



ANNUAL PROGRESS REPORT 2025



**Krishi Vigyan Kendra
Champhai District, Khawzawl**

**Department of Agriculture & Farmers' Welfare
Government of Mizoram**

ICAR-ATARI Zone VII-Umiam

Staff Position

SL. NO.	NAME OF THE INCUMBENT	DESIGNATION
1	Dr. Malsawmkimi	Sr. Scientist & Head
2	R. Vanlalduati	Subject Matter Specialist (Soil Science)
3	Rambuatsaiha	Subject Matter Specialist (Agronomy)
4	Dr. Lalngaihawmi	Subject Matter Specialist (Plant Protection)
5	Malsawmkima Vanchhawng	Farm Manager
6	Lalhruaitluangi	PA (Home Science)
7	Samuel Lalhruaitluanga	PA (Computer/IT)
8	Maria Lalthafamkimi	Assistant
9	C.Lalramthangi	Stenographer
10	Lalnuntluanga	Driver
11	R.Dengliana	Driver
12	Vanlalvenhima	Skilled Supporting staff
13	C. Vanlalpeka	Skilled Supporting staff

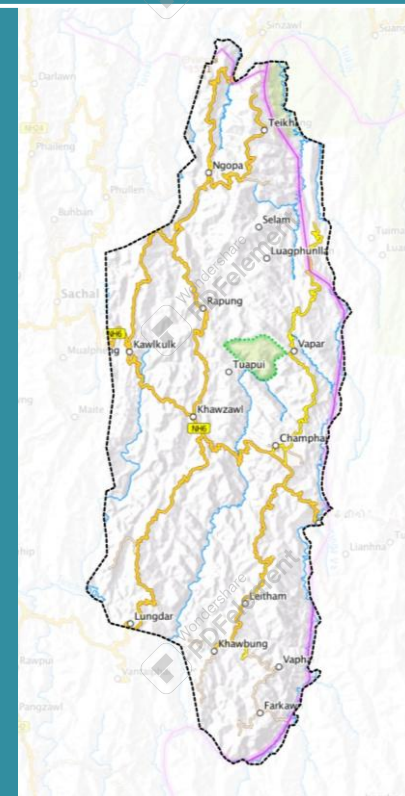
Infra-structure facilities/ Vehicle

Sl. No.	Infra-structure facility	Present Status			Remarks (including quantity and quality at present)
		Existing/ Completed	On-going	New proposal	
1.	Administrative building	Completed			1
2.	Staff Quarters	Completed			6, Need repairs
3.	Farmers' hostel	Completed			1, Need repairs
4.	Demonstration Units	Completed			5
5.	Fencing/boundary wall	Completed			Need repairs
	Vehicle-	Pl. tick (v) on appropriate status			
6.	a. Four Wheeler		Running (v)		1, running but needs frequent and major repair.
	a. Tractor		Running(v)		1
	a. Power Tiller		Running(v)		1
7.	Cold Storage		Running (v)		1
8.	Plant Health Clinic		Running (v)		1
9.	Automatic Weather Station		Running (v)		1
10	IFS Unit				1



Details of Villages in the KVK District

Total No of Villages in the District	Total no of Villages adopted by KVK till date	Total No of Villages covered by KVKs interventions/activities	% of Villages Covered based on Col. i & iii
92	40	86	93.47



Seed Materials Produced

Major group/class	Crop wise	Variety	Quantity (qt)
Cereals	Paddy	RCM 13	22
	Maize	RCM75	2
Oilseed	Groundnut	TAG 73	5
Pulses	Field Pea	Azad Pea 3	10
Vegetable	Potato	Kufri Jyoti	15

Planting Materials

Major group/class	Crop	Variety	Quantity (In No.) produced
Vegetable	Tomato	Arka Abhed	45000
	Brinjal	Arka Keshav	5500
	Chilli	Arka Khyati	5700
Fruit	Water Melon	Arka Muthu	2500
Tree Species	Tree Bean	Tahlim	4000
	Drumstick	PKM-1	12000

