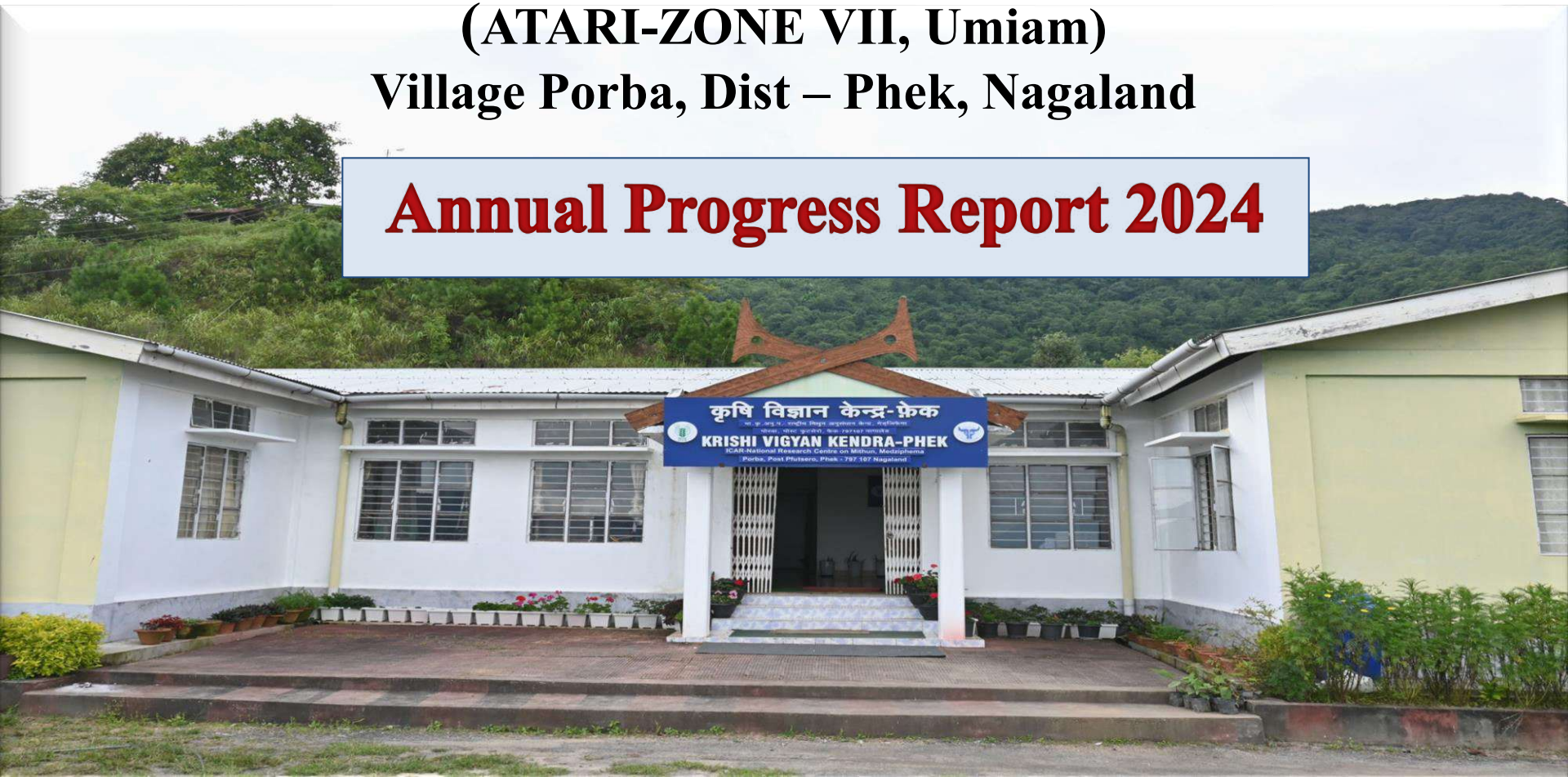
KRISHI VIGYAN KENDRA PHEK
ICAR-NRC on Mithun, Medziphema

(ATARI-ZONE VII, Umiam)

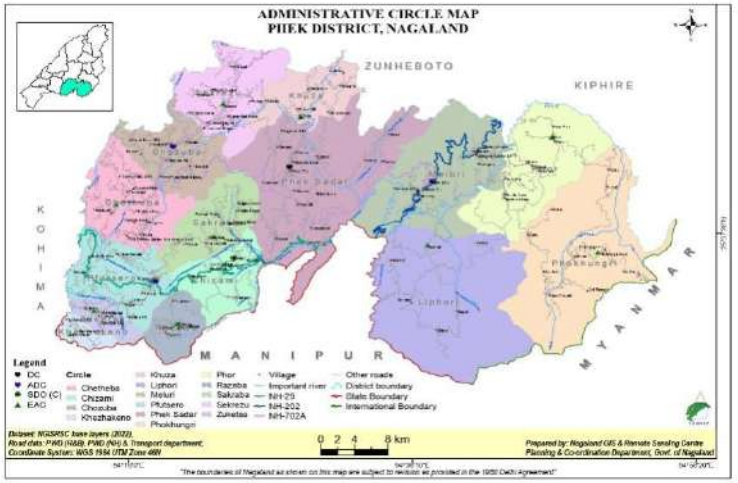
Village Porba, Dist – Phek, Nagaland

Annual Progress Report 2024



DISTRICT PROFILE

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
99	30	95	95.95 %



Lat: 25’.70” N
Long: 94’.46” E
Altitude:1885 m

KVK Phek is situated at a distance of 56.8 Km from district HQ.

