of feed, demand for low price of piglets.

#### 2.4.15 Mention if any Youth under ARYA Project has discontinued his/her enterprise as Individual /Group and reason thereof.

1. One group from Lumkhudung under poultry production has discontinued due to personal group issue.
2. One group from Shangpung under value addition of turmeric (Lakadong) due to incapability of the group.

#### 2.5.1 Name of KVK: KVK Tuensang, Nagaland

#### 2.5.2 Project Initiation: 2019

#### 2.5.3 District Profile (In details):

Particulars	No/percentage
Total population of district	196596
No of farmers family	81.29%
Agriculture labourer	51.84%
Total unemployed youth male	81.56%
Total unemployed youth female	18.44%
No of GP/VC	144
Village covered till dated	21
No. of youth covered during the year	8763
% Literacy rate	73.08

#### 2.5.4 Identification of Youth (Age group and number of youth):

Sl.No	Enterprise	Age Group	Number of Youths
1	Mushroom Cultivation	18-30	65
2	Nursery Raising of Vegetables	18-30	61
3	Off-season Vegetable Production	18-30	84

#### 2.5.6 Name of co-operating institutions for technical support:

1. ICAR Research Complex for NEH Region, Nagaland Center, Jharnapani.
2. Nagaland University, Medziphema

### 2.5.7 Enterprise Details:

#### Enterprise-1:

**Discipline/area:** Crop Production

**Name of Enterprise:** Mushroom Cultivation

#### Objectives of the Enterprise:

1. To attract and empower the youth with technical knowledge and skills in mushroom cultivation
  2. Engage them in income generating agricultural activities, developing them into entrepreneurs.
- **Detailed description:** To develop entrepreneurship, 62 youths were trained with appropriate knowledge and skills related to mushroom production. 5 youths were selected in the first phase to established Mushroom production enterprise in the year 2022-23. Selected youth were supplied with 100 pkts of spawn for making 250 mushroom bags on an average for starting the production process. From each unit, 615kg of mushroom at an average was harvested worth of Rs.1,31,850. Thus, a youth earned Rs. 56,850 annually. Farmers usually sell their produce by direct marketing in daily market or by local home delivery channels.
  - **Input/ Support Provided:**
    1. Low cost mushroom house (450 ft<sup>2</sup>)
    2. Mushroom spawns 100 pkts of spawn for per unit per batch.
    3. PP bags, sprayer, utensils, Syntax, weighing scales etc., for six unit
  - **Progress Made:** 5 entrepreneurial units are running in a sustainable manner

#### Enterprise-2:

**Discipline/area:** Horticulture

**Name of Enterprise:** Nursery raising of vegetables

#### Objectives of the Enterprise:

1. Encourage youth to earn money through nursery raising
  2. Empower their skills and technical knowledge in horticulture production system
- **Detailed description:** Humid weather distributed throughout the growing season of crops, it is very much difficult to raise seedlings outside.

To develop entrepreneurship, 60 youths were trained with appropriate knowledge and skills related to Nursery Raising of Vegetables. 15 youths were selected to established production enterprise in the year 2022-23. Selected youth were supplied with vegetable seeds of Cabbage, Cauliflower, Tomato, Broccoli, Capsicum, and Cucumber along with low-cost poly tunnel construction materials for starting the production process. From each unit (1000 sq ft) 84000 nos of seedling approx.having worth of Rs.1,71,500 were produced. Thus a youth earned Rs.1,21,750 annually.

- **Input/ Support Provided:**

1. Low cost polyhouse (1000sq ft size)
2. Knapsack sprayer, Rose can.
3. Trichoderma Viridae @2 Kg per unit
4. Diffrent vegetable seeds.
5. Organic nutrients.
6. Plant protection chemicals.

- **Progress Made:** 15 entrepreneurial units are running in a sustainable manner

### **Enterprise-3:**

**Discipline/area:** Horticulture

**Name of Enterprise:** Off-season vegetable cultivation

#### **Objectives of the Enterprise:**

1. To attract and empower the youth with technical knowledge and skills in Off-season cultivation
  2. Engage them in income generating agricultural activities, developing them into entrepreneurs
- **Detailed description:** To develop entrepreneurship, 60 youths were trained with appropriate knowledge and skills related to Off-season vegetable Cultivation.5 youths were selected to establish low cost poly house in the year 2022-23. Selected youths were supplied with different vegetable seeds along with low cost poly house construction materials for starting production process.From each unit (25x40 ft) 341 kg of vegetables worth of Rs.2,28,000 were produced. Thus a youth earned Rs.1,41,500 annually.

- **Input/ Support Provided:**

1. Low cost polyhouse (1000sq ft size)
2. Knapsack sprayer, Rose can.
3. Trichoderma Viridae @2 Kg per unit
4. Different vegetable seeds.
5. Organic nutrients.
6. Plant protection chemicals

- **Progress Made:** 5 entrepreneurial units are running in a sustainable manner

### 2.5.8 Capacity Development:

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Mushroom Cultivation	Production Technology of Oyster Mushroom	04	14	48	62
Nursery Raising	Skill development Training on Nursery Raising of Vegetables	05	41	19	60
Off season Vegetable Production	Training programme on Protected Cultivation of Vegetable Crops	04	38	22	60

### 2.5.9 Economic Profitability:

Name of Enterprise	Area (Acre)/ No.	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. per Unit per year)
Mushroom Cultivation	15x30 sq ft, 600 bag/unit/year	75,000	1,31,850	56850
Nursery Raising of Vegetables	1000 sq ft (20x50) 50000 no of seedlings/ unit/season	49,750	1,71,500	Rs.1,21,750
Off season Vegetable Production	25x40 ft 5000 nos of plants/ unit/year	86,500	2,28,000	Rs.1,41,500



### 2.5.10 Income level per Rural Youth:

State	Name of KVK	Name of enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Naga-land	Tuensang	Mushroom Cultivation	05	Rs.13,500	Rs.56,850	Rs.43,350
		Nursery Raising of Vegetables	15	Rs.13,000	Rs.1,21,750	Rs.1,08,750
		Off season Vegetable Production	05	Rs.13,000	Rs.1,41,500	Rs.1,28,500

### 2.5.11 Impact:

Indicators	Mushroom	Nursery Raising of Vegetables	Off-season Vegetable Production
No. of youths established their own entrepreneurial units	05	15	05
No. of youths/groups who are running the entrepreneurial units in a sustainable manner	05	15	05
Average Size of each entrepreneurial unit (e.g. No. of goats/poultry bird/beehive boxes/pigs etc., per enterprise unit)	100 pkts of spawn in each batch	1000 sq.feet	1000 sq.feet
Per unit cost of production per year	75000	49750	86500
Economic gains (NR) from the entrepreneurial units Rs/unit/year	56,850	1,21,750	1,41,500
Employment generated due to establishing entrepreneurial units: No. of youths who got employment for how many days in a year	6 youths 55 days/year	05 youths 90 days/year	10 youths 110 days/year

Average Employment Generation (No. of days): Per person/ Year	55 days/ unit/year	90 days/ unit/year	110 days/unit/ year
Av. Income Generation (Rs): Per person/Year	56,850	1,21,750	1,41,500
How many farmers in the village started this Enterprise?	27	19	05
Did it spread to the neighbouring villages? If so, specify no. of villages	02	05	05
No. of migrants benefitted	Nil	Nil	Nil

**2.5.12 Publications:** Leaf lets-3 Nos

**2.6.1 Name of the KVK: KVK Dhalai, Salema**

**2.6.2 Project Initiation:** 2018-19

**2.6.3 District Profile:**

Particulars	No/percentage
Total population of district	3,78,230
No of farmers family	80,822
Agriculture labourer	2,87,280
Total unemployed youth male	71%
Total unemployed youth female	78%
No of GP/VC	GP - 41, VC - 110
Village covered till dated	19
No. of youth covered during the year	40
% Literacy rate	96.79

**2.6.4 Identification of Youth (Age group and Number of Youth):**18-35 Years

**2.6.5 Name of the co-operating institutions for technical support:**

1. College of Agriculture, Lembucherra, Agartala, Tripura
2. College of Veterinary Sciences & A.H, Bodhjung Nagar, Agartala, Tripura
3. ICAR Research Complex, Tripura Centre, Lembucherra, Debendra Chandra Nagar, Tripura
4. Animal Resources Development Department. Govt. of Tripura
5. Department of Agriculture and Farmers Welfare, Govt. of Tripura

### 2.6.6 Enterprise Details

**Discipline area:** Animal Science

**Name of Enterprise:** Piggery Farming

- **Objectives of the Enterprise:**
  1. To increase the number of high-quality piglets in a village.
  2. To encourage rural youth to become entrepreneur by developing their skills through training and demonstration.
  3. To encourage pig farming using scientific technology in rural areas.
  4. To assist young people in developing self-employment through various forms of agri-allied farming.

**Name of Enterprise:** Goatery Farming

- **Objectives of the Enterprise:**
  1. To produce good quality goat kid at village level.
  2. To develop entrepreneurship among the rural youth by skill development through training and demonstration.
  3. To develop self-employment through different agri-allied farming by providing support for the youth.
  4. To promote the scientific farming of goat.

**Discipline area:** Agronomy

**Name of Enterprise:** Vermicompost

- **Objectives of the Enterprise:**
  1. For facilitating the farmer in organic farming activities through supply of plant nutrients.
  2. To minimize the cost of cultivation through reduced use of chemical fertilizers.
  3. To manage the crop residue without burning.
  4. To produce high quality food.
  5. To encourage the rural youth for income generation through vermi composting.

**Discipline area:** Plant Protection

**Name of Enterprise:** Year round Oyster Mushroom cultivation

- **Objectives of the Enterprise:**

1. To provide year round quality mushroom spawn.
2. To provide training rural youth for mushroom cultivation
3. Provide the farmers basic facilities to establish mushroom farming unit.
4. Awareness programme to motivate the farmers under mushroom farming.