Production of Bio-Products during 2025

Product Name	Species/ Breed	Target		Quantity produced	
		No.	Kg.	No.	Kg.
Vermicompost	<i>Eudrilus eugenie</i>	-	8500	-	9100

Details of samples analyzed (2025)

Sl. No.	Samples tested/ Analysed	Sample (No.)	Farmer beneficiaries	Village covered
1.	Soil Sample	130	157	9
2.	Plant Sample	55	62	4

Budget Utilization Status 2025

Main Scheme	Received	Expenditure
Pay & Allowances	1,23,41,378.00	1,23,41,378.00
Contingencies	11,90,000.00	11,90,000.00
Total	1,35,31,378.00	1,35,31,378.00

Status of Revolving Fund (Rs.) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance with KVK (Rs.)
2022-2023	2,24,396	48,158	38,000	2,34,554
2023-2024	2,34,554	1,75,628	58,924	3,51,258
2024-2025	3,51,258	1,08,280	35,780	4,23,758

Diagnostic visit



Introduction and Distribution of Potato Seeds in collaboration with IARI(ICAR) NEH scheme and CPRI, Shillong



Sl No	Particulars	Name of Variety			
		Kufri Jyoti	Kufri Pukhraj	Kufri Megha	Kufri Chipsona-3
1	Season of Cultivation	Rabi	Rabi	Rabi	Rabi
2	No of Farmers	19	15	7	12
3	Yield (q/ha)	120	124	100	105



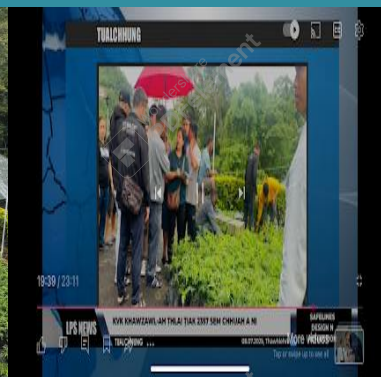
Achievement on other schemes

PM RKVY (Agroforestry)

No of seedling Distributed : 3871



Sl No	Tree spp.	Local Name	No (Approx)
1	<i>Vernicia spp.</i>	Tung	5750
2	<i>Dysoxylum spp</i>	Thingthupui	2500
3	<i>Parkia roxburghii</i>	Zawngtah	6000
4	<i>Zanthoxylum spp.</i>	Chingit	2500
5	<i>Senegalia spp.</i>	Khawnghu	10000
6	<i>Embelica officianalis</i>	Sunhlu	23250
TOTAL			50000



IIHR NEH SUB – Scheme





Special Programmes during 2025

Name of programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Poshan Pakhwada	Nutrition awareness campaign	8 th -22 nd April 2025		
VKSA	Awareness campaign	29 th May- 12 th June 2025	ICAR	3,50,000/-
World Environment Day	Awareness Programme	5 th June 2025		
PM Kisan Samman Nidhi	Live streaming of the 20 th installment of PM-KISAN	2 nd August 2025	ICAR	42,500/-
PM Dhan Dhanya Krishi Yojana	Launch of PM Dhan Dhanya Krishi Yojana & Mission for Aatmanirbharta in pulses	11 th September 2025	ICAR	75,000/-
Hindi Diwas	Encouragement to use Hindi at workplace	15 th -30 th September		
Swachchhta Hi Sewa	Cleanliness campaign	17 th September – 2 nd October 2025		
Janjatiya Gaurav Diwas	Awareness Campaign	1 st -15 th November 2025		
KM Kisan Samman Nidhi	Live streaming of the 21 st installment of PM-KISAN	19 th November 2025	ICAR	30,000/-
World Soil Day	Awareness & Training Programme	5 th December, 2025		
Swachhta Pakhwada	Awareness, Cleaning of Public places	16 th – 31 st December 2025		
Kisan Diwas	Awareness, seed distribution	23 rd December 2025		27500/-