Particulars	Details
Total Geographical Area	2026 sq km
Total Population	1,63,418
Male	83743
Female	79675
Sex ratio (F per 1000 M)	951
Density per sq km.	81
Literacy (%)	78.05
Blocks	8
Major Tribe	Chakhesang and Pochury

LAND USE PATTERN

Particulars	Figures
Total cropped area	27,500 ha
Net sown area	25,521 ha
Net irrigated area	12,700 ha.
Cropping intensity	101.27 %
Forest Area	1,593.69 sq.km
Current Fallow	475 ha
Agro-climatic zone	Sub tropical hill zone (1000 - 1500m MSL), Sub alpine temperate zone (1500 - 2200m MSL) Mild tropical hill zone (200 - 800m MSL)
Soil	Acidic
Rainfall (mm)	1338.6
Temperature (^{0}C)	2-33
Humidity (%)	70-80
Major crops	Rice, maize, beans, cabbage.
Small & Marginal Farmers (Land < 1 ha)	96%

Source: Resource inventory of district Phek, Nagaland, 2009, Statistical handbook of Nagaland, 2022 & Phek.nic.in, 2023

MAJOR AGRICULTURAL AND HORTICULTURAL CROPS

Crop	Area (ha)	Production (MT)	Productivity (Qtl /ha)
CEREALS			
WTRC Paddy	15382	47970	31.19
Maize	5711	11439	20.03
Jhum Paddy	2173	4292	19.75
Small millets	964	1104	11.45
PULSES			
Pea	483	522	10.81
Beans	437	567	12.97
Rajma Kholar	351	375	10.68
Arhar	29	28	9.66
OILSEED			
Mustard	1515	1601	10.57
Soya bean	724	887	12.25
Perilla	225	137	6.09
Groundnut	174	183	10.52
FRUITS			
Banana	640	9510	148.59
Pineapple	480	9300	193.75
Passion fruits	685	1728	25.23
Kiwi	113	400	35.40

Source: *Statistical handbook of Nagaland, 2023*

Conti….

Crop	Area (ha)	Production (MT)	Productivity (Qtl /ha)
VEGETABLES			
Cabbage	1300	27000	207.69
Potato	755	7912	104.79
Tapioca	638	9682	151.76
Green Chilly	520	3585	68.94
Colocassia	235	2820	120.00
Tomato	185	853	46.11
Sweet potato	125	1420	113.60
Pumpkin	80	1715	214.38
Cauliflower	50	250	50.00
Carrot	40	617	154.25
Brinjal	33	245	74.24
SPICES			
Large cardamom	625	248	3.97
Ginger	382	2315	60.60
Turmeric	15	173	115.33

Source: *Statistical handbook of Nagaland, 2023*

LIVESTOCK POPULATION

Category		Population (nos.)
Mithun		1835
CATTLE	*Crossbred*	789
	Indigenous	1975
Buffalo		1333
Goat		2791
PIGS	*Crossbred*	19727
	Indigenous	13058
Rabbits		15686
Poultry		**296496**
Ducks		9159
Source: Statistical handbook of Nagaland, 2023		

ACTION TAKEN REPORT

Recommendation	Action Taken
Measurement of temperature in zero energy cold storage with the help of temperature Probe	Conducted
To do statistical analysis od OFT and FLD data.	Analyzed
To document of gains due to use of improved varieties under OFT and FLD	Documented
To prepare annual calendar of activities	Prepared
To do studies on green manuring	Started
To do soil testing of OFT and FLD (Initial and after harvest)	Analyzed
To provide agricultural lime to farmers	Procured and will be conducting FLD programme
To conduct programmes under MOVCD	Conducted

ACTION TAKEN REPORT

Recommendation	Action Taken
To do comparison of vermicompost using Mithun dung and cattle dung	Experiment conducted and submitted for analysis
To publish research papers	Published and already submitted
To include SAC members in Agro-advisory WhatsApp group	Included
To cover all blocks and villages of Phek district	Conducting
To document and registration of farmer's varieties	Documented and collecting farmer's varieties
To do activities under livestock	Taken up-Animal health camps
To popularize Nutri-gardens	Popularizing under NARI programme

Present Staff Position

SL. NO	NAME	DESIGNATION	DISCIPLINE
1	Dr Sanjeev Kumar Singh	Senior Scientist & Head	Genetics & Plant Breeding
2	Dr. T Esther Longkumer	Chief Technical Officer	Soil Science
3	Dr. Hannah K. Asangla	Chief Technical Officer	Agronomy
4	Dr. Venkatesh	Subject Matter Specialist	Agriculture Engineering
5	Dr. Sharanappa C H	Subject Matter Specialist	Plant Protection
6	Mr. Manjunath K S	Subject Matter Specialist	Horticulture
7	Dr. Harini K R	Subject Matter Specialist	Animal Science
8	Prog. Asstt. Home Science	Vacant	
9	Er. Nukusa T. Vadeo	Programme Assistant (Computer)	Computer Engg.
10	Mr. Keniseto Chucha	Farm Manager	Horticulture
11	Mr. K.M. Chusi	Assistant	Commerce
12	Personal Assistant	Vacant	-
13	Mr. Bodan Ch.Kachari	Sr. Tech. Asstt. (Driver)	-
14	Driver	Vacant	-
15	Mr. Vevo V.Hesuh	SSS	-
16	Mr. Shetsonyi R. Puro	SSS	-
Total Staff at Present – 13			

INFRASTRUCTURE FACILITIES

Sl. No.	Infrastructure facility	Present Status			Remarks (including quantity and quality at present)
		Existing/ Completed	On-going	New proposal	
1.	Administrative building	Existing	-	-	Needs renovations
2.	Staff Quarters	Existing-4	-	-	Needs renovations
3.	Farmers' hostel	-	-	√	Nil
4.	Demonstration Units	Existing-3 Nos	-	-	Needs renovations
5.	Fencing/ boundary wall	-	-	√	Nil
6.	Vehicle	Running	Condemned	NA	-
a.	Four-Wheeler	√	-	-	1 Bolero (08 years old, Not in good condition)
b.	Tractor	√	-	-	1 No. - Good
c.	Power Tiller	-	-	-	1 No.-Not working

