

Annual Progress Report, 2025



KRISHI VIGYAN KENDRA
Mokokchung; Nagaland
Department of Agriculture, Govt. of Nagaland
(Estd: 2006)



Present Staff Position in KVK

S.N	Name	Designation	Date of Joining	Discipline
1.	Dr. Keviletsu Khate	Sr. Scientist & Head	16/08/2010	AGB
2	Dr. Sarendi walling	ACTO	19.04.2007	Animal science
3	Dr. Martha chakruno	ACTO	19.02.2007	Plant Protection
4	Tokiho Achumi	ACTO	20.02.2007	Agronomy
5	Intilemla	ACTO	11.11.2007	Soil Conservation
6	Khekali Sema	ACTO	11.07.2008	Horticulture
7	Intisenla	ACTO	31.05.2007	Agronomy
8	Seveto Nyekha	Programme Assistant	24/05/2006	Horticulture
9	I. Tangitla	Programme Assistant(Computer)	24/06/2006	BLIS
10	Ilika V Achumi	Farm manager	19/02/2007	Horticulture
11	Kiyelu Choppy	Office Supt-cum-Accountant	15/02/2007	Accounts
12	Imosangla	Jr. Steno-cum-Computer Operator	01/06/2006	-
13	Supongmeren	Driver	01/06/2006	-
14	Jongpongyster	Driver	01/03/2010	-
15	Imkonglemla	Supporting Staff	01/06/2006	-
16	Aotoshi	Supporting Staff	01/03/2010	-

Infra-structure facilities/ Vehicles

Sl	Infra-structure facility	Present Status			Remarks
		Existing/ Completed	On-going	New proposal	
1.	Administrative building	Completed	NIL	NIL	Needs renovation
2.	Staff Quarters	Completed	NIL	NIL	Need renovation
3.	Farmers' hostel	NIL	NIL	NIL	
4.	Demonstration Units	Rain water harvesting pond, Demo. on improved crops, Demo on Natural farming, Orchards , Plantation crop and demo unit on livestock	Poultry	Pig Breeding Unit	
5.	Fencing/boundary wall	Yet to Completed	NIL	NIL	
6.	Vehicle-	Pl. tick (v) on appropriate status			
	a. Four Wheeler	Running /Condemned / Not available			Running
	a. Tractor	Running /Condemned/ Not available			Not available
	a. Power Tiller	Running/ Condemned/ Not available			Running

Details of Villages in the KVK District

Sl No.	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. ii & iv
1	88	25	77	87.50%

Training Programs (Farmers)

Discipline	No. of Training (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% of A
	T	A	% of A	On	Off	Spn	Voc	T		
Agronomy	13	24	184.6	61	559	-	-	620	298	208
Horticulture	10	14	140		278	-	-	278	215	129.30
Plant Protection	6	10	167	15	435	-	-	450	135	333
Soil Conservation	6	21	350	-	726	-	-	726	150	484
Animal Science	4	8	200	-	242	-	-	242	100	242
Total	42	77	1041.6	76	2240	276	-	2038	898	1396.3

Training Programs (Rural Youth)

Discipline	No. of Training (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% of A
	T	A	% of A	On	Off	Spon.	Voc.	T		
Agronomy	2	2	-	19	-	-	-	19	53	-
Horticulture	2	-	-	-	-	-	-	-	-	-
Plant Protection	3	2	67	6	18	-	-	24	50	48
Soil Conservation	1	-	-	-	-	-	-	-	15	-
Animal Science	3	3	100		54			54	60	90
Total	11	7	167	25	72			97	178	138

Sponsored Training Programs

Sl. No.	Sponsored Agency/ Org/ Dept.	No. of Training prog. (No. of courses/topics)			Beneficiaries/ participants (No.)			Remark
		T	A	% of A	T	A	% of A	
1	Directorate of Groundnut Research	2	3	150	30	77	256.6	-



Extension Activities

Extension Activity	Activity			Beneficiaries		
	Target (2025)	A (Nos.)	% of A	Target (Nos.) 2025	A (Nos.)	% of A
Advisory services	-	11	-	-	42	-
Diagnostic visit	20	7	60	35	48	438
Field day	33	21	66.66	115	40	73.8
Scientist visit	30	34	365	94	186	546.5
Group Discussion	2	7	300	50	77	142
Field visit	30	42	-	60	139	-
Leaflets/folder	-	6	-	-	-	-
Soil Health camp	1	1	-	30	39	-
Method demonstration	10	29	750	170	375	623.3
Celebration of important days	5	7	-	15	81	-
Lecture delivered as resource person	-	15	-	-	544	-
Farmer-Scientist interaction	2	3	200	50	77	
Awareness camp	-	31	-	-	-	203.33
Farmers/ students visit to KVK farm	-	2	-	-	-	-

News paper coverage	7	10	133.3	-	-	-
Animal Health camp	2	2	100	100	54	54
Extension literature	1	1	100	100	100	100
Viksit Krishi Sankalp Abhiyan	-	33	-	-	2954	-
Swachhta Action Plan	-	3	-	-	20	-
Film show	2	2	-	40	59	-
Radio talk	2	4	-	-	-	-
Total	147	271	-	859	4835	-

Soil & Water Testing/Soil Health Cards (SHCs) 2025

Samples tested/ Analysed	Sample (No.)	Farmer beneficiaries	Village covered	Amount realised (Rs.)	SHCs issued to farmers (Nos.)
Soil sample	140	100	8	-	100
Total	140	100	8	-	100

