PROFORMA FOR ANNUAL REPORT OF KVKS 2023 (January- December)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
KVK Champhai District, Kawnzar Veng, Khawzawl – 796310, Mizoram	9436190701	NA	kvkkhawzawl@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
DepartmentofAgriculture,Govt.ofMizoram	9436190701	0389-2315784	mizagri@gmail.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.Malsawmkimi	Vengthar,Khawzawl–796310, Mizoram	9612624738	Sawmi77@rediffmail.com

1.4. Year of sanction:2004

1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Category (SC/ST/ Others)
1	Sr. Scientist & Head	Dr. Malsawmkimi	Sr.Scientist &Head	Horticulture	Level-13(A)	135000	24.02.2022	ST
2	Subject Matter Specialist	R. Vanlalduati	SubjectMatterSpecialist	Soil Science	Level-11	80900	12.03.2012	ST
3	Subject Matter Specialist	Rambuatsaiha	SubjectMatterSpecialist	Agronomy	Level-10	56100	29.08.2023	ST
4	Subject Matter Specialist	Vacant	SubjectMatterSpecialist	-	-	-	-	-
5	Subject Matter Specialist	Vacant	SubjectMatterSpecialist	-	-	-	-	-
6	Subject Matter Specialist	Vacant	SubjectMatterSpecialist	-	-	-	-	-
7	Subject Matter Specialist	Vacant	SubjectMatterSpecialist	-	-	-	-	-
8	Programme Assistant	Lalhruaitluangi	ProgrammeAssistant	HomeScience	Level-7	62200	01.07.2008	ST
9	Computer Programmer	K.Lalramchama	ComputerProgrammer	Computer Programmer	Level-7	60400		ST
10	Farm Manager	Prakash Thapa	FarmManager	FarmManager	Level-7	62200	25.04.2008	Others
11	Superintendent / Accountant	Maria Lalthafamkimi	Superintendent/Accountant	Assistant	Level-6	53600	04.07.2011	ST
12	Stenographer	C.Lalramthangi	Stenographer	Stenographer	Level-4	35300	03.10.2011	ST
13	Driver	R.Dengliana	Driver	Driver	Level-4	35300	29.02.2008	ST
14	Driver	Lalnuntluanga	Driver	Driver	Level-4	35300	29.02.2008	ST
15	Supporting staff	Vanlalvenhima	Supportingstaff	Supportingstaff	Level-3	27600	24.07.2008	ST
16	Supporting staff	C.Vanlalpeka	Supportingstaff	Supportingstaff	Level-1	18000	17.10.2023	ST
	Total							

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 12.774 ha

b. Total cultivable land with KVK (in ha): 8.464ha

c. Total cultivated land (in ha): 4.217

S. No.	Item	Area (ha)
1	Under Buildings	1.31
2.	Under Demonstration Units	11.474
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i.Cereal ii.Pulses (Blackgram, Greengram, Field pea iii. Toria	 i.0.5 ii. 1.0 iii. 0.2
4.	Under vegetables	0.20
5.	Orchard/Agro-forestry	1.3
6.	Others (specify)	1.0

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2007					Completed
2.	Farmers Hostel	ICAR	2009					Needs majorrepair
3.	Staff Quarters (6)	ICAR	2007					CompletedbutneedsRepair
4.	Demonstration Units (2)	ICAR	2007					Completedbutneeds repair
5	Fencing	ICAR	2009					
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	MZ01N-9053	2017		142135	Needsrepair/replacement
Tractor	MZ01P-0211	2017		409.7	Needsrepair
Tractor	MZ01D-2246	2006		1097.4	Not inRunningCondition

C) Equipments & AV Aids

Name of the equipments	Year of purchase	Cost (Rs.)	Present status
LCDprojector	Sept,2008	-	Replacementrequired
Xeroxmachine	Sept,2011	-	Good
Computer	Sept,2008/2011	-	Needupgradation
Seedanalyser	Sept,2008	-	NOTWORKING
Refrigerator	Sept,2008	-	Good
BODIncubator	Sept,2008	-	NOTWORKING
HotAirOven	Sept,2008	-	NOTWORKING
Grinder	Sept,2008	-	Good
Laptop	Sept,2008	-	Good
T.V.	Sept,2008	-	Good
A.C.	Sept,2008	-	NOTWORKING
WaterPump(5hp)	2008	-	Good
PaddyThresher	2009	-	Good
PowerTiller(MitshubishiShakti)	2008	-	Good
PowerTiller(Greaves.GS15DILS)	2014	-	Good
SolarDryer	2012	-	NEEDREPAIR
ChaffCutter	2014	-	Good
MiniRiceMillcumOilExpeller	2015	-	Good
MiniDalMill	2012	-	Good
RiceMill(Polisher+winnower)	2017	-	Good