VKSA

- Soil health campaign
- Modern agricultural practices for Kharif crops
- Soil and water conservation
- Climate resilient technologies
- Natural farming
- Composite fish culture
- Off-season vegetable cultivation
- Vermicomposting
- Integrated Farming System
- Resource Conservation Technologies
- Animal feed/health management
- Campaigning on Govt. Schemes



Total no. of village covered: 78
Total no. of Farmers: 6977



PM Special Programmes



PM Kisan Samman Nidhi



PM Dhan Dhanya Krishi Yojana

Swachhata Programmes



Swachhta Pakhwada

Swachhta Hi Sewa



Vigilance Awareness Week

Janjatiya Gaurav Diwas



World Environment Day

World Soil Day



Poshan Pakhwada

Hindi Diwas

Success story

Name PC Lalrinmawia

Age : 30 Years

Village: Neihdawn

Total harvest: 285 qtls

Income: 16 lakhs

Interventions: Training, Demonstration, Seeds

Highest production records among Tomato growers under khawzawl and champhai district



Collaborative Training Programme with HIL and Dhanuka Pesticides Company



Awards & Recognition

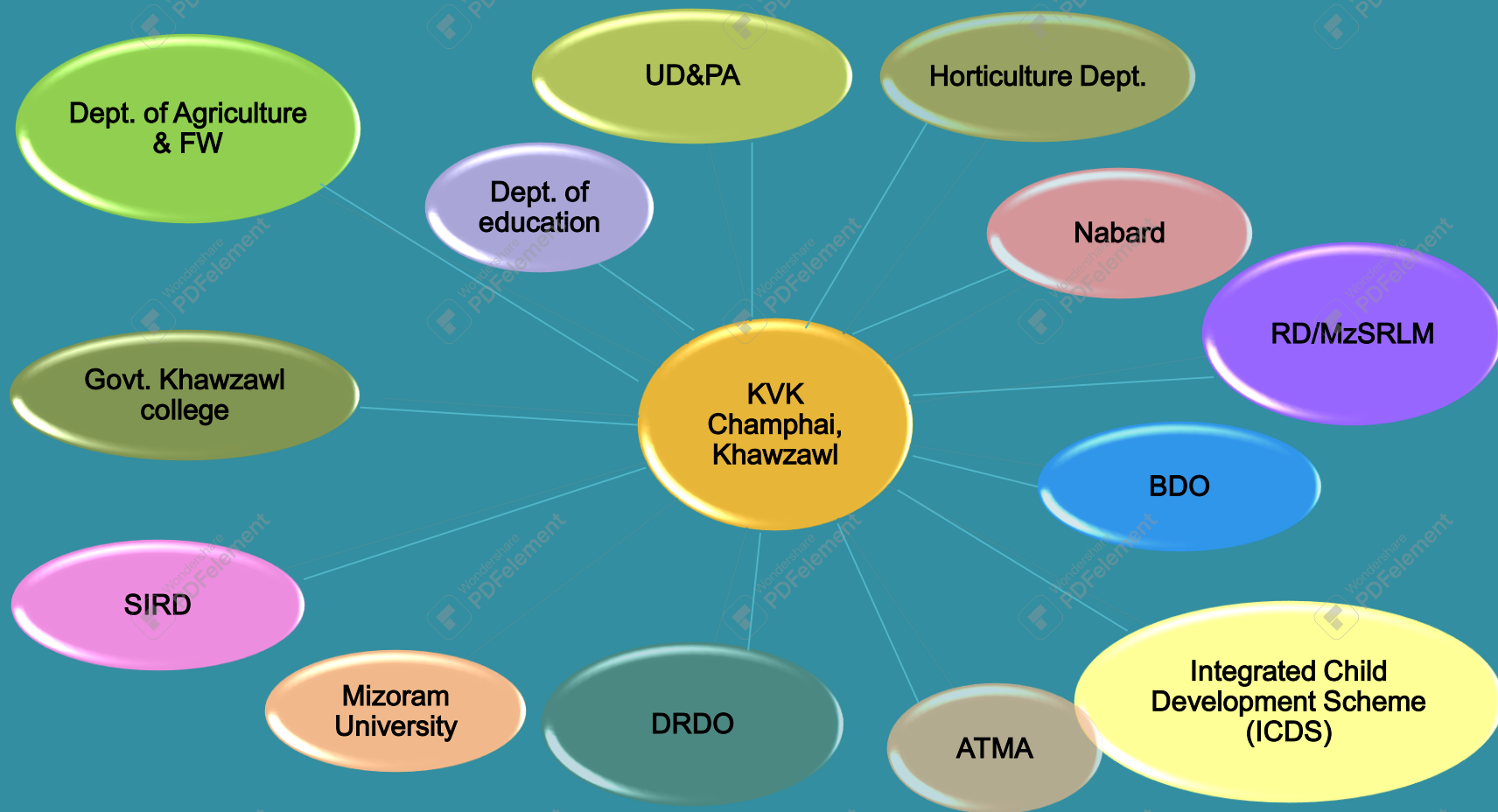
1st Prize in Cleanliness Competition (Govt. Offices' Category)