**Detailed description:**

Dhalai district is situated in the North-eastern part of Tripura. Dhalai district covers an area of about 2426 sq km. More than 70% area is hilly and forest covered. Small, marginal, and landless labourers are especially suited to goat rearing under small hilly land farming system. Compared to other livestock-based enterprises, it requires fewer grazing acres, has a lower initial investment, and involves less risk, making it an economically viable venture for youths in rural areas. The rural youth could engage in agro-enterprises by promoting relevant agricultural technologies and offering capacity training for creating micro-enterprises. Pig farming, goat farming, vermicompost and mushroom cultivation were among the interventions carried out as part of the ARYA initiative.

Before ARYA project implementation, Pig farming & Goat rearing were a small scale activities and not as an enterprise as main source of income. Local breeds reared by farmers have low yields due to high mortality and low feed conversion and also poor nutritional status is also a factor.

Piggery contributes about 30% of the total meat production in the state. Pigs are the most common and preferred livestock species in Dhalai district and mostly reared by the weaker section as well as the unemployed youth of the district. Before ARYA initiative farmers were rearing in small scale without integration. After training, the youths could know the potential of integrated pig farming and many of them started the technology of integrated pig farming.

In case of goater, before the initiative of the project the mortality of goat kid was high and the growth rate was very low as they were not practicing vaccination and other preventive measures. After the ARYA initiative time to time advices through whatsapp helps them to take immediate action to be taken regarding the problem. They started following the vaccination schedule to for the goats which help in reducing the mortality. Training helped them in selecting good quality goat breeds which improve the growth rate and disease resistance.

Vermicomposting was not popular among rural youths before the intervention of ARYA program. After implementation of ARYA vermicomposting techniques became popular among the rural youth and they started it for generating compost to utilize in their own farm and also for selling on demand basis. This enterprise helps them to generate income year round for the rural youths.

Mushroom was very popular among the rural youth in the district but due to lack of basic training, most of the interested farmers were not practice the cultivation of mushroom. Moreover, there is no available of mushroom seed in nearby local market. With all these combined factors the mushroom production was very less though there is high demand in the market. With the implementation of ARYA project most of the interested farmers were facilitated with basic oyster mushroom production training. In addition, KVK Dhalai has established one mushroom seed multiplication and preservation unit with the help of ARYA project to provide year round good quality mushroom seeds to the interested farmers. Recently, 25 nos. of anganwadi workers of Salema block were given mushroom training at KVK Dhalai. Now, most of the centers successfully cultivate mushroom and included on their daily food diet menu.

Under ARYA, initiatives were taken like forming youth groups and orienting them in entrepreneurial skills, modern technologies, providing critical inputs and establishing micro-entrepreneurial units. On that purpose Whatsapp groups were formed and time to time advisories provided to the youth regarding different problems related to their enterprise and other technical information were shared with them and tried to clarify their queries regarding different enterprises.

#### **Input/ Support Provide:**

1. Support for piglets, construction and renovation of pig houses, provided guidance for regular vaccination, deworming, and medicine required of pigs, support for feeding bowls, water bowls required for feeding.
2. Support for construction of Vermicompost unit, provided earthworm for the Vermicompost units, technical guidance and monitoring, marketing activities.
3. Provided on hand training to rural youth with basic financial support for the construction of mushroom production unit and further distributed the quality mushroom spawn, spraying machine for maintainace of the unit.

#### **Progress Made:**

1. After adopting ARYA in different villages of the district a total of 6 nos of trainings were provided FY 2022-23 under animal science discipline for a total of 210 nos of piggery as well as goaterly farmers and total 10 nos and 10 nos of rural youth has successfully running the piggery and goaterly enterprise respectably in sustainable manner. They were supported from ARYA project in terms of regular field visit to their farm to provide technical as well as treatment of their animals. Inputs were given like piglets, support for construction of houses, waterer feeding bowls.
2. ARYA helped the rural youth in employment generation. Through ARYA project

a total of 10 no's of Vermicompost unit has been built in several farmers farm unit. With the Vermicompost the farmers completely grown their product by adopting organic farming. This Vermicompost unit provided them the required plant nutrients in their farm and also helped in income generation through the selling of compost on demand basis.

3. Total 10 units of mushroom were established in the 1 cluster villages through ARYA project over the last three years with annual net income of about 60 thousand. With this success, recently most of the rural youth are now interested and participated in mushroom farming training.

## 2.6.7 Capacity Development

Thematic Area	Topic of Training	No. of Courses	No. of Beneficiaries		
			Male	Female	Total
Piggery and Goattery	Scientific pig farming	1	24	6	30
	Feeding of pigs at different stages	1	21	5	26
	Disease of pigs and their management	1	25	7	32
	Scientific goat farming	2	25	38	63
	Scientific feeding of goats	1	14	18	32
	Hands on training in preparation on of pork pickle	1	15	3	18
	Exposure visit	2	48	17	65
Vermicompost	Awareness about Vermicompost	1	18	9	27
	Scientific vermibed preparation	1	21	7	28
	Management of earth worm and harvesting and marketing strategies of Vermicompost	1	25	6	31
	Exposure visit	2	35	23	58
Mushroom	Scientific low cost oyster mushroom farming	1	15	7	22
	Management of pest and diseases in mushroom farming	1	14	21	35
	Techniques of compost preparation for button mushroom	1	18	11	29
	Exposure visit	1	15	28	43
<b>Total</b>					<b>539</b>

## 2.6.8 Economic Profitability

Name of Enterprise	Area (Acre)/ No. of units	Cost of Production (Rs per unit per year)	Gross Return (Rs. Per unit per year)	Net Income (Rs. Per unit per year)
Piggery Farming	9 Piglet (1 Male & 8 Female)	1,44,900	3,62,000	2,17,100
Goatery Farming	12 goat kid(2 Male & 10 Female)	5,000	60,000	55,000
Mushroom Cultivation	10	35,000	89,380	54,380
Vermicompost	10	23000	72000	49000

## 2.6.9 Income level per Rural Youth

State	Name of KVK	Name of Enterprise	No. of Youth running the entrepreneurial units in a sustainable manner	Annual Income per youth before adopting ARYA project (in Rs.)	Annual Income per youth after adopting ARYA project (in Rs.)	Difference in average annual income per youth (in Rs.)
Tripura	KVK Dhalai, Salema	Piggery Farming	10 nos	Rs: 89,000/ youth/year	Rs: 2,23,000/ youth/year	Rs: 1,34,000 youth/year
		Goatery Farming	10 nos	Rs: 15,800 / youth/year	Rs: 55,000 / youth/year	Rs: 39,200 / youth/year
		Vermicompost	10	Rs: 18,200 / youth/year	Rs: 49,000 / youth/year	Rs: 30,800 / youth/year
		Mushroom	10	Rs: 25000 / youth/year	Rs: 85,000 / youth/year	Rs: 60000 / youth/year

## 2.6.10 Impact:

More farmers from various villages in the district showed interest as a result of ARYA's intervention. Number of pigs, goats, vermicompost units, mushroom units etc. increased in the farms of rural youths where action had been taken. It is important to increase the number different units as mentioned earlier in farmer's level at different villages so that more number of rural youth can see and motivate for starting

the farming activities for self-employment and to reduce the migration of the youth for employment opportunities.

**2.6.11 Publications:**

1. Leaflet on Scientific Management of goat.
2. Leaflet on Scientific pig farming.
3. Vermicompost

**2.6.12 Media Coverage : 10 Nos video**

**2.6.13 Convergence /Network established with Other Departments/Projects/ Schemes for strengthening ARYA Enterprises:** TRLM (Tripura Rural Livelihood Mission), Oishobani NGO

**2.6.14 Problems faced by ARYA Entrepreneurs:**

1. Marketing issues faced by rural youth for selling their products (Mushroom, Vermicompost) etc as they are not getting proper price of their products.
2. High cost of feeds and other inputs make them reluctant to adopt different enterprises.

**2.6.15 Mention if any Youth under ARYA Project has discontinued his/her enterprises Individual /Group and reason thereof:** 2 (two) youths discontinued his/her enterprises as there is no market of cut flower, no storage facilities, not getting proper price of their products and 1(one) more youth discontinued as he got other source of income which was more profitable than enterprise under ARYA scheme.





## 3 Chapter

# Success Stories

### 3.1 Piggery Unit, Lunglei

Mr. H. Laltanpuia, a highly qualified individual with a M.Sc. in Botany, hails from Thazawl village. His entrepreneurial journey commenced in 2015 when he ventured into pig farming, utilizing his father's savings. With an initial setup of 5 sows and a boar, he embarked on a path towards sustainable agriculture.



In 2017, Mr. H. Laltanpuia sought skill enhancement through a specialized training program on pig breeding and management facilitated by the Nodal Training Institute, KVK Lunglei. Subsequently, he actively participated in three additional training sessions on Piggery management, leveraging the expertise and resources provided by KVK, Lunglei.

The intervention significantly contributed to the enhancement of his pig farming enterprise. It included the renovation of the pigsty and the expansion of his farm. Technical guidance and support in health care and overall pig management were pivotal elements of the assistance rendered by KVK, Lunglei.

#### Enterprise Details:

- **Name of Enterprise:** Pig Farming
- **Annual Turnover:** ₹ 18,20,000
- **Contact Number:** 9862705655
- **Village:** Thazawl

#### Progress Overview:

- **Year of Enterprise Initiation:** 2015
- **Income Before Intervention:** ₹ 1.1 lakh
- **Year of Intervention:** 2017
- **Introduced Breeds:** Large White Yorkshire & Hampshire



- **Current Farm Capacity:**
- **Breeder Sows with Gilt:** 26
- **Breeder Boar:** 3
- **Piglet:** 250
- **Average Annual Income Post-Intervention:** ₹ 18,20,000

Mr. H. Laltanpuia's pig farming venture has witnessed substantial growth, with an impressive average annual income of ₹ 18,20,000. His success story reflects the potential in pig farming, driven by the substantial market demand. He acknowledges the immense potential in pig farming, crediting the support received for the substantial progress in his enterprise.



The interventions provided by KVK, Lunglei have not only elevated the scale of his operations but also positioned him as a successful and sustainable entrepreneur in the field of agriculture.