On Farm Testing (OFT)

Discipline	Crop	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Agronomy	Soybean	1	-	3	3	100%	-
	Lentil	1	-	3	3	100%	-
Soil Science	Turmeric	1	-	3	3	100%	-
	Broccoli	1	-	3	3	100 %	-
	Millet	1	-	3	3	100 %	
Total		**5**		**15**	**15**	100 %	-

OFT on Performance of Soybean variety MACS 1460

Crop	Soybean
Problem Diagnosed	Low productivity of local cultivars
Technology details	T1: MACS 1460 T2: JS 335 (Control) Seed rate: 60 kg /ha, Spacing: 40 cm x 10 cm
No. of Trials	3
Source of technology	Agharkar Research Institute, Pune
Results	**T1: Recommended for FLD**

Parameters	Technology		SEm±	CD at 5%	S/NS
	T1	T2			
Plant ht. (cm)	79.01	74.65	0.33	1.99	S
No. of Pods/plant	34.53	21.35	0.31	1.90	S
No. of Seeds/pod	2.33	2.29	0.02	0.15	NS
Test wt. (g)	14.52	12.30	0.11	0.69	S
Grain yield (Q/ha)	**12.27**	7.16	0.64	2.75	S
Net return (Rs/ha)	51,960	15,880	-	-	
B:C Ratio	**2.12**	1.38	-	-	

OFT on Performance of Lentil Varieties

Crop	Lentil
Problem Diagnosed	New introduction as pulse crop
Technology details	T1: IPL 225 T2: IPL 329 Seed rate: 80 kg / ha, Spacing: 30 cm x 10 cm
No. of Trials	3
Source of Technology	ICAR-IIPR, Kanpur, 2020
Results	**T2: Recommended for FLD**

Parameters	Technology		SEm ±	CD at 5%	S/NS
	T1	T2			
Plant ht. (Cm)	55.82	62.08	0.55	3.34	**S**
No of Pods/plant	30.27	35.09	0.38	2.32	**S**
No. of Seeds/pod	1.31	1.42	0.02	0.11	NS
Test weight (g)	22.78	21.37	0.02	0.11	-
Green pod yield (Q/ha)	9.79	**10.78**	0.05	0.30	**S**
Net return (Rs/ha)	55,900	65,800	-	-	**S**
B:C Ratio	2.33	**2.56**	-	-	

OFT on Performance of Turmeric under Organic Nutrient Management

Crop	Turmeric
Problem Diagnosed	Low productivity due to poor soil fertility management
Technology details	T1: *Trichoderma harzanium* @10g/ kg of seed + FYM @ 5 t/ha + Neem cake @400 kg/ha+ vermicompost @ 5 t/ha + Azospirillum 10kg/ha. T2: 50 % Recommended Dosage of T1, T3: Farmer's practice
No. of Trials	3
Source of Technology Result	ICAR-RC for NEH Region, Sikkim Centre/2013 **T1: Recommended for FLD**

PARAMETERS	TECHNOLOGY			SEm±	CD at 5%
Growth & Yield Parameters	**T1**	**T2**	**T3**		
Plant ht. (cm)	65.68	62.76	53.70	0.22	0.87
Weight of rhizhome (g)	489.45	472.95	449.73	0.58	2.27
Yield (Q/ha)	**276.60**	207.89	161.63	4.17	16.36
Net return (Rs/ha)	422576	308212	231051	-	-
B:C Ratio	**2.57**	2.46	2.34	-	-
Soil Parameters	Initial / After	After	After	-	-
Soil- pH	5.16 / 5.74	5.68	5.40	0.02	0.07
Average N (kg/ha)	247.6 / 291.37	288.25	269.67	0.99	3.88
Average P(kg/ha)	12.45 / 28.65	27.79	26.00	0.05	0.22
Average K(kg/ha)	135.2 / 167.85	165.09	160.68	0.65	2.56

OFT on Assessment of Natural Farming Practices in Foxtail Millet cultivation under acid soil condition (Common OFT NRM-Nagaland)

Crop	**Foxtail Millet**
Problem Diagnosed	Acidity induced soil infertility and low productivity.
Technology details	**T1 :** Biofertilizers@3.5 litre/ha+ Jeevamruta @ 5 litre/ha **T2 :** Farmers' Practice , Var. –Local(Chukhulu), Seed rate –8 kg/ha, Spacing
No. of Trials	3
Source of Technology	College of Agriculture, CAU-Imphal, Kyrdemkulai, Meghalaya Biofertilizer-CAU Jhum Bio- enhancer 2016 and Jeevamruta (Vedic culture)
Result	**T1: Recommended for FLD**

Parameters	Technology			SEm±	CD at 5%
Growth & Yield Parameters	**T1**		**T2**		
Plant ht. (cm)	126.53		122.95	0.26	1.60
Panicle Length (cm)	12.85		11.33	0.22	1.32
Yield (Q/ha)	**8.56**		5.58	0.03	0.20
Net return (Rs/ha)	33597		14693	-	-
B:C Ratio	**2.10**		**1.54**	-	-
Soil Parameters	**Initial**	**After**	**After**	-	-
Soil- pH	5.19	5.78	5.52	0.04	0.21
Average N (kg/ha)	247.4	285.55	270.77	1.36	8.27
Average P (kg/ha)	18.5	28.10	25.52	0.13	0.78
Average K (kg/ha)	137.2	167.33	141.43	0.90	5.47

OFT on Assessment of Questa-Grow Bio-Stimulant in Broccoli

Crop	Broccoli
Problem Diagnosed	Poor crop growth and low yield
Technology details	**T1 :** 7.5 L of Questa-Grow Bio-Stimulant/375 litre of water/ha **T2 :** Farmers' Practice Variety – Green magic, Seed rate – 500g/ha Spacing – 45 x 30 cm, MOS – November
No. of Trials	3
Source of Technology Result	ICAR-Central Institute of Fisheries Technology/2022 **Continuation in 2025**