Publications of KVK (2025)

Item	Nos.	Title and Name of Journal	Produced/published
Newspaper coverage/ articles	5	1. Aluyimer asoshi metsu mol amshiyim nung shisa luyim (safe and judicious use of fertilizers)	Broadcast AIR, 4 th March & 24 th July '25
		2. Ali pH- ali yimya jakla (Soil pH)	Published Local dailies, 30 th July'25
		3. Ali tasen nung aluyimba (Agriculture in acidic soil: liming- importance & benefits)	Broadcast AIR, 21 st Aug'25
		4. Aluyimba nung tebilemdangtsu kar (Soil related production constraints with reference to Mokokchung district)	Broadcast AIR, 11 th Sept'25
		5. Causes of pig infertility and its management	Published Local dailies, 8 th & 19 th Sept'25
Leaflets	4	1. Soil testing	-
		2. Balanced use of fertilizers	
		3. Jal Shakti Abhiyan	
		4. Soil Moisture Indicator	
Folders	3	1. Vermicomposting	
		2. Soil and water conservation techniques	
		3. Improved package of practice of groundnut	
Books	-	-	-
TOTAL	12		

Planting Materials produced in 2025

Item	Crop	Variety	Target (No)	Quantity produced (No)	% of A	Value (Rs.)	Qty. Supplied to farmers(no)
Vegetables	Cabbage	Rare ball	2000	2300	115	2/seedlings	10
	Broccoli	Green magic	3000	2700	90	2/seedlings	12
	Tomato	Rocky	3000	3800	126.6	2/seedlings	10
Total			8000	8800	101.1		32

Seed produced in 2025

Item	Crop	Variety	Target (q)	Quantity produced (q)	% A	Value (Rs.)	Qty Supplied to farmers (Nos)
Oilseed	Soyabean	MACS-1460	1	1.5	150	18000	20 Farmers
Cereal	Paddy	RCM-15	2	2	100	11000	10 Farmers
Total			3	3.5	116.6	29000	30 Farmers

Status of Mobile Advisory 2025

Message type sent	Crop		Livestock		Weather		Marketing		Awareness		Other Enterprise		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	71	23016	3		118		0		5	2692	2		199	27027
Total	71		3		118		0		5		2		199	27027

Status of Revolving Fund (RF) during 2025

Sl. No.	Activities	Opening balance as on 1 st April, 2025	Income during the year	Expenditure during the year	Net balance in KVK as on 31 st March, 2026
1	Farm produce & Livestock	169933	51200	115000	106133

Functional Linkages established with different Organizations during 2025

Name of organization	Nature of linkage
State Agricultural Research Station (SARS), Yisemyong	Joint implementation of extension activities, training, meeting, trials and demonstrations.
DAO, DHO, DVO, DSCO, DFO,LRD in the district, ATMA Mokokchung.	Conducting training, demonstration and field monitoring of technologies
ICAR, Jharnapani & Nagaland University	Consultation, meeting and exchange of technologies
NABARD	Grant assistance and support for Collaborative rural development programs

Training Programs



Celebration of Important Days

Radio Kisan Diwas: 15th Feb 2025
World Soil Day : 5th Dec 2025
Kisan Diwas : 23rd Dec 2025
Poshan Pakhwada : 8th -22nd April 2025



Swachhta Activities



Swachhta Action Plan (Vermicomposting)



No. of adopted villages: Aliba, Chungtia, Marep
No. of units constructed: 23

Viksit Krishi Sankalp Abhiyan



Latitude: 26.372732
Longitude: 94.54298
Altitude: 944.46±15 m
Accuracy: 14.2 m
Time: 05-30-2025 10:35
Note: Yimchalu

Powered by Note



Latitude: 26.393686
Longitude: 94.532746
Elevation: 1263.06±13 m
Accuracy: 12.6 m
Time: 05-30-2025 15:43
Note: Mopungchuket