IIHR Bengaluru Awarded Innovative Farmer Award to Mr. Lalchawimawia, Rabung on 9th Sept., 2025

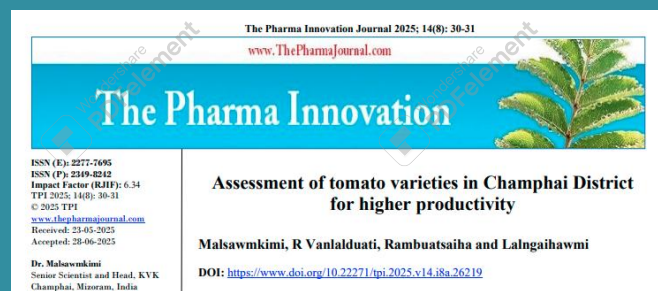
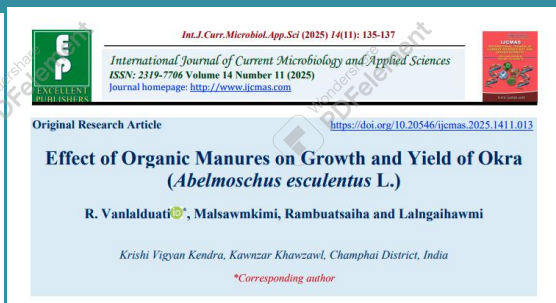
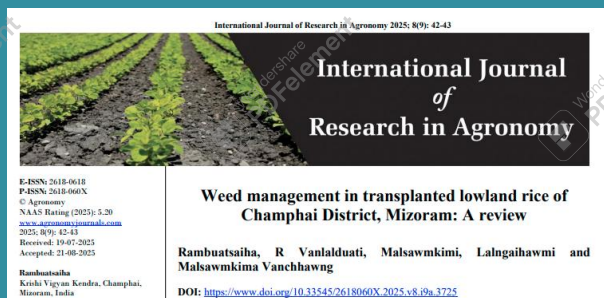


Functional Linkages established with other Departments



Literature Published

Sl. No.	Title /and Name of Journal	Authors name
1.	Weed Management in Transplanted Lowland Rice of Champhai District : A Review. <i>International Journal of Research in Agronomy. Vol 8, Issue 9, Part A, pp 42-44</i>	Rambuatsaiha, R Vanlalduali, Malsawmkimi, Lalngaihawmi, Malsawmkima Vanchhawng
2.	Effect of Organic Manures on Growth and Yield of Okra (<i>Abelmoschus esculentus</i> L.) <i>Int.J.Curr.Microbiol.App.Sci.2025.14(11): 135-137</i>	R. Vanlalduali, Malsawmkimi, Rambuatsaiha and Lalngaihawmi
3.	Assessment of tomato varieties in Champhai District for higher productivity. <i>The pharma Innovation International Journal, Vol. 14, Issue 8 (2025)</i>	Malsawmkimi, R Vanlalduali, Rambuatsaiha and Lalngaihawmi
TOTAL	3	



Training Programmes



Training Programmes contd..