### 3.2 Piggery Unit, Lunglei

In the quaint village of Cherhlun, nestled in the heart of Mizoram, a man named H. Lalengmawia embarked on a journey fueled by a lifelong passion for livestock. Born and raised in a household that, like many others in the region, traditionally raised one or two pigs annually for Christmas festivities, H. Lalengmawia's fascination with pig rearing grew deep roots from his childhood. After completing his Bachelor of Arts degree; he took a brief detour, trying his hand at entrepreneurship by establishing a small stationery shop in Hnahthial. However, the venture failed to live up to his expectations, prompting him to reassess his path. With a burning desire to reconnect with his roots and pursue his true calling he made a pivotal decision. In 2013, he returned to Cherhlun, his ancestral village, with a newfound determination. Armed with just three piglets and a vision, he transformed his backyard into the foundation of what would soon become a thriving enterprise in pig farming.



#### Enterprise Details:

- **Name of Enterprise:** Pig Farming
- ? **Annual Turnover:** : ₹ 16,40,000

- **Contact Number:** 8257936624
- **Village:** Cherhlun

Dedicated to both breeding and meat production, Lalengmawia's fortunes took a significant turn in 2017 when KVK Lunglei intervened through the ARYA project. He actively participated in two training sessions on piggery management organized under ARYA. The project provided crucial support by offering technical guidance, healthcare assistance, and management insights for his sow and piglets through the provision of medicines. This extension of support significantly contributed to the expansion and success of his farm. He was awarded **Mizoram Youth Commission Young Achiever's Award** in 2018 and **Leitlangpui Rahbi Winner** in 2020.



#### Progress Overview:

- **Year of starting the enterprise:** 2013
- **Income before intervention (₹):** 1,90,000
- **Year of intervention:** 2017
- **Breed introduced:** Large White Yorkshire & Hampshire
- **Present Farm Capacity:**
- **Breeder sows with gilt:** 13
- **Breeder boar:** 2
- **Piglet:** 180
- **Fattener:** 29
- **Avg. annual income (₹):** 18,20,000

Mr. H. Lalengmawia enterprise stands as a testament to the power of passion and perseverance. With an annual income of ₹ 18,20,000, his success not only supports his family but also inspires others in the community. His story echoes through the lush hills of Cherhlun, illustrating how a simple passion for pig farming can transform a humble beginning into a prosperous livelihood.



### 3.3 Piggery Unit, Lunglei

Mr. JC. Remsangpuia, a graduate from a farming family, initially pursued a teaching career at a private school for two years. However, his income proved inadequate to meet his family's needs. Driven by a newfound interest in agriculture, he specifically honed in on pig farming after thorough research. Recognizing his lack of expertise in pig farming, he sought assistance from the Krishi Vigyan Kendra (KVK). In 2018, he participated in a training program on Pig Farming and Breeding Management conducted under the Attracting and Retaining Youth In Agriculture (ARYA) Project.

Fueled by his enthusiasm for pig rearing, he was selected under the project to initiate his own enterprise. The project provided crucial support, including the construction of a low-cost piggery, sourcing quality piglets, and supplying feeds, medicines, and technical guidance.

#### Enterprise Details:

- **Name of Enterprise:** Pig Farming
- **Annual Turnover:** ₹ . 6,80,000
- **Contact Number:** 9856546029
- ? **Village:** Hnahthial

In 2021, facing capacity constraints at his Rallang tlang farm, Mr. Remsangpuia made a strategic move, relocating his piggery unit to a larger farm in Lengte, Hnahthial, with the capability to accommodate 15 pigs. This expansion marked a significant step forward for his enterprise.



#### Progress Overview:

- **Year of Starting the Enterprise:** 2018
- **Income Before Intervention (₹ )::** ₹ 1,20,000
- **Year of Intervention:** 2018
- **Introduced Breeds:** Large White Yorkshire & Hampshire
- **Present Farm Capacity:**
  - Breeder Sows with Gilt: 8
  - Breeder Boar: 1
  - Piglet: 80

- Fattener: 10
- **Average Annual Income (₹): ₹ 6,80,000**

In conclusion, Mr. JC Remsangpuia's journey from a teaching career to a successful pig farmer is a testament to his resilience and passion for agriculture. Through his participation in the ARYA Project, he not only gained essential skills in pig farming but also received crucial support to establish and expand his enterprise. The strategic move to a larger farm in Lengte, Hnahthial, reflects his commitment to overcoming challenges and optimizing his pig rearing capabilities. The enterprise's impressive growth, from an initial income of ₹ 1,20,000 in 2018 to an annual income of ₹ 6,80,000, showcases the positive impact of targeted interventions and training programs in empowering individuals to thrive in the agricultural sector.



### 3.4 Piggery Unit, Lunglei

Mr. Lalramliana hails from a farming background and initially pursued college education, but circumstances prevented him from completing his studies. Returning to his village, Thingsai, he married and, alongside his wife, embarked on pig farming with just three sows in their backyard in 2018. In 2020, he learned about the ARYA project through a friend and sought guidance at KVK Lunglei for pig breeding. Recognizing his passion for pig breeding and his eagerness to expand his farm, he became a beneficiary under the ARYA project in 2020 and actively participated in a training program on Pig Farming and Breeding in Thingsai. The project played a pivotal role in supporting him, facilitating the renovation of his piggery house, and providing high-quality feeds, medicines, and technical guidance.



#### Enterprise Details:

- **Name of Enterprise:** Pig Farming
- **Annual Turnover:** ₹ . 8,40,000
- **Contact Number:** 8974215491
- **Village:** Thingsai



With the assistance received through the ARYA project, Mr. Lalramliana has successfully increased his pig herd to seven sows and a boar. This support has not only enhanced his farming operations but has also contributed to a significant boost in his income.



**Progress made:**

- **Year of starting the enterprise:** 2018
- **Income before intervention (₹):** 50,000
- **Year of intervention:** 2020
- **Breed introduced:** Large White Yorkshire & Hampshire
- **Present Farm Capacity:**
  - **Breeder sows with gilt:** 9
  - **Breeder boar:** 1
  - **Piglet:** 120
- **Avg. annual income (₹):** 8,40,000

Mr. Lalramliana's journey in pig farming, initially hindered by circumstances, saw a remarkable transformation with the intervention of the ARYA project in 2020. From starting with just three sows in 2018, he now boasts a thriving enterprise with nine breeder sows, a boar, and 120 piglets. This transformative journey is evident in the substantial increase in his annual income from ₹ 50,000 before intervention to an impressive ₹ 8,40,000, showcasing the tangible impact of targeted support in agricultural development.



### 3.5 Poultry Unit, Lunglei

Mr. David K. Zodinpuia, hailing from Thaizawl village, emerged as a promising graduate student with roots in a farming family. His journey into poultry rearing began at a young age when he raised 30-50 chicks for meat in his Pangzawl backyard, a venture aimed at supporting his college education. Post-graduation in 2018, he relocated to Thaizawl and secured a lease on a piece of land for his poultry farm, foreseeing



enhanced marketing opportunities. Recognizing his potential, KVK Lunglei selected him for the poultry enterprise initiative under ARYA in 2018.

Through the project's support, he underwent specialized training in poultry management to acquire essential skills and knowledge. Additionally, the project provided financial assistance for the expansion of his farm, ensuring adequate support for feed management, medicines, and technical guidance.

#### Enterprise Details:

- **Name of Enterprise:** Poultry Unit
- **Annual Turnover:** ₹ . 4,40,000
- **Contact Number:** 9612764829
- **Village:** Thazawl



Notably, his dedication and success in poultry farming were further validated when he actively participated and emerged as the winner in the *Leitlangpui Rahbi 2020-2021 Micro Star-Up Capital Competition*.

#### Progress made:

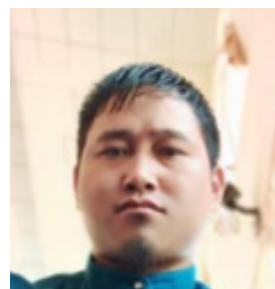
- **Year of Starting the Enterprise:** 2013
- **Income Before Intervention:** ₹ 50,000
- **Year of Intervention:** 2018
- **Breed Introduced:** Broiler for meat
- **Present Farm Capacity:** 200 x 3 cycles
- **Average Annual Income:** ₹ 4,40,000

Mr. David K. Zodinpuia's impressive evolution from a budding poultry enthusiast to a thriving entrepreneur, achieving an average annual income of ₹ 4,40,000, highlights the remarkable impact of the ARYA project and his steadfast dedication to poultry farming. This success story underscores the tangible benefits of targeted support for young entrepreneurs in agriculture.



### 3.6 Poultry Unit, Lunglei

Mr. Lallawmawma, raised in a farming family and educated up to the eighth standard, developed an early connection with livestock. Facing unemployment alongside his wife, they decided to venture into livestock rearing. Starting with a modest batch of Rainbow roosters and acquiring a sow from the market, they embarked on a journey into poultry farming.



#### Enterprise Details:

- **Name of Enterprise:** Poultry Farming
- **Annual Turnover:** ₹ 1,50,000
- **Contact Number:** 9366557635
- **Village:** Tuipui 'D'

In 2020, Mr. Lallawmawma received training in scientific poultry farming through the ARYA project. Subsequently, they became part of the ARYA entrepreneurial unit, which facilitated the establishment of a poultry unit. The project provided essential support, including construction materials for a cost-effective poultry house in their backyard, poultry feeders, medicines, and vaccination.



#### Progress made:

- **Year of Starting the Enterprise:** 2018
- **Income Before Intervention:** ₹ 38,000
- **Year of Intervention:** 2020
- **Breed Introduced:** Rainbow Rooster
- **Present Farm Capacity:** 100
- **Average Annual Income:** ₹ 1,50,000

Currently, their primary source of income revolves around poultry farming, catering to both meat and egg production. The support from the ARYA project has significantly contributed to their success in this venture.





### 3.7 Poultry Unit, Lunglei

Mr. Zoremthanga, a postgraduate teacher at a private school in Lunglei, hails from a family with a history of entrepreneurship. In 2020, he was chosen by the ARYA entrepreneurial unit to initiate a poultry venture. The project provided him with construction materials for a low-cost poultry house in his backyard and supplied Rainbow rooster chicks. Initially focusing on egg production from Rainbow roosters, he soon faced financial challenges due to high feed costs.