Powered by NoteCam

No. of village covered: 67 No. of farmers benefitted: 5897

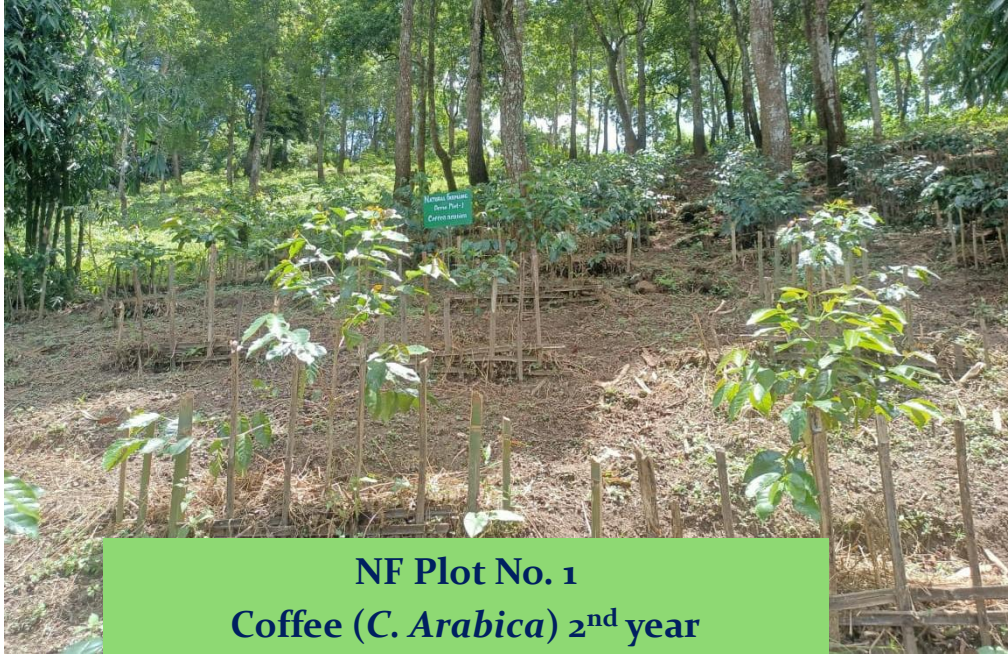
Natural Farming in KVK Farm

- Total Farm Area (ha): 23
- Area under Natural Farming: 3.25 ha
- Area of KVK farm earmarked under Natural Farming (Acre): 5 ha
- Crops Demonstrated :
 - a) Coffee (*C. Arabica*)
 - b) Pineapple + Ground
 - c) Tapioca + Maize

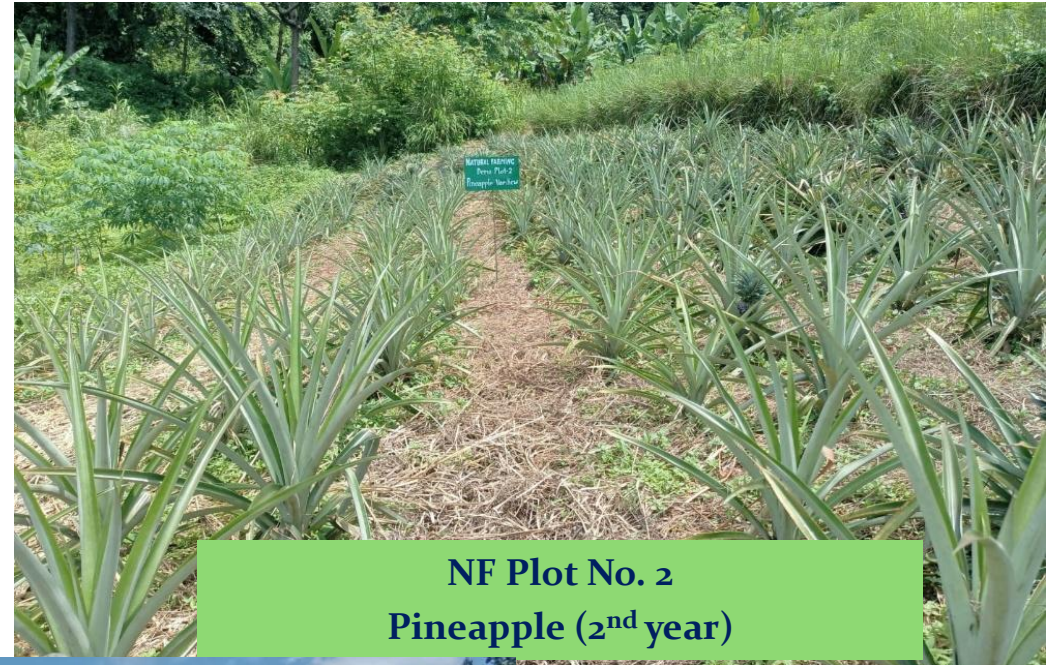
Orchards at KVK Farm being converted to Natural Farming Demo plot:

- a) 0.25 ha under old Mango (Amrapalli) orchard converted to Natural farming 3rd year)
- b) b) 0.25 ha under sweet orange (Malta) under Natural Farming 2nd year)
- c) c) 0.15 ha under grapes (Dominga) 2nd year
- d) 0.15 ha under Dragon fruit (Morroco Red) 2nd year
- e) 1.5 ha area under coffee *C. Arabica* (One district one crop/product) in 2nd year.
- f) 0.75 ha under Acid lime & Kagzi Lime (1st year)

Demonstration plot on Natural Farming at KVK Instructional Farm



NF Plot No. 1
Coffee (*C. Arabica*) 2nd year



NF Plot No. 2
Pineapple (2nd year)



NF Plot No. 3
Tapioca + Maize (1st year)

Bio-Input production unit

Application of Jeevamprit in Demo plot at KVK Farm



Farmers Training on Natural Farming

Sl	Cluster	Round	Number of Training	No. of Farmers Covered		
				Male	Female	Total
1	Mokokchung & Kubolong block	1 st Round	11	705	397	1102
2	Tuli block					
3	Mangkolemba block					
4	Mokokchung & Kubolong block	2 nd Round	11	722	337	1059
5	Tuli block					
6	Mangkolemba block					
Total no. of farmers covered				1427	734	2161



5 days Training for Krishi Sakhis/ Community Resource Persons

Sl	Targeted Beneficiary	Round	Date conducted	No. of participants		
				Male	Female	Total
1	Community Resource Persons	1 st	6 th to 10 th Jan '26	10	5	15
2	Community Resource Persons	2 nd	5 th to 10 th Mar'26	15	5	20
Total				25	10	35