DISCIPLINE WISE PROGRESS REPORT

2025

ON FARM TESTING

OFTs (Discipline-Wise Summary) 2025

Discipline	Crop/enterprise	No. of Technology/ Social Concept/ methodology to be		No. of trials proposed	
		Assessed	Refined	Assessment	Refinement
Agronomy	Paddy	1	-	3	-
	Sunflower	1	-	3	-
Soil Science	Cauliflower	1	-	3	-
	Chilli	1	-	3	-
Plant Protection	Paddy	1	-	3	-
	Watermelon	1	-	3	-
Total		6	-	18	-

FRONT LINE DEMONSTRATION

FLDs (Discipline-Wise Summary) 2025

Discipline	Crop/enterprise	No. of Technology/ Social Concept/ methodology	No. of demonstration	Area (ha) covered/ no. of items/activity	No. of participants/ famers covered
Agronomy	Groundnut	1	10	5	10
	Maize	1	10	5	10
Soil Science	Ginger	1	10	5	10
	Compost	1	10	10 units	10
Plant Protection	Ginger	1	10	5	10
	Tomato	1	10	5	10
Total		6	60	25 ha 10 units	60

AGRONOMY

PROGRESS REPORT: 2025

On Farm Trial 2025

Agronomy- Varietal evaluation of Paddy Var RCM 13

1st Year

OFT 1

Crop/Enterprise: Rice

Source and year of release: ICAR, Manipur, 2012

No. of trials: 3

Location : Rabung, Vangtlang, Hnahlan

Major Problem diagnosed: Lack of suitable short/ medium duration paddy variety

Details of Technology:

TO 1: Introduction of Paddy Var: RCM 13
TO 2: Farmers Practice

Seed Rate: 50-60 kg/ha
Spacing: 20 x 10 cm
NPK: 60:40:40 kg/ha
10-15t FYM/ha



Detail of Technology	Plant Ht (cm)	No.of Tillers	Length of Panicle (cm)	No. of Grains / Panicle	Test weight	Days Duration	Yield (t/ha)	Economics (Rs in lakh)		B:C
								GR	NR	
TO1:. RCM 13	105	19	25.25	296	22	120	4.9	1.14	0.665	2.4
TO2 : Farmers Practice	119	16	24	273	20	140	4.3	0.96	0.53	2.2

Agronomy- Assessment on performance of Sunflower

Crop/Enterprise: Sunflower

Source and year of release: UAS, 2002, UAS, 2021

No. of trials: 3

Location : Rabung, Biate, Khawzawl

Details of Technology:

TO1: KBSH 44

TO 2: KBSH 85

TO 3: Farmers Practice

Seed Rate: 5-6 kg/ha

Spacing: 60 x 30 cm

NPK: 60:60:60 kg/ha

Borax (2g/litre) at star bud stage



Detail of Tech.	Plant Ht (cm)	Head diameter (cm)	Seed wt/head (g)	No. of seeds per head	Oil Recovery (%)	Seed yield Kg/ha	Test wt. (g)	Economics (Rs(in lakh)/ha)		B:C
								GR	NR	
TO 1 KBSH 44	166.4	18.25	55.8	722	36.5	950	8.23	1.21	0.74	2.57
TO 2 KBSH 85	171.2	19.2	55.4	748	36.9	946	8.62	1.22	0.75	2.59
TO 3 Local	165.8	16.92	50.12	670	35.48	854	7.12	1.01	0.55	2.19

Front Line Demonstration 2025

Agronomy: Popularization of Groundnut Var TAG 73

Crop/Enterprise:

Groundnut

Technology demonstrated:

TO1: TAG 73

TO2 : Farmers Practice

(NPK: 25:50:75 NPK Kg/ha

FYM: 20t/ha

Seed rate: 125 kg/ha

Spacing: 30 x 10 cm

No. of demonstrations: 10

Location : Khawzawl, Biate, Neihdawn

Demonstration Yield (q/ha)			Yield of Local Check (q/ha)	% increase/change in average yield over local	Gross Cost (Rs in lakh/ha)	Gross Return (Rs in lakh/ha)	Net Return (Rs in lakh/h a)	B:C
H	L	A						
15.5	8.9	12.2	10	8.9	0.805	1.65	0.845	2.04

Source of technology:
PDKV, Akola 2020



Front Line Demonstration 2025

Agronomy: Popularization of Short Duration Maize Variety Pusa Vivek QPM 9

Crop/Enterprise: Maize

Technology demonstrated:

TO1: Pusa Hybrd QPM 9

TO 2: Farmers Practice

Seed Rate :20 kg/ha

Spacing: 60 x 25cm

RDF@120: 60:30 NPK Kg/ha,
75% RDF:+FYM 12.5 t /ha +
Azospirillum 2 kg/ha, PSB 2kg/

No. of demonstrations:

10

Location : Khawzawl, New
Chalrang, Zotlang

Demonstration Yield (q/ha)			Yield of Local Check (q/ha)	% increase/ change in average yield over local	Gross Cost (Rs in lakh/ha)	Gross Return (Rs in lakh/ha)	Net Return (Rs in lakh/h a)	B:C
H	L	A						
58	42	50	47	17	0.345	1.1	0.755	3.1

Source of technology:

ICAR, IARI-2017



Training Programme

Discipline	No of Training/ Course	Beneficiaries (Nos.)				
		On	Off	Sponsored	Vocational	Total
Farmers	8	30	90	50	-	170
Rural Yputh	4	40	30	30	20	120
Extension Personnel	1	-	15	15	-	30
TOTAL	12	70	135	95	0	300



SOIL SCIENCE PROGRESS REPORT: 2025

Soil Science - Micronutrient Management in Cauliflower

Crop/Enterprise: Cauliflower**Major Problem diagnosed:** Low yield due to Micronutrient deficiency and less availability to crop**Details of Technology:****T0-1**

Soil application of ZnSO₄ @ 15kg/ha, Borax @ 15 kg/ha, Ammonium Molybdate @ 02 kg/ha + Foliar spray of ZnSO₄ @ 0.25%, Borax @ 0.25% , Ammonium Molybdate @0.10% 30 DAT two times at 15 days interval+ RDF Cauliflower (100: 75:50 NPK kg/ha)

T0-2

Farmers Practice-(100:60:60 NPK)

Source and year of release: DSRF, ICAR RC NEH Umiam, Meghalaya, 2023

Parameters on Assessment	T01	T02
Weight of curd (g)	453	370
Gross Return (Rs/ha)	3,75,000	3,36,000
Net Return (Rs/ha)	2,45,690	2,11,556
Yield (q/ha)	125	112
B: C ratio	2.9	2.75
Soil Status	Before	After
Soil pH	4.79	4.82
Available N (Kg/ha)	268.5	281.4
Available P (Kg/ha)	13.2	19.8
Available K (Kg/ha)	186.4	201.7



On Farm Trial 2025

1st Year

OFT 2

Soil Science - Assessment of AAU Bio guard (Organic growth promoter, Bio-protectant and crop immuno-booster) for yield enhancement in Chilli

Crop/Enterprise: Chilli

Source and year of release: Assam Agricultural University, Jorhat, 2024

Major Problem diagnosed: Low yield due to less nutrient uptake and disease incidence



Details of Technology: TO-1

AAU Bio guard- Seed treatment @ 10ml/L for 30 minutes + Seedling dip (1%) + Soil application @ 10ml/L at 30 DAT + Foliar spray @ 10ml/L at 30,60 and 90