#### Enterprise Details:

- **Name of Enterprise:** Poultry Farming
- **Annual Turnover:** ₹. 2,80,000
- **Contact Number:** 8014668126
- **Village:** RahsiVeng

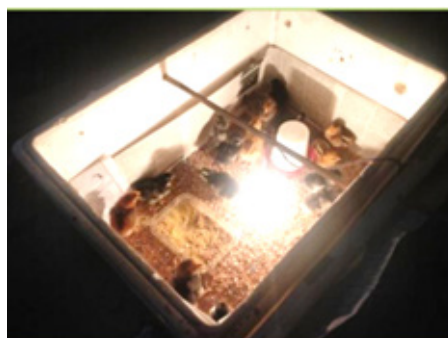
Undeterred, Mr. Zoremthanga turned to the internet for inspiration and devised an innovative solution – a poultry hatchery. Using an old BOD incubator and a cardboard box, he successfully modified the temperature and humidity to create an effective hatchery environment. The initial hurdle of maintaining optimum conditions posed a significant challenge, but through perseverance, he overcame it.



#### Progress Update:

- **Year of Enterprise Establishment:** 2020
- **Initial Income Before Intervention:** ₹ 80,000
- **Year of Intervention:** 2020
- **Introduced Breed:** Rainbow Rooster
- **Present Farm Capacity:** 100
- **Average Annual Income:** ₹ 2,80,000

As a result of his efforts, the hatching percentage for both Rainbow roosters and Japanese quail has significantly improved, reaching a commendable 70-80 percent,



providing a boost to his income in the market. The average annual income has seen a substantial increase, reaching ₹ 2,80,000. His innovative approach, coupled with his commitment to optimizing hatchery techniques, has not only transformed the economic landscape of his poultry business but also stands as a testament to the success achievable through strategic interventions and dedication in the agricultural sector.

### 3.8 Mushroom Enterprise, Lunglei

Mushroom cultivation has recently gained popularity in Mizoram due to its cost-effectiveness. Mrs. Lalnuntluangi, a resident of Ramthar Veng, Lunglei, exemplifies remarkable success in this field. Initially a housewife, she ventured into mushroom cultivation in 2017 with just 20 blocks in her home to contribute to her family's income. As her passion for mushroom cultivation grew, she became a well-known figure in the district, actively promoting awareness about this agricultural practice.



#### Enterprise Details:

- **Name of Enterprise:** Mushroom cultivation
- **Annual Turnover:** ₹ . 1,80,000
- **Contact Number:** 8575176887
- **Village:** Ramthar, Lunglei

In 2018, the Krishi Vigyan Kendra (KVK) in Lunglei intervened through the ARYA project. Mrs. Lalnuntluangi participated in training sessions on Oyster mushroom cultivation organized under the ARYA project. With support from the project, she was able to construct a low-cost mushroom house in her backyard. Additionally, the KVK assisted her by providing high-quality mushroom spawn. Her involvement in an Exposure Visit to Pachhunga University College in Aizawl, organized by the ARYA project, proved instrumental in enhancing her knowledge and skills related to mushroom cultivation.



#### Progress made:

- **Year of Starting the Enterprise:** 2017

- **Income Before Intervention:** ₹ 35,000
- **Year of Intervention:** 2018
- **Breed Introduced:** Oyster Mushroom
- **Present Farm Capacity:** 150 blocks
- **Average Annual Income:** ₹ 1,80,000

With her average annual income reaching ₹ 1,80,000, a substantial increase from the initial ₹ 35,000, her success in mushroom cultivation not only highlights the prosperity of her individual enterprise but also emphasizes the positive influence of initiatives like the ARYA project. Her influence has motivated numerous youths to embrace mushroom cultivation as a viable agricultural option in the region.



### 3.9 Mushroom Enterprise, Lunglei

Mrs. Zochansangi, a resident of Rahsi Veng, Lunglei, has emerged as a highly successful mushroom farmer in the region. Initially a housewife, she developed a keen interest in food processing, specifically mushroom cultivation. Her journey began in February 2017, cultivating mushrooms on a small scale with 30 blocks in one room at her home. In August 2017, she participated in a training program on mushroom cultivation organized by KVK Lunglei under the ARYA project.



#### Enterprise Details:

- **Name of Enterprise:** Mushroom cultivation
- **Annual Turnover:** ₹ . 1,60,000
- **Contact Number:** 9862532489
- **Village:** Rahsi veng

Empowered by the knowledge gained from the training and the support received from the project,

Mrs. Zochansangi embraced advanced technologies in mushroom cultivation. This



intervention played a pivotal role in expanding her operations, allowing her to increase her cultivation capacity to around 200 blocks of mushrooms per cycle. Operating under the brand name '02 Mushroom,' she has become a prominent figure in the local mushroom farming community.

#### Progress Made:

- **Year of Starting the Enterprise:** 2017
- **Income Before Intervention (₹):** ₹ 55,000
- **Year of Intervention:** 2018
- **Variety Introduced:** Oyster Mushroom
- **Present Farm Capacity:** 300 blocks
- **Average Annual Income (₹):** ₹ 1,60,000

Through diligent efforts and the strategic adoption of modern cultivation techniques, she has witnessed remarkable progress in her mushroom cultivation enterprise. Starting with a modest setup, she now operates a thriving unit with a significantly increased annual turnover of ₹ 1,60,000. This success stands as a testament to the transformative impact of the ARYA project, empowering individuals like her to not only enhance their skills but also substantially improve their economic well-being through sustainable agricultural practices.



### 3.10 Mushroom Enterprise, Lunglei

Mrs. F.N Rohlupuii w/o Mr. Hmangaihdaungliana is a young and enthusiastic lady practicing farming to sustain their daily livelihood. She is one of the members of Self Help Group (SHG) under Mizoram State Rural Livelihood Mission (MzSRLM). As Mrs. F.N. Rohlupuii is also a housewife taking care of her family with every possible means, she wanted to experiment with something with potential for yield higher returns with minimum investment. She has an interest in mushroom cultivation and together with some of her friends from her village she started cultivating mushroom on a small scale with 10 blocks in one room at her home in 2019. However, there was not much production as she has no proper training and technical knowledge on mushroom cultivation.





### Enterprise Details:

- **Name of Enterprise:** Mushroom cultivation
- **Annual Turnover:** ₹ . 80,000
- **Contact Number:** 9362623811
- **Village:** South Vanlaiphai

In 2020 she attended training on mushroom cultivation organized by KVK Lunglei under ARYA project for MzSRLM SHG. She was introduced to different aspects of mushroom production through the program conducted on 'Oyster Mushroom Production'. She then adopted the technologies of mushroom cultivation after the training.



The intervention of KVK Lunglei through ARYA project helped her to attain a larger mushroom cultivation unit. Other assistance in kind such as polybag, hand compression sprayer, plastic container for storing of harvest and other assistance were also given to her. With the knowledge and help received from the project, she can now cultivated around 100 blocks of mushroom per cycle. The skills acquired during the training program also helped her understand the importance of hygiene and cleanliness in choosing the paddy straw, cultivation room, materials and mushroom spawn.

### Progress made:

- **Year of Starting the Enterprise:** 2019
- **Income Before Intervention:** ₹ 2,000
- **Year of Intervention:** 2020
- **Breed Introduced:** Oyster Mushroom
- **Present Farm Capacity:** 100 blocks
- **Average Annual Income:** ₹ 60,000

By observing the income and passion of Mrs. F.N Rohlupuii, other youths from their village are also interested in taking up farming like her. She has emerged as a role model for local women in production and marketing of mushroom and is considered as an example by rural youths.



She shared her knowledge with other women farmers from her village and is also contributing by participating in various activities of KVK till date.

### 3.11 Beekeeping, Lunglei

Mr. Lalramnghinghlova, born into a farming family, initially embraced beekeeping as a personal hobby. Commencing with just four bee boxes in 2016, he managed to harvest approximately 10 kgs of honey from these boxes. The turning point occurred in early 2018 when KVK Lunglei intervened in his farm under the ARYA project. Engaging in specialized training that emphasized the benefits of scientific beekeeping, he received crucial support from KVK in the branding and packaging of his honey.



#### Enterprise Details:

- **Name of Enterprise:** Beekeeping
- **Annual Turnover:** ₹ . 2,20,000
- **Contact Number:** 7005430399
- **Village:** Theiriat

What commenced as a simple hobby with a modest setup of four bee boxes burgeoned into a thriving business. Presently, the annual honey yield from his farm has surged to an impressive 260 kgs. The honey, marketed under the brand name 'Theiriat Khawizu' by Fanai Bee Farm, finds its way to consumers through sales at the farm gate and in the local market. Beyond beekeeping, Mr. Lalramnghinghlova expanded his venture by crafting and selling bee boxes, priced at Rs 2500 per box.



#### Progress Overview:

- **Year of Starting the Enterprise:** 2016
- **Income Before Intervention (₹ ):** ₹ 45,000
- **Year of Intervention:** 2018
- **Bee Species:** Apis mellifera

- **Present Farm Capacity:** 100 bee boxes
- **Production Capacity:** 250-280 kg
- **Average Annual Income (₹):** ₹ 2,20,000

The intervention by KVK Lunglei through the ARYA project has been instrumental in elevating Mr. Lalramnghinglova's beekeeping enterprise from a personal interest to a sustainable and profitable business. The increase in production capacity, income, and the establishment of a recognized brand highlight the success of the intervention. Fanai Bee Farm stands as a testament to the positive impact of strategic support and training in agribusiness development.



### 3.12 Beekeeping, Lunglei

Mr. C. Lalchungnunga, residing in South Vanlaiphai, Mizoram, has emerged as a dedicated and successful beekeeper, actively contributing to the growth of beekeeping in his community. Starting his venture in 2007 with just a single bee box, he faced initial challenges but persevered with hard work and support from KVK Lunglei. With the intervention of the KVK Lunglei ARYA project in 2019, his enterprise expanded significantly to 27 bee boxes.