On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	No of technology/ Social Concept		No. of trials		% A	Reasons for short fall if any
		Assessed	Refined	Target	Achievement		
Agronomy	Green gram	1	-	6	6	100	NA
	Soyabean	1	-	3	3	100	NA
	Groundnut	1	-	3	3	100	NA
Horticulture	Carrot	1	-	6	6	100	NA
	Gerbera	1	-	2	2	100	NA
Plant protection	Potato	1	-	3	3	100	NA
	Paddy	1	-	3	3	100	NA
Soil conservation	Chilli	1	-	4	4	100	NA
	Soyabean	1	-	5	5	100	NA
	Tomato	1	-	3	3	100	NA
Animal science	Poultry	1	-	5	5	100	NA
Total		11		43	43		

Frontline Demonstration (Discipline-wise)

Discipline	Crop / Enterprise	No of technology/ Social Concept demonstrated	No. of Demonstration		% A	Reasons for shortfall, if any
			T	A		
Agronomy	Sweet corn	1	15	18	120	NA
	TRC paddy	1	10	10	100	
	Soyabean	1	10	10	100	
Horticulture	Chilli	1	10	10	100	
	Garden pea	1	10	10	100	
Plant protection	Maize	1	8	8	100	
	Ginger	1	8	8	100	
Soil conservation	Off season Cucumber	1	2	3	150	
	Bio enriched compost	1	2	2	100	
Animal science	Dairy	1	5	5	100	
	Poultry	1	10	10	100	
	Piggery	1	3	5	166	
Total		12	93	99		

Annual Progress Report 2025 on Agronomy

Presented by:

**Tokiho Achumi
ACTO Agronomy**

KRISHI VIGYAN KENDRA

Mokokchung; Nagaland

Department of Agriculture, Govt. of Nagaland

(Estd: 2006)



OFT-1 (Agronomy): Performance Assessment of Soybean, Var: KDS-753 & KDS-726

Problem with severity: Low yield in existing variety and low variety replacement (15%)

No. Of trials : 3 (Mongsenyimti & Aliba)

Source of technology: Mahatma Phule Krishi Vidyapeeth, Rahuri, 2020 & 2019

Details of technology

TO1-KDS 726: Duration- 100 to 110 days,
Resistant to rust, tolerant to major pest,
potential yield of 35-40qt/ha

TO2-KDS 753: Duration- 90 to 100 days,
tolerant to draught, Resistant to rust,
Potential yield of 25-30qt/ha



Technology	Parameters	TO1 (KDS – 726)	TO2 (KDS-753)	Check
KDS-753, KDS-726 & Local Check	Av. Pl height	67.16 cm	64.13cm	39.4 cm
	Days to maturity	121 days	108 days	124 days
	No. of seeds per plant	175.4	238	114
	Yield Qt/ha	24.75	26.80	10.70
	B:C Ratio	2.18	2.36	1.45

OFT-2 (Agronomy): Performance of Groundnut Var. Kadiri Lepakshi (K1812)

Problem with severity: Low yield in existing variety

No. Of trials : 3 (Yaongyimti Old & New)

Source of technology: ANGRAU, Kadiri, 2021

Details of technology

To: Kadiri Lepakshi

Duration: 112-120 days

Oil content: 51%

Protein content: 28%

Characteristic: Spanish bunch & drought resistant



Technology	Parameters	K-1812	Local (Check)
Kadiri Lepakshi (K1812)	Av. Pl height	38 cm	43 cm
	Days to maturity	131 days	145days
	NO. of pods per plant	54	38
	Pod Yield qt/ha	22.3	19.78
	Kernel yield qt/ha	14.7	10.61
	B:C Ratio	2.34	2.32

OFT-3 (Agronomy): Performance assessment of Green gram

Problem with severity: Non cultivation and non availability of improved variety

No. Of trials : 3 (Asangma & Medemyim)

Source of technology: HAU, Hisar 2020 & IIPR, Kanpur 2016

Details of technology

TO1-MH 1142 :

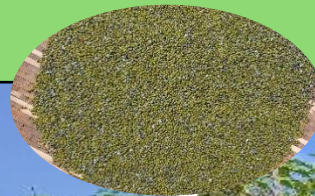
Matures in 60-65 days, Resistant to Mungbean yellow mosaic virus. Potential yield:11-12qt/ha

TO2-IPM 410-3 :

Matures in 65-70 days, Resistant to Mungbean yellow mosaic virus. Potential yield :11-12qt/ha

Technology

Green Gram
(MH 1142 & IPM 410-3)



Parameters

MH 1142

IPM 410-3

Av. Pl height

60.6 cm

46.6 cm

Days to maturity

69

75

No. of pods per plant

63

41.4

No. of Seeds per pod

11.8

11

Yield qt/ha

6.5

5

B:C Ratio

2.70

2.04

ON FARM TESTING - 2025 PERFORMANCE ASSESSMENT OF GREEN GRAM

VARIETY : MH 1142

KIRINJI VIGYAN KENDRA
MOKOKCHUNG

Latitude: 26.530652
Longitude: 94.339277
Elevation: 241.8±15.7 m
Accuracy: 2.0 m
Time: 23-10-2025 12:11
Note: Medemyim

Powered by NoteCam

ON FARM TESTING - 2025 PERFORMANCE ASSESSMENT OF GREEN GRAM

VARIETY : IPM 410-3
KIRINJI VIGYAN KENDRA
MOKOKCHUNG

Latitude: 26.530838
Longitude: 94.338878
Elevation: 265.2±24.5 m
Accuracy: 2.283 m
Time: 23-10-2025 10:45
Note: Medemyim