TO-2

Farmers Practice- Dithane M-45 @ 2g/L



Parameters on Assessment	TO1	TO2
Disease incidence (%)	16	34
Gross Return (Rs/ha)	3,45,000	3,12,500
Net Return (Rs/ha)	2,26,035	1,96,760
Yield (q/ha)	138	125
B: C ratio	2.94	2.74

Soil Status	Before	After
Soil pH	4.76	4.83
Available N (Kg/ha)	272.5	286.8
Available P (Kg/ha)	13.2	17.6
Available K (Kg/ha)	189.5	201.3



Front Line Demonstration 2025

Soil Science: Sustainable Ginger Production through Integrated Nutrient Management

Crop/Enterprise: Ginger

Technology demonstrated:

RDF NPK: 80:50:60 Kg/ha

TO-1

75% NPK Kg/ha+

Vermicompost- 2 tonnes/ha

+PSB @ 10 kg/ha +Azospirillum @ 10

kg/ha

TO-2

Farmers Practice



Demonstration Yield (q/ha)

**Yield of
Local Check
(q/ha)**

**% increase/
change in
average yield
over local**

**Gross Cost (Rs
/ha)**

**Gross Return
(Rs/ha)**

**Net Return
(Rs/ha)**

B:C

H

L

A

142.3

105.7

124

97

24%

1,58,200

4,96,000

3,37,800

3.1

Front Line Demonstration 2025

Soil Science: Assessment of bio-decomposer for paddy straw left in the field

Technology demonstrated:

TO-1: Urea (5 kg in 100 L water)+Cow dung slurry (10 kg in 100 L water)+Tech NRRI decomposer :Culture suspension (1 kg in 100 L water)
Spread first layer of paddy straw up to 15-20 cm height (7 m X 1.5mX 1m) on the surface soil
TO-2: Farmers practice

Soil Status			Demonstration Yield (q/ha)			Yield of Local Check (q/ha)	% increase/change in average yield over local	Gross Cost (Rs in lakh/ha)	Gross Return (Rs in lakh/ha)	Net Return (Rs in lakh/ha)	B:C
Parameters	TO1	TO2	H	L	A						
Available N (kg/ha)	391.4	348.2	15.3	12.75	10.2	8.7	17.2%	9,200	20,400	11,200	2.2
Available P (kg/ha)	21.5	18.3									
Available K (kg/ha)	287.1	248.6									



Training Programme

Discipline	No of Training/ Course	Beneficiaries (Nos.)				
		On	Off	Sponsored	Vocational	Total
Farmers	7(11)	40	80	80	30	230
Rural Youth	3(4)	25	35	70	-	130
Extension Personnel	1(1)	-	-	15	-	15
TOTAL	11(16)	65	115	165	30	375



PLANT PROTECTION PROGRESS REPORT: 2025

Plant Protection- Bio-intensive Integrated Pest Management in rice

Crop/Enterprise: Rice

Major Problem diagnosed: Low yield due to stem borer & leaf folder infestation

Source and year of release: AICRP on Biological Control of Crop Pests and Weeds, AAU, Jorhat. 2019-20

Details of Technology:

TO1: 1. Two sprays of Azadirachtin 1500 ppm @3ml/litre at 30 and 55 DAT.

2. Yellow sticky trap@10 Nos./ha.

3. Six releases of *Trichogramma japonicum* @100000/ha at 10 days interval starting from 25 DAT against *Scirpophaga spp.*

TO2: Farmers Practice

Parameters on Assessment/ Refined	TO1	TO2
1. Pest Incidence (%)	8.5	18.9
2. Natural enemy population (Nos.)	6.8	3.2
3. Dead hearts (%)	4.6	11.8
4. Leaf damage (Nos./hill)	1.9	4.7
5. Yield (q/ha)	28.09	22.5
6. B: C ratio	2.26:1	1.81:1