#### Enterprise Details:

- **Name of Enterprise:** Beekeeping
- **Annual Turnover:** ₹ 1,20,000
- **Contact Number:** 7085493903
- **Village:** South Vanlaiphai

His commitment and leadership have not only resulted in personal success, with an annual turnover of ₹ 1,20,000 but have also inspired and engaged seven youths in beekeeping within the village. Under the brand name "Pure Honey," produced by the South Vanlaiphai Beekeepers Association, he has successfully marketed the honey locally and beyond.

In addition to beekeeping, he manages a citrus orchard and a farm pond, showcasing his diverse agricultural interests. The introduction of *Apis mellifera* bee

species has proven to be fruitful, with a present farm capacity of 27 bee boxes and a production capacity of 95 kg.

#### Progress Summary:

- **Year of Starting the Enterprise:** 2018
- **Income Before Intervention (₹):** ₹ 15,000
- **Year of Intervention:** 2019
- **Bee Species:** Apis mellifera
- **Present Farm Capacity:** 27 bee boxes
- **Production Capacity:** 95 kg
- **Average Annual Income (₹):** ₹ 1,20,000

The impact of the intervention is evident in the substantial increase in income, from ₹ 15,000 before intervention to the current annual turnover of ₹ 1,20,000. His efforts have not only improved his livelihood but have also contributed to the economic development of the entire community. In conclusion, his journey in beekeeping stands as a testament to the positive outcomes achievable through dedication, perseverance, and strategic interventions. His success has not only transformed his own economic landscape but has also created a ripple effect, inspiring more youths to engage in beekeeping and contributing to the overall prosperity of South Vanlaiphai village.



### 3.13 Beekeeping, Lunglei

Mr. Lalrinnggheta, a resident of Khawhri village in Mizoram, has emerged as a successful beekeeper with a passion for beekeeping and a determination to overcome initial challenges. Beginning with limited resources and knowledge, he started his beekeeping venture with a self-made bee box. However, his journey took a positive turn when he became a beneficiary of the ARYA project in 2016, facilitated by the KVK Lunglei.





### Enterprise Details:

- **Name of Enterprise:** Beekeeping
- **Annual Turnover:** ₹ . 85,000
- **Contact Number:** 7085151156
- **Village:** Khawhri

Under the guidance of the project, Lalrinnggheta received essential training and modern beekeeping equipment, including scientifically designed bee boxes. This intervention proved pivotal in enhancing the efficiency of his beekeeping practices, leading to an increase in both the number of bee boxes and honey yield. His success became a catalyst for the formation of a beekeepers' association in the village, comprising 15 active members under the ARYA initiative.



The beekeepers' association, with support from the project, was equipped with necessary beekeeping tools such as bee veils, smokers, swarming nets, bee brushes, comb foundation sheets, queen gates, and glass jars for packaging and marketing purposes. This collaborative effort not only benefited him but also inspired other farmers in the village to engage in beekeeping, contributing to the overall prosperity of the community.

### Progress Made:

- **Year of Starting the Enterprise:** 2010
- **Income Before Intervention:** ₹ 10,000
- **Year of Intervention:** 2016
- **Bee Species:** Apis mellifera
- **Present Farm Capacity:** 25 bee boxes
- **Production Capacity:** 55 kg
- **Average Annual Income:** ₹ 85,000

Reflecting on the progress made, he started his enterprise in 2010 with an initial income of ₹ 10,000. The intervention in 2016 marked a turning point, leading to the adoption of Apis mellifera bee species and an expansion in farm capacity to 25 bee

boxes. Currently, his production capacity stands at 55 kg, with an impressive annual income of ₹ 85,000.

In conclusion, his journey from a novice beekeeper to a successful entrepreneur highlights the positive impact of interventions like the ARYA project. The collaborative efforts have not only transformed individual livelihoods but have also fostered a sense of community and shared prosperity through sustainable beekeeping practices in Khawhri village, Mizoram.



### 3.14 Beekeeping, Lunglei

Mr. Lalkhumtira, a resident of Thingsai Village, Mizoram, has made remarkable strides in beekeeping since initiating his enterprise with five bee boxes in 2015. Benefiting from the rich floral resources near the Indo-Myanmar border in his region, he has overcome challenges such as honey bee swarming to currently manage an impressive 75 bee boxes.



The ARYA project, facilitated by the KVK Lunglei, played a pivotal role in Mr. Lalkhumtira's journey. Through this intervention, he received training and essential beekeeping equipment, enabling him to adopt scientific methods and modern bee boxes for increased honey production. His dedication is evident in the success of 'Enok Bee Farm,' named after his son, and the sale of honey under the brand "Enok Honey."

#### Enterprise Details:

- **Name of Enterprise:** Beekeeping
- **Annual Turnover:** ₹ . 1,70,000
- **Contact Number:** 8974196834
- **Village:** Thingsai

Beyond beekeeping, he also engages in vegetable cultivation in his agricultural fields. By strategically placing bee boxes throughout the village, he has not only increased his yields but has also inspired other youths to consider beekeeping as a viable source of income.



### Progress made:

- **Year of starting the enterprise:** 2015
- **Income before intervention:** ₹ 40,000
- **Year of intervention:** 2020
- **Bee Species:** Apis mellifera
- **Present farm capacity:** 75 bee boxes
- **Production capacity:** 125 kg
- **Avg. annual income:** ₹ 1,70,000

With an initial income of ₹ 40,000 in 2015, the intervention in 2020 resulted in a significant boost. Mr. Lalkhumtira now manages 75 bee boxes, producing an impressive 125 kg of honey annually, with an average income of ₹ 1,70,000. His journey exemplifies the positive impact of interventions like the ARYA project, showcasing how empowerment through training and modern techniques can transform traditional practices into thriving enterprises. His success not only contributes to his personal growth but also serves as an inspiration for the community, fostering interest and enthusiasm among the youth for sustainable and lucrative ventures like beekeeping.



### 3.15 Vermicomposting, Lunglei

Mr. Malsawmtluanga, a diligent farmer from Hnahthial, Mizoram, has transformed his agricultural practices to enhance his income. Cultivating vegetables and rearing cattle provided him with an abundant source of farm waste and dung, inspiring him to venture into vermicompost production. Under the guidance of the ARYA project and a skill development training program in 2020 at KVK Lunglei, he acquired essential knowledge about the proper vermicomposting method.



Empowered by his newfound expertise and backed by the ARYA project, he has established MALSAWM FARM, significantly expanding his vermicomposting production from two to ten pits. Inclusively involving his entire family in the preparation and harvesting processes, he has successfully marketed the vermicompost at ₹ 40 per kg.

This venture has yielded a substantial annual return of ₹ 4,90,000, accompanied by an impressive production of 122.5 quintals. Noteworthy is his active contribution to the local agricultural community, as he provides organic nutrient inputs to vegetable growers and the florist association in and around Hnahthial town.

#### Enterprise Details:

- **Name of Enterprise:** Vermicomposting
- **Annual Turnover:** ₹ . 4,90,000
- **Contact Number:** 8378044149
- **Village:** Hnahthial

His remarkable journey has not gone unnoticed. He has received accolades such as the **Entrepreneur Start-up Award** under R-ABI, Mizoram, and the **Waste Entrepreneur Award** under the District Swachhta Programme, recognizing his dedication to sustainable agricultural practices.



#### Progress Made:

- **Year of Starting the Enterprise:** 2018
- **Income Before Intervention (₹):** ₹ 44,000
- **Year of Intervention:** 2019
- **Earthworm Species:** Eisenia feotida
- **Vermicompost Yield:** 122 quintals
- **Vermiwash Yield:** 50 litres
- **Present Vermicompost Beds:** 10
- **Average Annual Income (₹):** ₹ 4,90,000

The narrative of his achievements in vermicomposting serves as a prime example of how skill development and agricultural intervention programs can bring about transformative changes. Through his unwavering dedication and the backing of initiatives like ARYA, Malsawmtluanga not only experienced a significant boost in income but also emerged as a driving force for sustainable agricultural practices within





the community. This success highlights the potential for positive transformations when farmers are provided with the knowledge and resources to adopt innovative and environmentally friendly farming methods.

### 3.16 Vermicomposting, Lunglei

Mr. David K. Zodinpuia, a dedicated and proactive youth farmer from Thaizawl Village, Mizoram, embarked on the journey of vermicomposting, establishing his enterprise named ZO-COMPOST. Armed with a BA qualification, he received invaluable training in vermicompost production from the esteemed KVK Lunglei in 2019, utilizing the knowledge to convert poultry droppings into high-quality vermicompost.



Innovatively, he implemented a technique involving the treatment of poultry droppings with Calcium sulfate ( $\text{CaSO}_4$ ) at 4%, effectively neutralizing the pH and enhancing the suitability for vermicomposting. Leveraging the support of the ARYA project, he received essential resources such as vermicompost beds, composting agents, packing materials, and assistance in constructing a vermicompost shed.

#### Enterprise Details:

- **Name of Enterprise:** Vermicomposting
- **Annual Turnover:** ₹ 1,50,000
- **Contact Number:** 9612764829
- **Village:** Thaizawl

With an annual turnover of ₹ 1,50,000, Mr. Zodinpuia's enterprise has flourished, harvesting an impressive 50 quintals of vermicompost each year. The addition of vermish to his product line has further boosted his income. This success story is not only reflected in his financial gains but also in his recognition as the winner of the *Leitlangpui Rahbi* 2020-2021 Micro star-up capital competition.



#### Progress Made:

- **Year of Starting the Enterprise:** 2020
- **Income Before Intervention (₹):** ₹ 24,000

- **Year of Intervention:** 2019
- **Earthworm Species:** *Eisenia foetida*
- **Vermicompost Yield:** 50 quintals
- **Present Vermicompost Beds:** 5
- **Average Annual Income (₹):** ₹ 1,50,000

Since initiating his venture in 2020, he has witnessed remarkable progress. His income has skyrocketed from ₹ 24,000 before intervention in 2019 to an average annual income of ₹ 1,50,000. Utilizing the *Eisenia foetida* species of earthworms, he currently manages five vermicompost beds, showcasing the sustainability and scalability of his enterprise.