Parameters	Technology		SEm±	CD (P value ≤ 0.05)
Growth & Yield Parameters	T1	T2		
Plant ht. (cm)	44.25	37.22	0.81	4.90
Plant spread(cm)	43.37	40.08	0.46	2.80
Yield (Q/ha)	**128.81**	86.50	0.29	1.78
Net return (Rs/ha)	270536	151939	-	-
B:C Ratio	**3.33**	2.41	-	-

TOMATO CULTIVATION UNDER PROTECTED CONDITION

DAYS TO HARVEST

Nursery sowing: 20 JUNE 2024

Transplanting: 30 JULY 2024

	H 412	PUSA TLCY HY-6	H-554	H-507	H-147	H-48
Days to 1st picking	90 days	106 days	105 days	105 days	106 days	105 days
Days to 2st picking	113 days	129 days	128 days	128 days	129 days	128 days
Days to 3st picking	124 days	140 days	139 days	139 days	140 days	116 days
Days to 4st picking	151 days	167 days	166 days	166 days	167 days	143 days
Days to 5st picking	180 days	196 days	195 days	195 days	196 days	172 days

H 412

PUSA TLCY HYBRID 6

H 554

H 507

H 147

H 48

FRONT LINE DEMONSTRATIONS

Discipline	Crops	Number of technology	No. of demonstrations		% of achievement	Reason for shortfall, if any
			Target	Achievement		
Agronomy	Paddy	1	4	4	100%	-
	Foxtail millet	1	6	6	100%	-
Soil Science	Low-cost vermicomposting	1	10	10	100 %	-
	Kiwi	1	5	5	100 %	
Total		**4**	**25**	**25**	**100 %**	-

FLD on Integrated Crop Management in Paddy Variety RCM 13

Technology demonstrated:

Seed rate :25kg/ha
Seedling age: 17 days
Spacing : 20 cm x 20 cm
No. of seedling/hill : 2
Weed management : Cono + HW twice at 10 days interval

Crop	Demonstration Yield (Q/Ha)			Yield of local Check	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
	Max	Min	Avg.	(q/ha)	%				
Paddy	38.61	37.55	**38.15**	24.16	57.90	60,750	1,52,600	91,850	**2.51**

FLD ON ICM IN PADDY VAR. RCM 13

Parameters	Technology		SEm±	CD at 5%	S /NS
	T1 (RCM 13)	T2 (CAU R1)			
Plant ht. (cm)	113.41	103.41	0.15	0.92	S
No of tillers/plant	28.73	14.31	0.70	4.27	S
Panicle length (cm)	21.88	16.73	0.04	0.25	S
Test wt. (gm)	26.16	19.94	0.05	0.33	S
Grain yield (Q/ha)	**38.44**	**24.09**	1.34	8.16	S
Net return (Rs/ha)	91,850	36,640	-	-	-
B:C Ratio	2.51	1.61	-	-	-

FLD ON POPULARIZATION OF FOXTAIL MILLET VAR., SiA 3085

Technology demonstrated: Seed rate: 80 kg/ha, Spacing:40 X 10 cm, MOS: April

Crop	Demonstration Yield (Q/Ha)			Yield of local Check	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
	Max.	Min.	Avg.	(q/ha)	%				
Foxtail millet	11.72	11.58	**11.66**	6.10	92.13	56000	99110	43110	**1.76**

Parameters	Technology		SEm ±	CD at 5%	S/NS
	T1 (SiA 3085)	T2 (Local)			
Plant ht. (Cm)	152.55	160.29	0.99	6.03	**S**
No of productive tillers	4.50	2.39	0.05	0.28	**S**
Panicle length (cm)	13.34	8.79	0.58	3.53	**S**
Grain yield (Q/ha)	11.63	5.99	0.06	0.37	**S**
Net return (Rs/ha)	43,110	4,350	-	-	-
B:C Ratio	1.76	1.09	-	-	-

FLD ON POPULARIZATION OF VERMICOMPOSTING USING LOW-COST VERMIBED

Enterprise	Species	No. Of farmers	No. of Units	Performance parameters	Data on parameters in relation to technology demonstrated		% increase in yielde
					Eisenia fetida	*Perionyx ceylanesis*	
Vermicompost Vermibed size: 6x4x2 ft **ICAR NEHR Umiam, 2012**	•*Eisenia fetida* •*Perionyx ceylanesis (Jai Gopal)*	10	10	Yield, Economics & nutrient content	Av.Yield: 425.67 kg NR-8348.00 B:C ratio-2.44	Av. Yield: 237.8 kg NR-3113.00 B:C ratio-1.53	79.0

Parameters	Technology		SEm ±	CD at 5%
	Eisenia fetida	*Perionyx ceylanesis*		
Yield (kg/unit)	425.67	237.8	10.08	61.33
Worms (kg/unit)	2.75	2.01	0.03	0.21
Net return (Rs/ha)	8230	3113	-	-
B:C Ratio	2.42	1.53	-	-

FLD ON POPULARIZATION OF PARTIAL PROTECTION OF KIWI FRUIT USING 50% SHADE NET

Crop	Technology demonstrated	Demonstration Yield (Q/Ha)			Yield of local Check	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio
		H	L	A	(q/ha)	%				
Kiwi	Use of 50% Agro shade net mounted on kiwi fruit vines during flowering. Variety: Hayward Spacing:4m x 5m . ICAR-RC for NEH Region, Sikkim Centre/2016	150.72	143.96	148.59	88.27	67.36	210000	1034250	82450	4.93

Parameters	Technology		SEm±	CD at 5%
	Shade net	Open Condition		
Flower/plant	407.87	225.67	3.33	20.24
Fruit/plant	166.40	145.73	2.01	12.21
Fruit weight (g)	88.80	60.57	1.14	6.97
Yield (Q/ha)	**147.76**	88.27	2.42	14.71