Powered by NoteCam

FLD-1 (Agronomy): Demonstration on TRC Paddy, Var: RCM-15

Details of technology

RCM-15
Source of technology: ICAR Manipur Centre, 2018
Medium duration: 125-130 days.
Potential yield: 7.8t/ha

No. Of Demo: 10
Area: 1 ha
Location: Longkhum



Yield of Demo plot (q/ha)			Yield of local check (q/ha)	% increase in yield over local	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	B:C Ratio
H	L	Av.	32.5	28.46%	72500	125250	1.72 (RCM 15)
48	35.5	41.75			65250	97500	1.5 (Temesungtsuk)

FLD-2 (Agronomy): Popularization of Sweetcorn var. NSCH-12

Details of technology

- Source of technology: AICRPM, 2013 (Notification Year)
- Excellent shelf life, high yield with high quality cobs and forage
 - Short duration(75-85days), Avg. yield: 95-105 Q/ha

No. Of Demo: 15

Area: 1 ha

Location: Longmisa & Tuli



Yield of Demo plot (q/ha) NSCH 12			Yield of check (q/ha) Sugar 75	% increase in yield over check	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	B:C Ratio
H	L	Av.	77.5	30.00 %	85000	304500	3.6 (NSCH 12)
130	73	101.5			82000	232500	2.8 (Check)

FLD-3 (Agronomy): Popularization of Soyabean Variety: MACS-1460

Details of Technology

Duration: 90-95 days
Oil content: 17.6-18.9%
Protein content: 41%
Plant height: 2.5-3 ft
Recommended for NEH zone

No. Of Demo: 10
Area: 0.5 ha
Location: Aliba & Yisemyong



Aliba



Yisemyong

Yield of Demo plot (q/ha)			Yield of local check (q/ha)	% increase in yield over local	Gross Cost (Rs./ha)	Gross Return (Rs./ha)	B:C Ratio
H	L	Av.	13.7	27.00 %	45250	69600	1.53 (MACS 1460)
19.1	15.7	17.4			45000	54800	1.21 (JS 335)

Annual Progress Report 2025

on

Horticulture

Presented by:

Khekali Sema
ACTO Horticulture

KRISHI VIGYAN KENDRA

Mokokchung; Nagaland

Department of Agriculture, Govt. of Nagaland

(Estd: 2006)



OFT-1 (Horticulture): Performance assessment of improved Carrot

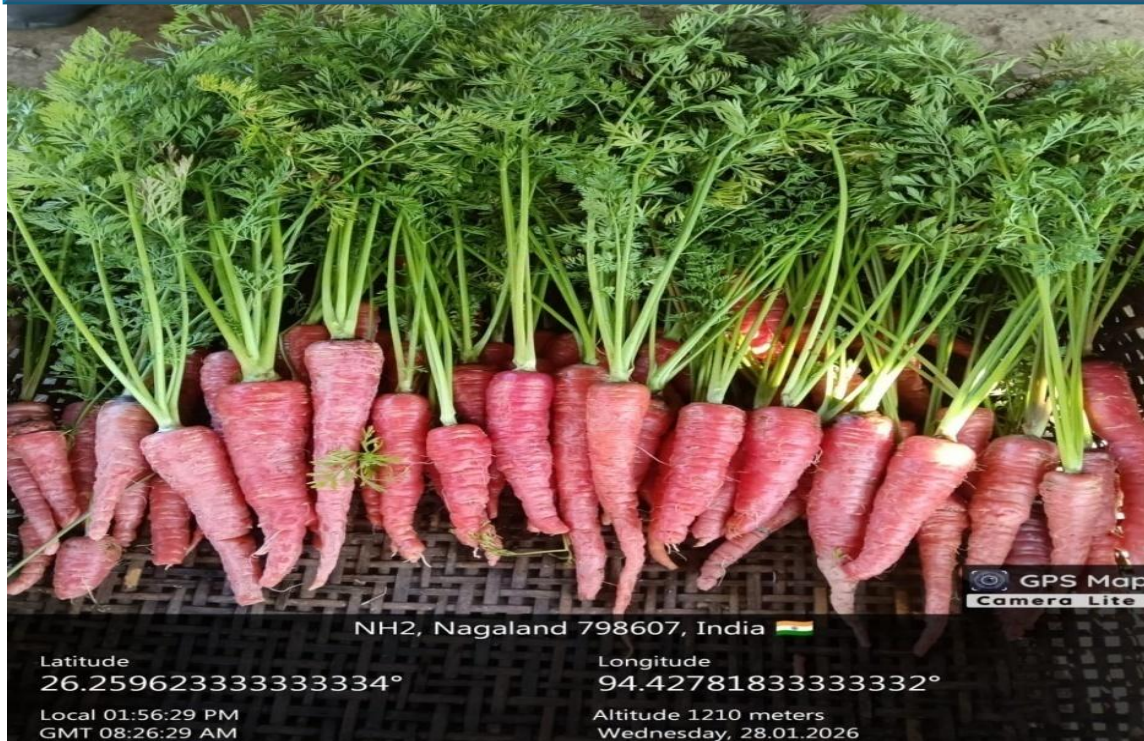
Problem with severity: Low yield of existing variety with 60%

Source of technology – IARI New Delhi, 2008

DETAILS OF TECHNOLOGY

Pusa Rudhira: Long red roots with self colored core ,
Triangular shape. Potential yield : 30t/ha

No. of Trials: 6(Longkhum,Aliba and Asangma)



Technology	Parameters		Yield	Net return	B:C ratio
Pusa Rudhira	1. Plant height (cm)	27.6	99.25	441250	1:9
	2. Root length (cm)	19.1			
	3. Av. root wt.(g)	95			
Farmer practice	1. Plant height (cm)	23	81.5	204500	1:6.1
	2. Root length (cm)	15			
	3. Av. root wt.(g)	60			

OFT-3 (Horticulture): Performance of Gerbera varieties under low cost polyhouse

Problem with severity: Non availability of improved variety

Source of technology : Central Institute of Horticulture, 2019

Details of technology

Varieties : Forbes (red), Ritmo (Yellow), Capella (Orange)

To be planted on raised beds in two rows at a spacing of 25X40 cm under low cost poly house during Aug- Sept.