No. of trials: 3

Location : Tuisenphai

Remark for recommendation for FLD: Recommended due to less infestation



Plant Protection- Integrated Management of Melon fruit fly in cucurbitaceous vegetables

Crop/Enterprise: Watermelon

Major Problem diagnosed: Low yield due to high incidence of Melon Fruit fly

Source and year of release: ICAR-National Research Centre for Integrated Pest management, New Delhi, 2022

Details of Technology:

TO1: 1. Soil raking to expose fruit fly pupae to sunlight

2. Field sanitation

3. Collection and destruction of all damaged fruits

4. Install yellow sticky traps @ 25/ha prior to flower initiation

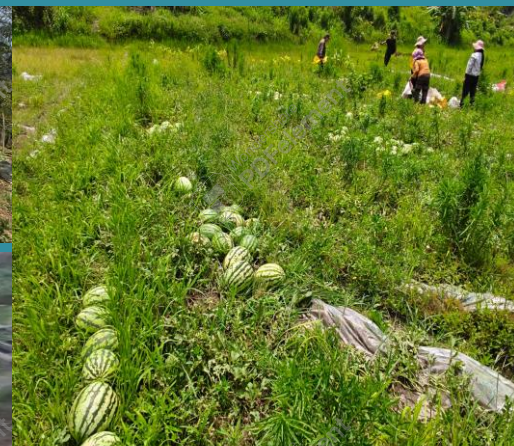
5. Spraying of repellent NSKE or neem oil @ 5ml per litre of water: 6. Cue lure @ 25/ha

TO2: Farmers' practice

Parameters on Assessment/ Refined	TO1	TO2
1. Pest Incidence (%)	15	22.5
2. Fruit damage percentage (%)	13.2	37.4
3. Yield (q/ha)	265	210
4. B: C ratio	3.25	2.15

No. of trials: 3

Location : Chawngtlai, Ngur



Plant Protection: Performance of bio agents for reducing the incidence of Soft rot/ Rhizome rot of Ginger

Crop/Enterprise: Ginger

Technology demonstrated:

Rhizomes treatment of *Trichoderma harzianum* @5g/kg of rhizomes + soil application of 2.5 kg of *Trichoderma harzianum* + foliar application of *Pseudomonas fluorescence* @ 5g/l of water

Source of technology:
College of Horticulture & Forestry, CAU Pasighat, Arunachal Pradesh, 2012

No. of demonstrations: 10

Location : Tuisenphai, Neihdawn

Demonstration Yield (q/Ha)			Yield of local Check (q/ha)	% increase/change in avg. yield over local	Gross Cost (Rs/ha)/ (Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) / (Rs./ Unit)	B:C Ratio (GR/G C)
H	L	A	(q/ha)	%				
145	119	132	104	26.9	192000	660000	468000	3.44



Front Line Demonstration 2025

Plant Protection: Management of fruit borer in Tomato

Crop/Enterprise: Tomato

Technology demonstrated:

Release of *Trichogramma chilonis* 1,00,000/ ha + Collection and destruction of damaged fruits + Yellow Sticky Trap @25-20/ha + Chlorantraniliprole @ 0.3 ml/ lt

Source of technology:

AICRP on Biological Control of Crop Pests, Bengaluru 2019

No. of demonstrations: 10

Location : Chawngtlai, Neihdawn

Demonstration Yield (q/Ha)			Yield of local Check (q/ha)	% increase/change in avg. yield over local	Gross Cost (Rs/ha)/ (Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) / (Rs./ Unit)	B:C Ratio (GR/G C)
H	L	A	(q/ha)	%				
305	265	285	215	32.6	175000	855000	680000	4.89



Training Programme

Discipline	No of Training/ Course	Beneficiaries (Nos.)				
		On	Off	Sponsored	Vocational	Total
Farmer	8	80	60	70	-	210
Rural Youth	5	50	50	60	20	180
Extension Personnel	2	10	-	20	-	30
TOTAL	14	140	110	150		400





Thank you