TRAINING PROGRAMMES

Discipline	No. of Training prog.			Participants(Nos)			Target Beneficiary (nos.)	% achievement
	T	A	% of A	On	Off	Total		
FARMERS								
Agronomy	14	15	107.14	146	210	356	350	101.71 %
Soil Sc	12	13	108.33	95	267	362	300	120.66 %
Plant Protection	-	05	-	35	200	235	-	-
Agril. Engg	-	11	-	-	297	297	-	-
Total	26	**44**	-	**276**	**974**	**1250**	**650**	-
RURAL YOUTH								
Agronomy	3	5	166.66	54	58	112	75	149.33 %
Soil Sc	3	6	200 %	45	74	119	75	158.66 %
Plant Protection	-	-	-	-	-	-	-	
Agril.Engg	-	1	-	25	-	25	-	
Total	**6**	**12**	-	**124**	**132**	**256**	**150**	

TRAINING PROGRAMMES

Discipline	No. of Training prog.			Participants(Nos)			Target Beneficiary (nos.)	% achievement
	Target	Achiv..	% of Achiv.	On	Off	Total		
Extension Personnel								
Agronomy	1	1	100 %	-	13	13	20	65 %
Soil Sc	1	1	100 %	-	13	13	20	65 %
Total	**2**	**2**	**-**		**26**	**26**	**40**	**-**

Vocational Training Programmes

Sl. No.	Target Group	No. of Training programme			Beneficiaries (No.)		
		T	A	% of A	T	A	% of A
1	Rural Youth	2	3	150 %	40	65	162.50 %
	Total	**2**	**3**	**150 %**	**40**	**65**	**162.50 %**

Film Show and Training on Post Harvest and its Importance at KVK- Phek

Value Added Product of KIWI and Agri Product at KVK- Phek

Drone Demonstration

Extension Activity	Programme/ Activity			Beneficiaries		
	Target (No.)	Achievement (No.)	% achievement	Target (No.)	Achievement (No.)	% achievement
Drone demonstration	-	11	-	-	363	-

Demonstration of Drone and its use, and maintenance for Rural Youth

Demonstration of Drone at Porba Village

Demonstration of Drone at Gidemi Village

Demonstration of Drone at Polami Village

Demonstration of Drone at Middle Komi Village

EXTENSION ACTIVITIES

Extension Activity	Programme/ Activity			Beneficiaries		
	Target (No.)	Achievement (No.)	Achievement	Target (No.)	Achievement (No.)	Achievement
A. Field trips and Visits						
Diagnostic visits	48	64	133.33 %	100	189	1189 %
Scientists visit to farmer's field	48	61	127.08 %	100	197	197 %
Field day	9	10	111.11 %	80	86	107.5 %
Farmers visit to KVK	12	32	266.66 %	52	89	171.15 %
B. Group activities						
Method Demonstrations	11	31	281.81 %	130	425	326.92 %
Film show	2	4	200 %	55	70	127.27 %
C. Mass outreach program						
Exhibition	4	7	175 %	110	787	715.45 %
Celebration of important days	9	20	222.22 %	220	1384	629.09 %
Kisan Mela	3	3	100 %	80	237	296.25 %
Farmers Scientist Interaction	2	11	550 %	90	1029	1143.33 %

EXTENSION ACTIVITIES

Extension Activity	Programme/ Activity			Beneficiaries		
	Target (No.)	Achievement (No.)	% achievement	Target (No.)	Achievement (No.)	% achievement
D. Camps and campaigns						
Soil health Campaigns	4	4	100 %	80	85	106.25 %
World Soil Day	1	1	100 %	60	91	151.66 %
E. Publications						
News paper article	4	11	125 %		-	-
Extension literature/Research paper/Book chapter/ oral paper/abstract/newsletter	8	23	287.5 %			
F. Other extension activities						
Lecture delivered as resource person	-	25	-	-	1428	-
Mera Gaon Mera Gaurav	4	4	100 %	80	95	
G.HRD						
•Biodiversity conservation and farmer's right's •Two days integrated farming system for livelihood security of farmers of Nagaland	1	2	200 %	80	170	212.5 %
Webcasting	-	5	-	-	131	-
Total	**170**	**318**	**187.06 %**	**1317**	**6493**	**-**

Glimpses of Extension Activities

Field day on organic turmeric cultivation

Students field visit to KVK farm

Farmers-scientist interaction

Soil health Camp

Exhibition of agri & allied sector

PM Kisan webcasting programme

Glimpses of Extension Activities

Awareness programme on PM KUSUM component- A, sponsored by ASCI New Delhi

Plant genetic and biodiversity fair sponsored by NPBGR,New Delhi at Chepoketa village

Plant genetic and biodiversity fair sponsored by NPBGR New Delhi at ICAR-KVK Phek, Porba

Exhibition during Plant genetic and biodiversity fair sponsored by NPBGR New Delhi at ICAR-KVK Phek Porba

Krishi Choupal

Farmers-scientist interaction

BIO-PRODUCT

Item	Quantity (kg)/ Nos	Value (Rs.)
Vermicompost	86 kg	2580.00
Vermiworms	2000 nos	2000.00

SOIL TESTING/ SOIL HEALTH CARDS (SHCs)

Sl. No.	Samples tested/ analysed	Sample (No.)	Farmer beneficiaries	Village covered	SHCs issued to farmers (No.)
1.	Soil sample	500	500	5	500
	Total	500	500	5	500

Soil Health card Distribution

STATUS OF MOBILE ADVISORY

MESSAGE TYPE SENT		TEXT ONLY	VOICE ONLY	TOTAL
CROP	No. of message	50	20	**70**
	No. of Beneficiary	500	20	**520**
LIVESTOCK	No. of message	1	0	**1**
	No. of Beneficiary	10	0	**10**
WEATHER	No. of message	5	0	**5**
	No. of Beneficiary	50	0	**50**
MARKETING	No. of message	1	15	**16**
	No. of Beneficiary	10	15	**25**
AWARENESS	No. of message	5	23	**28**
	No. of Beneficiary	50	23	**73**
OTHER ENTERPRISE	No. of message	4	15	**19**
	No. of Beneficiary	40	15	**55**
TOTAL	**No. of message**	**66**	**73**	**139**
	No. of Beneficiary	**660**	**73**	**733**