No. of Trials: 2 (Alichen and KVK farm)



Technology	Parameters	Forbes (Red)	Ritmo (Yellow)	Capella (Orange)	Yield (100 sq.m)	Net Returns	B:C ratio
Gerbera	Plant height (cm)	43.6	42.8	43.2	1. Forbes (Red) 1760	11400	1.76
	Nos. of leaves	16.6	15.2	15.8			
	No. of days taken for bud emergence after planting	71	64	67	2. Ritmo (Yellow) 1430	6450	1.43
	No of flower/plants	16.2	13.5	15.2	3. Capella (Orange) 1650	9750	1.65
	Length of flower stalk(cm)	47.2	43.2	42.6			

FLD-1 (Horticulture): Popularization of Chilli variety Arka Khyati

Source of technology – IIHR, Bangalore, 2016

No. of demonstration : 10

Details of technology

Arka Khyati:

High yielding hybrid variety, light green turns deep red on maturity, medium pungent, wrinkled after drying, tolerant to cucumber mosaic virus



Tsungiki, Nagaland 798601, India

Latitude
26.279749999999996°

Longitude
94.43650333333332°

No. of Demonstration: 10

Area: 1ha

Location: Tuli, Asangma and Longkhum



Kohima-Mokokchung Rd, Nagaland

Latitude
26.25949166666667°

Longitude
94.427570°

Local 01:09:18 PM
GMT 07:39:18 AM

Altitude 1210 m
Wednesday, 02.07.2025

**Demonstration
yield (qt/ha)**

**Yield of
local check
(qt/ha)**

**% increase/
change in av.
Yield over local**

**Gross Cost
(qt/ha)**

**Gross Return
(qt/ha)**

**Net Return
(Rs/ha)**

**B:C
Ratio**

H L A

155 110 132.5

97.5

35.8

55000

153000

98000

2.78

FLD-2 (Horticulture): Popularization of Garden pea, variety: KSP 110

Source of technology : UBKV, Cooch Bihar 2018
No. of demonstration : 10

Details of technology

Variety : KSP 110
Dark green pod, medium tall with well-spread lateral branches. Pod length 8-10 cm with 10 grains



Sabangya Longkhum Road, Nagaland 798607, India

No. of Demonstration: 10
Area: 1ha
Location: Aliba, Longkhum and Tuli



Wokha, Nagaland 797111, India

Latitude 26.359963333333333° Longitude 94.38826833333333°
Local 12:07:45 PM Altitude 410 meters
GMT 06:37:45 AM Saturday, 06.12.2025

Demonstration yield (qt/ha)			Yield of local check (qt/ha)	% increase/ change in av. Yield over local	Gross Cost (qt/ha)	Gross Return (qt/ha)	Net Return (Rs/ha)	B:C Ratio
H	L	A						
80	53	66.5	46.5	43	48000	167000	119000	3.4

Annual Progress Report 2025

on

Soil Science

Presented by:

Imtilemla
ACTO Soil Conservation

KRISHI VIGYAN KENDRA

Mokokchung; Nagaland
Department of Agriculture, Govt. of Nagaland
(Estd: 2006)



Common OFT:1 (Soil Sc.): Assessment of Integrated Nutrient Management in Chilli var. Arka Khyati (1st year)

Details of technology

Problem diagnosed: No nutrient management

Source of technology – AAU Jorhat, 2015

TO: Biofertilizer (Azotobacter + PSB) @ 2kg + vermicompost 1 t/ha incubated for 15 days and N: P: K @ 60: 30: 30 kg/ha mixture applied as circular band placement at 10 and 30 days after planting (DAP)

TO₁: FYM @ 1kg/ pit

Farmers practice

Result	T O		T O ₁		Farmers practice	
Plant height (cm)	62		45		35	
Fruit length (cm)	12		10.5		7.2	
Avg. yield (qt/ha)	179.3		156.8		79.2	
B: C ratio	3.19		2.136		1.98	
Soil nutrient status	BS	AH	BS	AH	BS	AH
pH	4.52	4.35	4.86	4.73	4.58	4.42
Available N (kg/ha)	328.4	149.2	123.5	88.42	152.1	42.90
Available P (kg/ha)	15.19	17.87	19.66	7.150	23.23	14.30
Available K (kg/ha)	115.6	66.87	59.90	25.07	80.80	50.15

Locations: Satsu, Longpa, Mopungchuket, Yimchalu



OFT:2 (Soil Sc.):Assessment of lime application and INM for improving productivity in Soyabean (1st year)

Problem diagnosed: Acidity induced soil infertility and low productivity

Details of technology

Source of Technology- Soil Science Section, (Div. of NRM), ICAR RC NEHR, Umiam

No. of Trial: 5 (Longkhum, Longpa, KVK farm, Liroyim Mangkolong)