In conclusion, his journey stands as a testament to the transformative power of agricultural interventions and entrepreneurial spirit. His dedication to sustainable farming practices and innovative approaches has not only improved his livelihood but also contributed to the growing demand for vermicompost in the region. The success of ZO-COMPOST serves as an inspiration for other aspiring farmers, emphasizing the potential of agri-entrepreneurship in creating positive economic and environmental impacts.

### 3.17 Protected Cultivation, Lunglei

Mr. K. Vanlalrengpuia, a vegetable grower from South Vanlaiphai village, initiated vegetable cultivation in 2016 under open conditions to meet his family's needs. However, faced with low production and an inability to sustain year-round cultivation due to a lack of knowledge in proper cultivation practices, pest and disease management, and the absence of protected cultivation methods, his yields were suboptimal.



#### Enterprise Details:

- **Name of Enterprise:** Protected Cultivation
- **Annual Turnover:** ₹ .75,000
- **Contact Number:** 9615513193

- **Village:** South Vanlaiphai

In 2020, Mr. K. Vanlalrengpuia participated in a training program conducted by KVK through the ARYA project on protected cultivation. The training covered crucial aspects such as nursery management of vegetables, pest and disease management, and the scientific cultivation of resistant varieties of tomatoes. Armed with this knowledge, he implemented the acquired technologies, receiving technical support, planting materials, seeds, a polyhouse, and other assistance through the ARYA project.



**Progress Made:**

- **Year of Starting the Enterprise:** 2016
- **Income Before Intervention (₹):** ₹ 20,000
- **Year of Intervention:** 2020
- **Variety Introduced:** Arka Abhed
- **Average Production:**
  - 12,000 seedlings
  - 10 quintals of tomatoes
- **Average Annual Income (₹):** ₹ 75,000

Mr. K. Vanlalrengpuia's journey showcases the transformative impact of targeted interventions and knowledge dissemination. Through the ARYA project, he not only gained insights into advanced cultivation techniques but also received crucial support in terms of resources. This resulted in a significant improvement in his annual income, demonstrating the effectiveness of providing farmers with the right tools and knowledge. The success of Mr. K. Vanlalrengpuia serves as an encouraging example of how investments in agricultural training and technology can uplift the livelihoods of individual farmers and contribute to the overall growth of the agricultural sector.



### 3.18 Protected Cultivation, Lunglei

Mr. R. Vanlalhriata, a graduate unemployed youth residing in Tuipui D village of Lunglei District, has been actively involved in tomato cultivation in open conditions. Unfortunately, he faced challenges such as fruit rotting before harvest and inadequate water supply, resulting in small-sized fruits and low yields. The absence of proper nursery management in open conditions led to issues like damping off disease, further affecting the quality of seedlings before transplantation. Despite his yearly efforts, the lack of knowledge regarding optimal tomato cultivation practices contributed to consistently low yields.



#### Enterprise Details:

- **Name of Enterprise:** Protected Cultivation
- **Annual Turnover:** ₹ .95,000
- **Contact Number:** 9366685384
- **Village:** Tuipui D

In an effort to address these challenges, he participated in a training and method demonstration session on protected cultivation of tomatoes organized by KVK through the ARYA project. This initiative introduced advanced technologies, including nursery management, Integrated Pest Management (IPM), Integrated Disease Management (IDM), and nutrient management. With the support and provision of inputs by the ARYA project, he implemented these techniques in his field, transforming his cultivation approach.



#### Progress Summary:

- **Year of Starting the Enterprise:** 2016
- **Income Before Intervention (₹):** ₹ 50,000
- **Year of Intervention:** 2020
- **Variety Introduced:** Arka Abhed
- **Average Production:**
  - 11,000 seedlings
  - 12 quintals of tomatoes
- **Average Annual Income (₹):** ₹ 95,000





Since the intervention in 2020, he has exhibited remarkable progress in his protected cultivation enterprise. The adoption of advanced technologies and practices, learned through the ARYA project, has significantly improved the quality and yield of his tomato crops. This success not only reflects in the increased annual income from ₹ 50,000 to ₹ 95,000 but also positions him as a successful entrepreneur among the youth engaged in protected cultivation under the ARYA project.



### 3.19 Floriculture, Senapati

Miss Florence, a 28-year-old beneficiary of the ARYA project, has achieved remarkable success as a floriculturist in Karong village. Before venturing into floriculture under the ARYA project, she held a three-year BA degree and previously earned income through a private company in India. The COVID-19 outbreak led her to return home, where she remained unemployed for eight months until she connected with KVK staff in 2020. Convinced to join the floriculture enterprise, Miss Florence received skill-based training, along with critical inputs such as a greenhouse, seeds, fertilizers, agrochemicals, and coco pits.



In the first year of her enterprise, she generated a substantial income of 1.64 lakhs from flower sales. Recently, she took the initiative to establish a flower outlet named **“High Land Flora”** in Karong Bazar. The ARYA program has facilitated the formation of a group consisting of 21 individuals, each running a floriculture unit.

KVK has been instrumental in providing technical support, guidance, and assistance in marketing inputs and products. Before the ARYA project, Miss Florence earned an annual income of Rs. 2.4 lakhs from her job in a private company. Through her floriculture venture, she has not only created employment opportunities by hiring two permanent staff



for flower production and another for the sales outlet but has also played a pivotal role in raising awareness in her community about the economic benefits of floriculture. Miss Florence has been recognized as a resource person by various organizations, highlighting her contributions.

### Significant achievement/success of the entrepreneur due to ARYA Project:

Name of the enterprises	Cost of production/unit	Gross income/unit (Rs)	Net income/unit (Rs)	B:C Ratio
Floriculture	38000	218000	180000	5.7:1

*\*Calculated based on the average of three year pooled data.*

In conclusion, Miss Florence emphasizes that floriculture is a lucrative vocation, especially for landless farmers, and the demand for flowers continues to grow.

### 3.20 Poultry Farming, Wokha

Ms. Mhalo Yanthan of Makharong Village under Bhandari block of Wokha district, Nagaland has graduated in the year 2020, since then she has been unemployed and had been rearing 40-50 no. of poultry under backyard farming for its sustenance by herself. She develop the interest in rearing poultry in large scale but due to lack of fund, awareness, technical knowledge about scientific livestock rearing and non-availability of quality breed at nearby areas were the major stumbling block for her success.

After graduating in the year 2020, she has attended skill training on scientific poultry farming and 1 no. of skill training on scientific pig breeding farm organized by KVK, Wokha. She is a role model to the other rural women in the district. She is actively involved as a key communicator/ leader on SHGs under the block.

Support and guidance provided by KVK includes training in the scientific methods



of poultry rearing, assistance in selecting construction materials for a 30 x 15 ft<sup>2</sup> poultry shed, procurement of 250 high-quality Vanaraja/Srinidhi chicks, provision of 100 kg of poultry feeds, and supply of vaccines, vitamins, deworming agents, mineral mixtures, and other necessary items. The technological backup received encompasses a comprehensive range of resources to enhance poultry farming practices.

#### Progress Made:

- **Income prior to the ARYA project and sources:** Rs. (2,000-4,000)/ month
- **Net income:** Rs. 87,500
- **B:C Ratio:** 1.46
- **Annual turnover:** Rs. 1,75,000
- **Manpower generated:** 2 nos. of rural women is actively involve on her farm at rotation basis. They are paid on lump sum.
- **Assets created:** Store house, low cost brooding equipment and refrigerator for storing vaccine

The scientific knowledge learned from KVK, Wokha, experience gain from her own farm has empowered her to extend the poultry unit for maintain a stock of 500 birds at all time. The success of Ms. Mhalo Yanthan had motivated fellow rural unemployed youth in the village and neighboring villages in the region.

### 3.21 Mushroom Farming, Wokha

Mr. Renben Murry of Wokha Village is an unemployed youth, who is actively involved in the mushroom farming on a small scale basis under low cost housing. He developed interest in mushroom farming way back in the year 2021 after watching a facebook post of some entrepreneur practicing mushroom farming at Dimapur.



In the year 2021, he approached KVK, Wokha for technical knowledge on mushroom farming. He attended skill training on scientific mushroom farming and also attended a training program organized by the scientist of ICAR Research Complex for NEH Region, Nagaland Centre.

The support and guidance provided by the Krishi Vigyan Kendra (KVK) encompassed various aspects of scientific mushroom farming. This included valuable trainingsessionsontheprinciplesandtechniquesofmushroomcultivation.Additionally,

KVK extended assistance in acquiring construction materials for a mushroom shed measuring 20 x 12 feet, ensuring a conducive environment for cultivation. Furthermore, the provision of essential resources such as 200 units of Oyster mushroom spawn, poly bags, sprayers, and other necessary equipment demonstrated the technological backup received from KVK, facilitating a comprehensive and well-equipped approach to successful mushroom farming.

#### Progress Made:

- **Income prior to ARYA:** Rs. (2,000-3,000)/ month
- **Net income:** Rs. 50,000
- **BC Ratio:** 1.43
- **Annual turnover:** Rs. 1,00,000
- **Manpower generated:** 1 nos. of rural women is actively involve on his farm and paid on lump sum.
- **Assets created:** Store house

Looking into the success of mushroom cultivation of Mr. Renben Murry, some few farmers of the village started cultivating mushroom on small scale. Several rural youth has also come forward to learn the process of mushroom cultivation.



### 3.22 Pig Farming, Dhalai

Subrata Das, a 22-year-old physically handicapped (PH) unemployed youth from a scheduled caste community was running a pig farm on a small scale which is located at Kuchainala village under Durga-Chowmohani Block of Dhalai District, Tripura. He has always been interested in farming, but without the proper scientific knowledge. Through his association with the ARYA program at KVK Dhalai, Subrata became part of an ongoing initiative where rural youths engage in various enterprises. Following his participation in the training sessions under the project, he gained valuable insights into the scientific methods of managing his pig farm.