SEED AND PLANTING MATERIALS

Item	Crop	Variety	Target (Q/No.)	Quantity produced (Q/No.)	% achievement	Provided to no. of farmers
Seed materials 1**. Cereal**	Paddy	RCM13	3	3	100 %	50
	Foxtail millet	SiA 3085	2	3	150 %	50
	Foxtail millet	Local cultivar	2	3	150 %	10
2. Spices	Turmeric	Megha Turmeric-1	2	3	150 %	10
		Total	**10 Q**	**12**	**-**	**170**
Planting materials	Broccoli	Green Magic	5000	10000	200 %	20
		Total	**5000 Nos.**	**10000 Nos.**	**-**	**190**

STATUS OF REVOLVING FUND (RF)

Activities	Opening balance as on 1st April, 2023 (Rs)	Income during the year (Rs)	Expenditure during the year	Net balance in KVK till date (Rs)
Vermicompost, vermiworms. Garden pea, tomato.	3,25,457.00	6930.00	255106.00 (Refund to council as per the office order)	77,281.00
Total	**3,25,457.00**	**6,930.00**	**2,55,106.00**	**77,281.00**

NATURAL FARMING IN KVK FARM

- Total farm area (acre): 4 acre
- Area of KVK farm earmarked/ covered under Natural Farming (Acre): 1 acre

Activities under Natural Farming

No. of demonstrations conducted	Beneficiaries			No. Trainings	Beneficiaries			No. of Kisan Gosthi	Beneficiaries		
	M	F	T		M	F	T		M	F	T
1	44	76	120	7	133	255	388	1	141	62	203



Training on Soil conservation and Natural farming at KVK- Phek , Sakraba and Pfutseromi village

Training on introduction to pests and their occurance at Pfutseromi Village

Training on pests management in natural farming at Kutsomi

SPECIAL PROGRAMMES

Sl. No	Name of program	Duration and Date	No. of participants			Chief Guest/ Special Dignitary
			M	F	Total	
1	Krishi Swarna Samriddhi Week	5 days/02-12-24 to 06-12-24	242	91	333	Dr Sujay Rakshit, Director, ICAR-NIAB Ranch; Dr M. K. Verma, Director, ICAR-CITH, Srinagar
2	Mera Gaon Mera Gaurav	1day/15.3.24, 9.12.24	23	22	45	-
3	Natural Farming	1day/ 23.2.24 & 26.2.24	185	138	323	Ms. Nezelu , Executive Director, CWWS, Pfutsero
4	NARI	1day/15.2.24	10	61	71	-
5	KSHAMTA	1day/14.3.24	32	68	100	-
6	**Celebration of Important Days**					
	Republic Day	1 day/26.1.24	40	40	80	-
	International Women's Day	1 day/8.3.24	18	85	103	Major Sachit, AR Pfutsero
	World Environment Day	1 day/5.6.24	81	69	150	.
	International Yoga day	1 day, 21.6.24	16	9	25	-
	18th foundation day of KVK & Kisan Gosthi	1 day/04.05.24	71	29	100	Dr Raghavendra Bhatta, DDG (Animal Science) & Dr G K Gaur, ADG (A. P. & B), ICAR, New Delhi
	Independence Day	1 day/15.8.24	52	49	101	-
	Hindi Week	5 days 14-20 Sep 2024	26	24	50	
	Vigilance awareness week and National unity day	1 day/28-10-24, 03-11-24	18	7	25	-
	World Soil Day	1 day/ 5.12.24	76	15	91	Mrs. Mhalo Humtsoe, ADC Pfutsero.

SPECIAL PROGRAMMES

Sl. No	Name of program	Duration and Date	No. of participants			Chief Guest/ Special Dignitary
			M	F	Total	
7	Swachh Bharat Abhiyan	1 day/23-07-24, 14-09-24, 16-09-24, 17-09-24, 18-09-24, 19-09-24, 20-09-24, 21-09-24, 22-09-24, 23-09-24, 24-09-24,25-09-24, 26-09-24, 27-09-24,28-09-24,29-09-24,30-09-24, 01-10-24, 02-10-24, 05-11-24, 06-11-24, 16-12-24, 17-12-24, 18-12-24, 19-12-24,20-12-24,21-12-24,23-12-24, 24-12-24,26-12-24,27-12-24,28-12-24	649	540	1189	-
8	Viksit Bharat Sankalp Yatra	1 day/12-01-24,15-01-24, 15-01-24, 23-01-24, 24-01-24	97	110	207	-
		TOTAL	**1636**	**1357**	**2993**	-

Special Programmes

Celebration of World Environment Day

International Women's Day

ICAR Foundation Day

Vermicomposting demonstration under Swacchta at GHS Porba

Vermicomposting demonstration under Swacchta at GHS Sakarba

Vigilance awareness week celebrated at KVK Phek

Special Programmes

Foundation day of KVK Phek & Kisan Gosthi

International Rural Women Day

NARI Programme

HRD programme

Kisan Divas

World Soil Day

PROTECTION OF PLANT VARIETY AND FARMERS' RIGHTS (PPVFRA)

- ICAR-KVK Phek, in collaboration with the Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA), New Delhi, organized a training-cum-awareness programme on December 18, 2024, at ICAR-KVK, Phek. A Biodiversity Fair showcased local crop varieties from different blocks of Phek district.
- Registration of farmers' varieties was initiated with the support of KVK Phek.
- 203 participants attended the programme.