To: Furrow application of lime @ 2-4 qt/ha with 50% RDF+ Rhizobium @ 20g kg⁻¹ seed + Phosphate solubilising bacteria (PSB) @ 20 g kg⁻¹ Seed

To1: Furrow application of lime @ 2-4 qt/ha+ Rhizobium @ 20g kg⁻¹ seed + Phosphate solubilising bacteria (PSB) @ 20 g kg⁻¹ Seed

Farmers practice



Result	T o		T o1		Farmers practice	
Avg. plant ht. (cm)	53		38		33.3	
Pods/plant	48.84		11.61		7.675	
Avg. yield (qt/ha)	35.23		22.0		15.27	
B: C ratio	3.24		2.08		1.59	
Soil nutrient status	BS	AH	BS	AH	BS	AH
pH	4.24	4.58	4.31	4.86	4.31	4.26
Available N (kg/ha)	328.4	152.1	328.4	180.6	295	166.4
Available P (kg/ha)	37.75	42.90	260	197.5	83.11	20.19
Available K (kg/ha)	66.87	16.71	195	29.25	82.13	8.359

OFT:3 (Soil Sc.): Assessment of Micronutrient management package in Tomato (2nd year)

Problem diagnosed: No nutrient management

Source of Technology- ICAR Research complex for NEH region 2024

No. of Trial: 3 (Longjang, Satsu, Mangkolong)

Details of technology

TO: FYM 20 t/ha + NPK recommended dose for the state (100:50:50) + soil application of ZS @ 5 kg/ha, BX @ 5 kg/ha and AM @ 5kg/ha+ foliar spray (30 DAT onwards) of ZS @ 0.25%, BX @ 0.25% and AM @ 0.10 % (3 times at 15-20 days interval)

Farmers practice

Result	T O		Farmers practice	
Avg.yield (qt/ha)	120		82.8	
B: C ratio	3		2.36	
Soil nutrient status	BS	AH	BS	AH
pH	4.64	4.22	4.81	4.4
Available N (kg/ha)	337.9	299.8	357	341.1
Available P (kg/ha)	90.26	60.77	116.1	25.02
Available K (kg/ha)	82.55	14.18	74.81	10.31



FLD:1 (Soil Science): Popularization of Bio enriched compost

Details of Technology

Amending normal compost with 1% P (Rock Phosphate) with Azospirillum/ Azotobacter and Phosphate Solubilizing Bacteria (PSB) inoculation and curing for about 20-25 days in shade. For 100 kg compost, 1 kg N-fixer, 1 kg PSB and 17 kg Rock Phosphate

No. Of Demo: 2

No. of farmers: 44

Location: Chuchuyimlang & Khensa

Source of technology – Assam Agricultural university, Jorhart



Details	Gross cost	Gross return	Net Return	B:C Ratio	Remarks
Demo	1875	5000	3125	2.6	The demonstration was done in collaboration with NSRLM women SHGs in 2 blocks. The product was tested on tomato crop in kitchen garden. Application of bio enriched compost yielded avg. of 1.6 kg/plant compared to 1.3 kg/plant in check
Check	1000	2000	1000	2.0	



FLD:2 (Soil Science): Organic management practices in off season cucumber

No. Of Demo: 3
Area: 1 ha
Location: Aliba

Details of technology

2-3 kg FYM or 1 kg FYM + 0.5 kg vermicompost + 50 gm lime per pit

Source of technology – ICAR complex for NEHR, 2019



Yield of Demo plot (q/ha)	Yield of local check (q/ha)	% increase/ change in avg. yield over local	Net Return	B:C Ratio
110	85	22.73	226000	2.52 (Demo)
			176000	2.07 (Check)

Annual Progress Report 2025

on

Plant Protection

Presented by:

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OFT-1: Integrated management of late blight disease of potato (1st Year)

Common OFT

Problem with severity: High incidence of late blight leading to poor yield (upto 70%)

Source of Technology: ICAR- CPRIS, Meerut, 2017
No. of trials -3 (Longkhum & Yisemyong)

Details of Technology

TO : Seed treatment with *Trichoderma viride*. Planting to be done during first fortnight of November. 3 sprays of *Trichoderma viride* (0.7%) + *Bacillus subtilis* (0.25%) before and after appearance of the disease.

Farmers practice : use of wood ash



Treatment	Yield qt/ha	Gross income (Rs./ha)	B . C ratio	% disease incidence
TO	180.25	270375	2.4	24.33
Farmers practice	109.75	164125	1.7	55.80



OFT-2: Assessment of Blast Management in Rice

Problem with severity: High incidence of blast in upland paddy upto 70-80 % both in all the stages

Source of Technology: ICAR- CPRIS, Meerut, 2017
No. of trials -3 (Longmisa & Yisemyong)

TO : Field sanitation, Seed treatment with *Pseudomonas fluorescens* *Trichoderma viride* @ 10 gm/kg of seed & application of Copper oxychloride 0.25% immediately after the onset of disease and should be continued at 7-10 days interval until the disease becomes less severe
Farmers' practice – dusting wood ash over dew wet leaves

Treatment	Yield qt/ha	Gross income	% Disease incidence	B.C ratio
To	16.2	82500	13.3	1.4
Farmers practice	9.4	52300	39.6	1



FLD -1: Demonstration on Biological Management of Fall Armyworm in Maize (Common FLD)

Technology details :

TO-*Metarhizium anisoplia* talc formulation @5g/ litre
whorl application at 15-25 days after sowing + Spraying of *Beauveria bassiana* & *Bacillus thuringiensis* @ 2g/l of water.