Prior to his involvement in ARYA project he was running a pig farm with 2 nos of piglets. He was very much interested to know the management of pigs in a scientific way. Krishi Vigyan Kendra, Dhalai has imparted the training of the farmer on scientific piggery farming and their different management practices under the ARYA Project (2021-22) and supported piglets as well as the construction of piggery houses. The regular field visit was done for providing treatment and other scientific advice (Like low-cost feeding with kitchen waste and with other locally available resources). Before involvement in ARYA project he used to rear only two pigs thus the income was approximately Rs. 25000 yearly.



After intervention of ARYA project, the youths increase his enterprise as he gets confidence to manage the farm with support of KVK Dhalai. The total cost of production is Rs. 144,900 and gross income during one year is 368400 and net income for one year 223500. The B: C ratio was 2.54 for his enterprise. For the production of piggery enterprises he used to hire 1 (one) manpower on regular basis. By seeing the success of the youth many of the other youths also started the same in that village as they get motivation by seeing the income opportunity of him.

Many of the rural youth from nearby villages also visited the farm and to know the success stories of the youth. He suggested the other youth of the village to start the farming activities with the involvement KVK Dhalai to take the training and advisories through the ARYA whatsapp group.

### 3.23 Mushroom Cultivation, Dhalai

Mr. Nripen Sinha is an unemployed mushroom grower of Avanga, Kamalpur, Dhalai Tripua. He has been growing oyster mushroom in a small house with a capacity of 50 bags after received training from various local NGOs. He is very hard work farmer and devoted his daily time for the last four years, but could not multiply to make sustainable profit from this enterprise. Therefore, he communicated with the KVK Dhalai regarding sustainable management of mushroom and make maximum profit from limited resources. In this connection, he got training at KVK Dhalai under ARYA project



regarding production of various different types of mushroom which suitable for Tripura climatic condition as an example paddy straw and Oyster mushroom. After received training he has been successfully able to grow the paddy straw mushroom in his small production unit. Recently, he established one paddy straw mushroom production unit with a capacity of 200 bags with the help of financial assistance under ARYA project. Presently, he is running production of two different types of mushroom in year round bases in two different units and only year round paddy straw and Oyster mushroom grower in the district.

Association with KVK Dhalai in various activities such as training as master trainer, exposure visit to various interested farmers in his production unit and several demonstrations conducted for dissemination of technology. Basic financial support for construction of new paddy straw mushroom production unit with capacity of 200 bags, provided on hand training on culturing of different types of mushroom, supplied different types of Oyster mushroom spawn suitable for year round cultivation, other technical guidance as management of infestation of various pest and diseases when necessary and regular monitoring of the unit, marketing activities etc are given by KVK Dhalai.

Before involvement in ARYA project he was unemployed and grows only Oyster mushroom in seasonal basis on winter. He grows on small house with a capacity of 50 bags. From this he earned minimum income on seasonal basis. On seasonally he earned Rs. 8000/- per month.



After intervention of the ARYA project, the farmers total annual cost of cultivation for the mushroom unit was Rs. 33,000/- whereas the gross return from the enterprises was Rs. 120,000/- and the net income he earned was Rs. 90,000/-. The B:C ratio was 3.63 for his mushroom enterprise. For the production of Vermicomposting he used to hire 1 (one) manpower as and when required. As a success of his enterprise in the locality, many other rural youths of the district also got motivated through exposure visit and now most of them were interested to take basic Oyster production training at KVK Dhalai and interested to make enterprise for their livelihood business.

After successful intervention of the ARYA project most of the local seasonal mushroom growers are aware of year round cultivation of mushroom. Now they understand the potential cultivation of different types of mushroom with limited resources suitable for Tripura climatic condition. With the successful demonstration

unit most of the unemployed rural youth were attracted on mushroom cultivation. So far, in the annual year 2022-23 around 400 rural youth registered to participate on mushroom cultivation training at KVK Dhalai.

### 3.24 Goat Farming, Dhalai

Mr. Sajal Debbarma, a graduate residing in Santirbazar, Kamalpur, Dhalai Tripura, relies on goat farming as a vital source of supplementary income, particularly crucial for small, marginal, and landless rural farmers. Goats prove economically beneficial due to their ability to thrive in diverse and challenging climatic conditions with minimal input costs. However, the underperformance of local non-descript goats has limited the income potential for farmers like Mr. Debbarma. Recognizing the need for improvement, he is exploring the advantages of the renowned Black Bengals breed, known for its high prolificacy, superior meat quality, exceptional skin, early sexual maturity, short kidding periods, and remarkable adaptability, to enhance both productivity and income in his goat farming venture.

The ARYA program is an on-going initiative at KVK Dhalai, involving the active participation of rural youths in various enterprises. Through the engagement in this program, Mr. Sajal Debbarma gained valuable knowledge about the scientific methods of managing goat farms, contributing to enhanced productivity and income. Support was provided to purchase goat kids (Black Bengal), renovation of goat houses to 10 selected farmers of Dhalai District under ARYA project of KVK in the year 2021-22. Those beneficiaries got training through which they acquired knowledge about manage mental aspects of goat farming conducted by KVK and were also supported for deworming, vaccination and treatment from time to time. Goats were reared totally on grasses, shrubs and various trees leaves available in locality without any other supplement feed. Goat houses were constructed with locally available materials.



Before involvement in ARYA project he could manage only 4 goats as he was not having any knowledge about the management of goats. The annual income generated from goat rearing was Rs. 11500. After intervention of ARYA project, the youths increase the number of goats as he gets confidence to manage the farm with support of KVK Dhalai. The total cost of production is Rs. 17000.00 and gross income during one year is 62000.00 and net income for one year 45000.00 The B: C ratio was 3.64 for his enterprise. For the production of goatery enterprises he used to hire 1 (one) manpower on time to time. Other farmers were motivated by the success of Sajal Debbarma. By seeing the success of the youth many of the other youths also started the same in that village as they get motivation by seeing the income opportunity in this enterprise.

Rural youth from nearby villages also visited the farm and to know the success stories of the youth. He suggested to the other youth of the village to start the farming activities as it involves very less amount of capital. He also suggested to get the training which helps him to manage the diseases in goats and other manage mental practices which he learned helped him greatly to increase the income.

### 3.25 Mushroom Cultivation, Tuensang

Ms. Akhumla, a diligent farmer hailing from Kuthur village, is characterized by her strong work ethic. Despite being a school dropout, she embarked on a journey into farming as a means of securing her livelihood

In pursuit of technical knowledge to enhance her farming practices, she engaged with the ARYA program facilitated by the Krishi Vigyan Kendra (KVK) Tuensang in the year 2022. This initiative exemplifies her commitment to leveraging contemporary agricultural techniques for the advancement of her agricultural pursuits.

In the fiscal year 2021-22, Ms. Akhumla derived her income exclusively from diverse vegetable cultivation, amounting to Rs. 34,500 (Thirty-four thousand and five hundred). Through active participation in the ARYA Project, she underwent practical training in Oyster mushroom cultivation and successfully established a mushroom unit with a capacity of 300 bags, supported by project assistance.

In the financial year 2022-23, she achieved a noteworthy harvest, yielding 570 kg of





mushrooms over three cycles, translating to a net income of Rs. 72,550 (Seventy-two thousand five hundred and fifty).

The cultivation of Oyster mushrooms and the establishment of a unit with modest capital investment are facilitated by scientific knowledge. The ARYA Project played a pivotal role in empowering rural unemployed youth, exemplified by Ms. Akhumla's transformative journey. She stands as a genuine inspiration for her counterparts, providing training and practical demonstrations to fellow youths in the rural community.

### 3.26 Poultry Farming, Jaintia Hills

#### Background of the Farmer:

- **Name:** Lon Dkhar
- **Age:** 33
- **Education:** III Std.
- **Village:** Umladkhur
- **Members involved:** A group of 5 members



Lon Dkhar actively engaged in the ARYA Program organized by the Krishi Vigyan Kendra (KVK), where he actively participated in comprehensive training and practical demonstrations focused on poultry farming. As part of this program, he received significant assistance, including 50% financial support for the construction of a poultry shed. Moreover, he was provided with 500 broiler birds, 15 feeders, 15 drinkers, and 1 brooder, all contributing to the enhancement and expansion of his poultry enterprise.

Prior to enrolling in the ARYA project, he generated an annual income of Rs. 60,000, predominantly through employment as a farm helper and engagement in related agricultural activities. He has made significant strides in his entrepreneurial journey, including a Gross Income of Rs. 3,46,500 and a commendable Net Income of Rs. 2,21,500. The Benefit-Cost Ratio (BC Ratio) stands at an impressive 2.77, reflecting the success and efficiency of his endeavors.



The impact of the project is also evident in the generation of 135 days' worth of manpower and the creation of valuable assets. Lon Dkhar, a participant in the project,

exemplifies this success by establishing a thriving meat shop and expanding his business through innovative contractual farming. Importantly, he has actively engaged other youths from his village and nearby areas in these initiatives.

Furthermore, he has emerged as a beacon of progress in his community, playing a pivotal role in encouraging young individuals to explore opportunities in poultry farming. His efforts extend beyond the farm, as he actively promotes the marketing of birds in local markets, contributing to the economic development of the region. The ARYA Project has not only empowered individuals like Lon Dkhar but has also triggered positive transformations in the wider community, fostering a culture of entrepreneurship and agricultural innovation.

Lon Dkhar and his team, overcoming initial resource constraints, have showcased impressive progress, thanks to the support of the ARYA project. Their narrative extends to securing financial aid from the bank, obtaining Rs. 2,00,000 through the Kisan Credit Card scheme. He is actively championing the cause of budding entrepreneurs in his village, providing not just guidance but also tangible support, particularly in the realm of marketing initiatives. This success narrative stands as a powerful testament to the transformative influence of entrepreneurship and collaborative efforts within the community. His journey highlights the potential for rural youths to prosper in agribusiness when equipped with the right support and a determined spirit.