Functional Linkages Established with Different Organizations

Name of organization/ Agency	Nature of linkage
1. ICAR-NRC on Mithun, Medziphema	Joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration
2. ICAR RC NEH, Barapani	Participation in meeting, technology and training programmes
3. AAU, Jorhat	Participation in meeting, technology, exposure visit and training programmes
4. Central Institute of Horticulture (CIH) Medziphema	Participation in meeting and training programmes
5. Directorate of Arecanut and Spices Board, Calicut, Kerala.	Joint meeting, training and demonstration programme.
6. Agri and allied Department, Phek	Training/Seminar, demonstration and other extension activities.
6. NABARD, Phek	Meeting, Training
7. NStCB, Pfutsero	Meeting, Training
8. NU School of Agricultural Sciences (SAS), Medziphema	Participation in meeting, training programmes
9. NGO (CWWS,Pfutsero , NEIDA and NEN,Chizami,)	Training, demonstration and other extension activities
10. National Rural Livelihood Mission (NRLM)	Training programmes.

Sponsored Programmes

Sl.No	Name of the programmes	Sponsoring Agency
1	Distribution of Medicinal Plants	CSIR-NEIST, Jorhat
2	PM-KUSUM on Awareness raising workshop for farmers on KUSUM component A	ASCI New Delhi
3	Training cum Awareness Programme under Protection of Plant varieties and Farmers Right Authority	PPVFRA
4	Plant genetic and biodiversity fair sponsored by NPBGR,New Delhi at Chepoketa village.	ICAR-NBPGR
5	Plant genetic and biodiversity fair sponsored by NPBGR,New Delhi at Porba village	ICAR-NBPGR

External Funded Projects

Sl.No	Name of the programmes	Sponsoring Agency	Amount (Rs)
1	Establishment of large cardamom nursery in KVK Phek.	Directorate of Arecanut and Spices Development, Ministry of Agriculture and farmer's Welfare, Government of India Calicut, Kerala	**5,00000**
2	Promotion of Indigenous germplasm of foxtail millet and seed bank to preserve millet genetic diversity in Phek district of Nagaland.	NABARD Dimapur Nagaland	**5,46,000**




AWARDS AND RECOGNITIONS (FOR STAFF)

Sl. No.	Name	Name of Award	Professional Society/Govt. Dept./ Any Agency
1	Dr Sanjeev Kumar Singh	Best oral presentation award for the paper Community based seed banks: A strategy for biodiversity conservation and sustainable agriculture in rural villages.	*In* the National Conference on Managing Agro-Biodiversity in North Eastern India (NCMAN), ICAR Research Complex for NEH Region, Umiam, Meghalaya, 23-25 October, 2024.
2	Dr Sharanappa C. H	Best poster presentation award for the paper Insect pests of rice ecosystem in Phek district of Nagaland.	*In* the National Conference on Managing Agro-Biodiversity in North Eastern India (NCMAN), ICAR Research Complex for NEH Region, Umiam, Meghalaya, 23-25 October, 2024.

AWARDS AND RECOGNITIONS (FOR FARMERS)

Sl. No	Name of the Farmers	Name of Award	Professional Society/Govt. Dept./ Any Agency	Significant Contribution/ achievement
1	Mr. Venieo Vadeo, Sakraba village	IARI Innovative Farmer Award–2024	ICAR-IARI	Brush cutter cum tiller
2	Mrs Nuzolu Chuzho, thipuzu village.	Innovative Farmer Award Outlook Agri-tech Summit & Award 2024	Outlook, New Delhi.	Low-cost bamboo potato storage

Variety Registered

Six farmer varieties of rice namely **Menabe, Kuthingiri, Kongulo Ru, Nyode, Tenabu, Thumuri from Phek district Nagaland** registered by KVK, Phek under the Protection of Plant Varieties and Farmers Rights Act, 2001 at Protection of Farmers Varieties and Farmers Rights Authority (Govt. of India), New Delhi

PUBLICATIONS

Item	Nos	Title
Research paper	**3**	• Kaur, S, S Godara, N Singh, A Kumar, R Pandey, S Adhikari, S Jaiswal, S K Singh, J C Rana, R Bhardwaj, B K Singh and A Riar (2024) Multivariate data analysis assisted mining of nutri-rich genotypes from North Eastern Himalayan germplasm collection of Perilla (*Perilla frutescens* L.), *Plant Foods for Human Nutrition*, https://doi.org/10.1007/s11130-024-01220-8 ***NAAS 10.0*** • Kaur, S, K Seem, A Ali, S Jaiswal, P Gumachanamardi, G Kaur, N Singh, L Touthang, S K Singh, R Bhardwaj, B K Singh, V K Mishra and A Riar (2024) A comprehensive review on nutritional, nutraceutical, and industrial perspectives of perilla (*Perilla frutscens* L.) seeds –An orphan oilseed crop, *Heliyon* 10 e33281, https://doi.org/10.1016/j.heliyon.2024.e33281 ***NAAS 10.0*** • Singh SK, RS Rathi, KC Bhatt, S Hajong and N A Singh. (2024) Multi-crop Exploration in Unexplored Areas of Garo Hills, Meghalaya. *Indian J. Plant Genetic Resources*. 37(1): 47-55. DOI: 10.61949/0976-1926.2024.v37i01.06 ***NAAS 5.17***
Abstracts presented	**3**	• Sharanappa C.H., Venkatesh, Hannah K. Assangla, T. Esther Longkumer, S. K. Singh and Girish Patil, S. (2024). Insect pests of rice ecosystem in Phek district of Nagaland. *In*: Verma V.K., Kumar A., Das S., Singh N.U., Singh M., Tripathi K. and Agrawal A. (eds.) Book of Abstracts of the National Conference on Managing Agro-Biodiversity in North Eastern India (NCMAN), ICAR Research Complex for NEH Region, Umiam, Meghalaya, 23-25 October, 2024. Indian Society of Plant Genetic Resources, New Delhi, India, 153 p. • *Hannah K. Asangla, T. Esther Longkumer, Venkatesh, Sharanappa C. H. and Sanjeev Kumar Singh (2024). Zabo Farming System: A Water Scarcity Solution in Phek district of Nagaland In*: Bhutia, P.L., Celina, V.A., Seyie, A., Yanthan, A.W., Barman, J. Singh, M., Verma, H., Aochen, C., Assumi, S.R., Baite, M.S., Kalita, H. and Mishra, V.K. Book of Abstracts of the National Conference on National Conference on Hill Agro-Ecosystem: Challenges and Opportunities for Achieving Sustainable Development Goals (HAES-COSDG, 2024). ICAR Research Complex for North Eastern Hill Region, Nagaland Centre, Medziphema, India. 29-30th November, 2024. Indian Association of Hill Farming. Umiam, Meghalaya, *61* p. • *T. Esther Longkumer, Hannah K. Asangla, Venkatest, Sharanapa C.H and Sanjeev Kumar Singh (2024). Enhancing Potato Yield and Quality through Biofertilizer Application. In*: Bhutia, P.L., Celina, V.A., Seyie, A., Yanthan, A.W., Barman, J. Singh, M., Verma, H., Aochen, C., Assumi, S.R., Baite, M.S., Kalita, H. and Mishra, V.K. Book of Abstracts of the National Conference on National Conference on Hill Agro-Ecosystem: Challenges and Opportunities for Achieving Sustainable Development Goals (HAES-COSDG, 2024). ICAR Research Complex for North Eastern Hill Region, Nagaland Centre, Medziphema, India. 29-30th November, 2024. Indian Association of Hill Farming. Umiam, Meghalaya, *78* p.