Farmers practice: whorl application with water

❖ No. of demonstration :8

❖ Area : 2ha

❖ Location: Longmisa, Yisemyong

❖ Source of technology: ICAR, Barapani , 2019



Treatme nt	Yield qt/ha	% increas e/ change in avg. yield over local check	Gross income (Rs./ha)	B.C ratio	% infestatio n
TO	20.8	39.9%	1,24,800	1.6:1	30
Farmers practice	12.5		75,000	1.1:1	60

FLD -2: Demonstration on Management of Rhizome Rot Disease in Ginger

Technology details:

- **TO-** Rhizome treatment with *Trichoderma harzanium* @ 50gm /kg of rhizome+ soil application of 2.5kg *T. harzanium* mixed with 50kg of FYM 10-15days before sowing + foliar application of *Pseudomonas fluorescence* @ 5gm/l of water for every 15 days interval
- **Farmers practice:** Incorporation of woodash
- ❖ **No. of demonstration :**8
- ❖ **Area :** 2ha
- ❖ **Location:** Longmisa, Yisemyong
- ❖ **Source of technology:** ICAR Research Complex for NEH Region, Sikkim Centre , 2016

Treatme nt	Yield t/ha	% increase over local check	Gross income	Disease incidence (%)	B.C ratio
TO	12.2	31.14%	6,25,000	19.74	2.8
Farmers practice	8.4		4,20,000	52.33	2.2



Annual Progress Report 2025

on

Animal Science

Presented by:

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Department of Agriculture, Govt. of Nagaland
(Estd: 2006)



OFT-1: Assessment of Tokbari chicken (1st yr)

Problem Diagnosed: Low productivity of local birds

Details of Technology
TO1: Tokbari bird. TO2: Rainbow Rooster. Brooding up to 1 month with starter feeds, supplemental feeding with vitamins and minerals

Source of technology: ICAR for NEH Region, Tripura
Year: 2024

Parameters	TO1 (Tokbari)	TO2 (Rainbow Rooster)
4 th week	242.35	301.76
8 th week	470.58	526.15
12 th week	687.42	816.32
16 th week	980.14	1165.18
20 th week	1409.46	1726.49
Age at 1 st egg (days)	162	188
Mortality (%)	3	5
Gross Cost (Rs)	5204	5822
Gross Return (Rs)	10508	12521
Net return (Rs)	5304	6699
B:C ratio	2.01	2.15



FLD-1: Popularization of Azolla feeding in crossbred cows (1st yr)

Problem Diagnosed: High cost of concentrate feeds and less availability of quality fodder

Details of technology:

Demo: Cultivation of Azolla (*Azolla carolinia*) and feeding to lactating cows @ 20% along with Concentrates and fodder grass.

Check: Concentrates + fodder grass.

Source: ICAR-National Institute of Biotic Stress Management, Baronda, Raipur, 2019

No. of Demonstration: 5 **No. of animals:** 10

Performance indicators	Data on technology demonstrated		% change in parameters
	Demo	Check	
Avg. milk yield (L/day)	8.8	8	10%
Azolla harvested in kg/day/annum in 9x3x1 Sq. ft area	0.631 kg/day 230.3kg/yr	-	-
Net return	83040	68000	22.12%
BCR	2.59	2.31	12.12%



FLD-2: Promotion of Cobb 430Y broiler chicken (1st year)

Problem Diagnosed: Low productivity of meat from Kuroiler and local chicken

Details of technology:

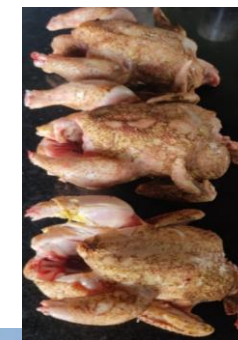
Demo: Cobb 430Y broiler chicken

Check: Kuroiler birds

Source: Venco Research & Breeding Farm Private Limited, Pune. 2014

No. of demonstration: 10, **No. of birds:** 20/farmer

Performance Parameters/ indicators	Data on parameters in relation to technology demonstrated		% change in parameters
	Demo	Check	
Average weight of chicken at 6 th weeks in kg's/bird	2.4	1.66	44%
Mortality %	2	2.5	20%
FCR	1.55	1.93	19%
Dressing %	72	66	36%
BCR	2.37	2.05	15.5%



FLD-3: Popularization of AAUVETMIN on performance of growing pigs (1st yr)

Problem Diagnosed: Poor growth due to lack of proper nutrition.

Details of technology:

Demo: AAUVETMIN @ 20g/day/pig + deworming at weaning

Check: No supplements provided

Source: C.V.Sc, AAU, Khanapara, 2015

No. of Demonstration: 5 **No. of animals:** 10

Performance Parameters/ indicators	Data on parameters in relation to technology demonstrated				% change in parameters
	Demo		Check		
	Month	kg	Month	kg	
Monthly weight gain (kg)	3 rd	17.25	3 rd	14.5	18.9%
	4 th	26.2	4 th	21.4	23.8%
	5 th	39.1	5 th	32.4	21.8%
	6 th	55.5	6 th	47.6	18.08%
Mortality (%)	Nil		Nil		Nil
BCR	1.93		1.4		37.8%