### 3.27 Poultry Production, Jaintia Hills

#### Background of the Farmer:

- **Name:** Heimonmi Kharsahnoh
- **Age:** 29
- **Education:** 12th passed
- **Village:** Sohphoh
- **Members Involved:** A group of 4 members



Heimonmi Kharsahnoh, a 29-year-old resident of Sohphoh, has actively engaged in poultry production through the ARYA Program facilitated by Krishi Vigyan Kendra (KVK) Jaintia Hills. Specializing in poultry farming, he has benefited from KVK's

multifaceted support, including comprehensive training and practical demonstrations. The program has significantly contributed to the expansion of his enterprise by providing financial assistance, covering 50% of the funds required for the construction of a poultry shed. Moreover, KVK has played a pivotal role in enhancing the scale of Heimonmi's operations by furnishing him with 100 Varanaja birds, accompanied by 5 feeders and drinkers, thereby enabling the effective scaling up of their poultry production activities. This strategic collaboration with KVK has not only enhanced Heimonmi's expertise but has also contributed substantially to the growth and sustainability of his poultry enterprise.



Before the initiation of the ARYA Project, Heimonmi Kharsahnoh derived an annual income of Rs. 1,50,000 from a diverse range of agricultural activities. This included earnings from horticulture and agriculture, alongside income generated through backyard poultry and backyard piggery ventures.

#### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated	Assets created	Role of as a progressive farmer
1,90,000	1,10,000	2.375	34.5	Upscaling farming (poultry, piggery, agriculture, and horticulture)	Trainer in the field of poultry farming

In an era where securing government employment presents considerable challenges, poultry farming emerges as a viable pathway for both income generation and employment opportunities. Heimonmi Kharsahnoh's success story serves as a compelling illustration of the untapped potential within agricultural entrepreneurship. His achievements underscore the pivotal role such initiatives play in fostering economic growth and sustainability. Aspiring entrepreneurs are encouraged to explore the promising landscape of poultry farming, recognizing its capacity not only to provide a source of income but also to contribute meaningfully to individual prosperity and overall community development.

### 3.28 Vermicomposting, Jaintia Hills

Shri. Damaechwa Laloo, a 30-year-old farmer from Moodymmai village, specializes in vermicomposting and integrated farming. Engaging a group of four members, he actively practices sustainable agricultural methods to enhance soil fertility and maximize crop yield. Laloo's dedication to eco-friendly farming reflects a commitment to both environmental stewardship and community collaboration within his agricultural pursuits.



He underwent training and demonstrations in Vermicompost production and received financial assistance covering 50% of the construction cost for the vermicompost unit. Additionally, he was provided with essential resources such as 1 ton of cow dung, 1000 earthworms, a weight balance, and a sealing machine. Before engaging in the ARYA Project, his annual income ranged from Rs. 28,350 to Rs. 36,000, derived from sources such as daily wage labor and farming activities.



#### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated.	Assets created	Role of progressive farmer in community
1,51,500	1,36,350	10	22	Upscaling of Farm	Supply of Earth worms and vermicompost in local markets

Before the ARYA Project intervention, the farmer's annual income from vermicompost was in the range of Rs. 28,350 to Rs. 36,000. He encountered challenges in areas such as marketing and production knowledge. With the support of the ARYA Project, including training and demonstrations, his annual income has significantly increased to Rs. 1,51,500. Furthermore, the intervention has resulted in a cost saving of Rs. 1,36,350 in the production of vermicompost manure.



### 3.29 Mushroom Production, Jaintia Hills

#### Background of the farmer:

- **Name:** Shri. Foster Kharsahnoh
- **Age:** 36
- **Village:** Sohphoh
- **Members involved:** A group of 4 members.



Foster Kharsahnoh, an active participant in the ARYA programme of the Krishi Vigyan Kendra (KVK), has exemplified the transformative impact of the initiative, particularly in the realm of Mushroom Production Enterprise.

Within the framework of the ARYA programme, Foster underwent extensive training and hands-on demonstrations in mushroom production. Furthermore, he accessed substantial assistance, receiving 50% financial support for the construction of a dedicated mushroom house, along with the provision of 40 cultivation baskets and 50 packets of spawn. In the period preceding his involvement in the ARYA Project, Foster's annual farming income amounted to Rs. 2,00,000.



#### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated	Assets created	Role of as a progressive farmer
1,20,000	1,10,000	12	21	Upgrade of farming units	Mushroom Production Trainer in his own village

Mr. Foster Kharsahnoh has successfully maintained an average income of Rs. 5,29,000 through his engagement in both mushroom cultivation and other farming activities. His involvement in mushroom production has proven to be a valuable additional income source. Mr. Kharsahnoh advocates a proactive approach among the youth, urging them not to rely solely on government grants to initiate their



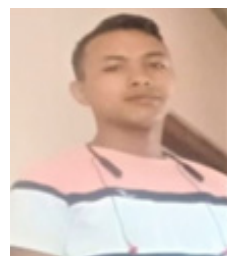


ventures. Instead, he emphasizes the importance of taking the initiative independently and subsequently seeking support.

Furthermore, Mr. Kharsahnoh encourages the youth to explore farming as a viable employment opportunity, discouraging them from waiting for government jobs. His belief is in cultivating various farming activities as a means of personal and economic growth. By sharing his own success story, Mr. Kharsahnoh inspires young individuals to embark on entrepreneurial journeys, promoting self-reliance and fostering a spirit of initiative within the community.

### 3.30 Piggery Farming, Jaintia Hills

Shri. Rapheal Ting, a 19-year-old farmer with an education up to Class V, resides in the village of Niawkmai. Engaged in piggery farming, he leads a group of four members in this agricultural venture. Despite his limited formal education, his dedication to the farming profession underscores the importance of hands-on experience and community collaboration in sustaining agricultural practices within the rural setting of Niawkmai.



Through the ARYA program Shri. Rapheal Ting and his team actively participate in the Piggery Enterprise. They have benefited from the program through training, demonstrations, and crucial support, including 50% financial assistance for the construction of their piggery unit and the provision of 10 piglets. Before the initiation of the ARYA Project, his annual income amounted to Rs. 1,33,200, primarily derived from daily wage labour and traditional farming activities. The intervention of the ARYA program has significantly contributed to transforming their livelihood by introducing technological advancements and financial support in the realm of piggery farming.



### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated	Assets created	Role of as a progressive farmer
2,55,000	1,56,500	2.58	60 days	Upgrade and Upscaling of the Enterprise	Encourages the youth to take up the enterprise and not feel shy to take up farming as income generating work.

*\*The data on the table represent only from piggery enterprise. He is still working on daily wages apart from pig farming during his free time of the day. He is earning at average of Rs. 2,96,900 per year with pig farming and daily wages.*

In conclusion, it's crucial for young individuals not to underestimate their potential for earning. Numerous opportunities, such as pig farming, are available and can be pursued with determination. Aspiring entrepreneurs should recognize that viable paths exist for them to harness their skills and ambitions, and ventures like pig farming stand as tangible examples of possibilities waiting to be explored. The key lies in seizing these opportunities with confidence and dedication



### 3.31 Vermicompost Production, Jaintia Hills

Shri. Lastbornson Lamare, a 24-year-old resident of Nangbah village, is engaged in the field of piggery farming. Alongside a dedicated group of four members, he manages and operates his farm. Despite his young age, Lastbornson is actively involved in the agricultural sector, contributing to the sustainable practices of pig farming in his community.



Under the guidance and support of KVK Jaintia Hills, Shri. Lastbornson Lamare has benefited from training and demonstrations on Vermicompost production. Additionally, KVK provided essential financial assistance, covering 50% of the construction cost for his pig shed and supplying eight piglets to bolster his piggery venture. Before participating in the ARYA project, Lastbornson's annual income amounted to Rs. 97,500, sourced from daily wages and various farming activities.

### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated	Assets created	Role of as a progressive farmer
1,40,000	90,000	2.8	15	Upgrading the pig shed	Encourage the youth to take up piggery as an income generating during time crises.

He advocates for young individuals to embrace entrepreneurship without hesitation, particularly in the realm of farming as a viable source of income. Despite continuing his daily wage work, Lastbornson actively engages in pig farming during his free time, achieving an average annual income of Rs. 1,87,500. He expresses gratitude to the KVK Jaintia Hills for their support through the ARYA Project, emphasizing his determination to elevate his pig farming endeavors and further augment his income in the future.



### 3.32 Mushroom Production, Jaintia Hills

Smt. Riki Shylla, a 28-year-old resident of Longnoh village, possesses a ninth-grade education and leads a group of four individuals in the domain of mushroom production. Engaging in this agricultural venture, Smt. Shylla and her team actively contribute to the cultivation and harvesting of mushrooms in their local community. Their collective efforts not only reflect their commitment to sustainable farming practices but also highlight the potential for economic empowerment and nutritional enrichment within the region through their mushroom production initiatives.



She actively participates in the ARYA program facilitated by the KVK Jaintia Hills, where her focus lies in mushroom production. Under this initiative, she has received valuable support and guidance from KVK, including training sessions and practical demonstrations on mushroom cultivation. Additionally, KVK has provided financial assistance, covering 50% of the construction costs for the mushroom house. Before engaging in the ARYA project, Smt. Shylla's annual income ranged from Rs. 28,350



to 36,000, derived from a combination of daily wage labor and traditional farming activities.

### Significant Achievements:-

Gross income (in Rs.)	Net income (in Rs.)	BC Ratio	Manpower generated.	Assets created	Role of as a progressive farmer
2,30,000	1,18,815	4.77	52	Upscaling of Mushroom production	An active VO in her village

Smt. Riki Shylla and her team underwent comprehensive training and demonstrations in mushroom production through the ARYA project, receiving essential support, including 50% financial assistance for the construction of a low-cost mushroom house. Engaging in five cultivation cycles annually, she has significantly expanded her income sources. Prior to the ARYA project, her annual earnings from daily wages amounted to Rs. 33,000. Despite her continued involvement in daily wage work, she actively promotes agricultural entrepreneurship among the youth in her village through her role as a proactive Village Organizer (VO). Juggling her daily wage work, mushroom farming, and VO responsibilities, she now boasts an average annual income of Rs. 1,51,815. Smt. Shylla expresses gratitude to the KVK Jaintia Hills for their invaluable support in her transformative journey.