PUBLICATIONS

Item	Nos	Title
Book chapter	1	S K Singh and RS Rathi (2024) Sugandhmantri (*Homalomena aromatic* Schott): A Potential Medicinal & Aromatic Plant in North-eastern Region of India. Eds. Mohan Lal and Twahira Begum in Advancement of Agro technology: Exploring Phytochemical Applications of Medicinal and Aromatic Plants Vol II, Published by Mahi Publications Boriya Street Ahamdabad, Gujarat. *ISBN: 978-81-971922-5-8.*
Lead Paper presented/ Oral Presentation delivered	3	• S.K. Singh and A.K. Misra (2024). Agro-Morphological Characterization of Rice Bean (Vigna umbellata) Accessions from Northeast India for Breeding Program Enhancement. *In*: Bhutia, P.L., Celina, V.A., Seyie, A., Yanthan, A.W., Barman, J. Singh, M., Verma, H., Aochen, C., Assumi, S.R., Baite, M.S., Kalita, H. and Mishra, V.K. Book of Abstracts of the National Conference on National Conference on Hill Agro-Ecosystem: Challenges and Opportunities for Achieving Sustainable Development Goals (HAES-COSDG, 2024). ICAR Research Complex for North Eastern Hill Region, Nagaland Centre, Medziphema, India. 29-30th November, 2024. Indian Association of Hill Farming. Umiam, Meghalaya, *30* p. • S.K. Singh, A.K. Misra, Hannah K. Asangla, T. Esther Longkumer, Venkatesh, Sharanappa C. H. and Girish Patil S. (2024) Nutritional Potential of *Perilla frutescens* (Linn.) Britt. in the Northeastern Hill (NEH) Region of India. *In*: Verma V.K., Kumar A., Das S., Singh N.U., Singh M., Tripathi K. and Agrawal A. (eds.) Book of Abstracts of the National Conference on Managing Agro-Biodiversity in North Eastern India (NCMAN), ICAR Research Complex for NEH Region, Umiam, Meghalaya, 23-25 October, 2024. Indian Society of Plant Genetic Resources, New Delhi, India, 10 p. • Hannah K. Asangla, T. Esther Longkumer, Venkatesh, Sharanappa C. H., Khrüzho Sakhamo and S.K. Singh (2024). Community based seed banks: A strategy for biodiversity conservation and sustainable agriculture in rural villages. *In*: Verma V.K., Kumar A., Das S., Singh N.U., Singh M., Tripathi K. and Agrawal A. (eds.) Book of Abstracts of the National Conference on Managing Agro-Biodiversity in North Eastern India (NCMAN), ICAR Research Complex for NEH Region, Umiam, Meghalaya, 23-25 October, 2024. Indian Society of Plant Genetic Resources, New Delhi, India, 129 p.

PUBLICATIONS

Item	Nos	Title
Newsletter	2	• Krishi Vikas –Beta-Berrhi Thiluhye-Jan to June 2024 • Krishi Vikas –Beta-Berrhi Thiluhye-July to Dec 2024
Popular articles	11	• Botanical remedies from plant material under natural farming (The Morung Express, Nagaland Post, Eastern Mirror/22-01-2024) • Soil and water conservation in natural farming (The Morung Express, Eastern Mirror/29-01-2024) • Best integrated crop management practices (The Morung express /01/03/2024) • Organic soil management practices (The Morung Express /01-11-2024) • Drought Resilience: Building a Sustainable Tomorrow (The Morung Express / 06-12-2024) • Regenerative Agriculture: A Step towards Environmental Resilience (The Morung express/05/12/2024) • Wood compost-a natural soil amendment(Nagaland Post, Eastern Mirror/14-12-2024)
Newspaper coverage (Local Dailies)	12	KVK Phek conducts XIXth SAC, 'Kisan Gosthi'-cum-exhibition in Phek, KVK Phek conducts awareness cum seed distribution programme, ICAR-NBPGR organises awareness programme at Porba, World Environment Day, KVK organises training for farmers, Children's Day (14-11-2024), students from PM Shri School, Jawahar Navodaya Vidyalaya, Zuketsa, as part of the PM Shri Exposure Scheme to visit higher institutions, Krishi swarna samriddhi week, World Soil Day
TOTAL	**33**	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.....thank you