1.8. A). Details SAC meeting* conducted in 2023

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
29th January 2024	Mr.Vanlalthlamuana, Director of Agriculture and Chairman SAC, Mizoram	Emphasis to be given on soil conservation technologies & strategies be formulated and may be incorporated through Awareness and Training Programmes	Trial on performance of new generation herbicides on Paddy
	Mr.Lalmalsawma, Jt.Director of Agriculture, Mizoram		Varietal Evaluation of sweet corn
	Dr. Malsawmkimi, Senior Scientist & Head & Member Secretary SAC, KVK Khawzawl		Assessment of musk melon varieties
	Ms Lalnunpuii Parte, Director, SAMETI, Mizoram		ICM on water melon
	Mr.Lalduhthlana, District Forest Officer, Champhai	Emphasis & Focus may be given on Climate Resilient Agriculture	Leguminous cover crop on growth and yield of Tomato
	Mrs.Lalramhluni, District Agriculture Officer, Champhai		Popularization of Mustard variety Pusa M-26
	Mr.VanlalruataHnamte, District Agriculture Officer, Khawzawl.		Popularization of Aman with rhizobium inoculation
	Mr.Lalrochhara, DO, Soil & Water Conservation, Khawzawl	Log wood bunding technologies may be awarded and popularize on large scale basis	Calcium as foliar application for growth and yield of Tomato
	Dr. Lalbiakzuala Sailo, District AH & VO, Khawzawl	Awareness on diseases and management on livestock	Trials on Nutrient Enriched Compost
	Mr. F. Lalmalsawma, Deputy Director of Agriculture (KVK), Mizoram		

	Mr.Zohmingthanga, DFDO, Khawzawl		
	Mrs.Lalrokimi, Member, MHIP Sub Headquarter, Khawzawl		
	Mr.Lalzarliana, President, All Mizoram Farmers Union, Khawzawl		
	Mr.DajiedLalthlamuana, BTM, ATMA, Khawzawl		
	Mr.Lalrotluanga, Editor, Khawzawl Times Daily Newspaper		
	Mr.Vanlalzawna, Editor, Siar Daily Newspaper		
	Ms. Vanlalduati, SMS (Soil Science), KVK, Khawzawl		
	Mr. Rambuatsaiha, SMS (Agronomy), KVK, Khawzawl		

** Attach a copy of SAC proceedings along with list of participants*

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

Sl. No	Farming system/enterprises
1	Horticulture+Maize+AnimalHusbandry-Highland(>1250mMSL)
2	JhumPaddy+Vegetable+ AnimalHusbandry-Midland(900-1250mMSL)
3	WetlandRice+Fish+WinterVegetables-Lowland(<900mMSL)
4	

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

Sl. No	Agro-climatic Zone	Characteristics
1	Sub-tropical/Sub-temperate/Humid	SomepartsofthedistrictlikeNgopa&KhawzawlblockexperienceallthethreeseasonsI.e. winter, summer and rains, while in the Champhai valley the temperature ranges from1-7^{0}C for a longer period during winter, severely affecting the crops because of frostyweather. The relative humidity of the region ishigher due to heavy rains (2500 mmannually).

2.3 Soil types

Sl. No	Soil type	Characteristics	Area in ha
1	BlackSoils		36550ha
2	RedSoils		89600ha
3	AlluvialSoils		31000ha
4	Sandysoil		3600ha
5	AcidSoils		89600 ha

2.4. Area, Production and Productivity of major crops cultivated in the district

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	JhumPaddy	4350	4431	0.982
2	Paddy(WRC)	3750	8148	0.460
3	Maize	1660	2345	0.708
4	Ricebean	83	104	0.80
5	Arhar	20	17	1.18
6	Fieldpea	295	425	0.694
7	CowPea	210	231	0.909
8	FrenchBean	193	401	0.481
9	Soyabean	205	196	1.05
10	Potato	205	2057	0.099
11	Onion	6	34	0.18
12	Brinjal	365	2355	0.154
13	Cauliflower	75	745	0.10

14	Pea	35	150	0.23
15	Carrot	55	393	0.14
16	Cabbage	175	2363	0.07
17	Tomato	31	292	0.11
18	Okra	279	1861.3	0.15
19	Capsicum	25	331.5	0.07
20	Broccoli	16	100.1	0.16
21	Ginger	1008	4969	0.20

2.5. Weather data

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	**Minimum**	
Jan	0	19	13	66.16
Feb	0	23	14	59.56
Mar	0	25	19	67.68
Apr	2.25	28	21	80.00
May	2.23	29	21	88.69
Jun	2.65	28	24	91.19
Jul	5.25	29	25	91.15
Aug	3.50	28	24	90.23
Sep	2.45	29	22	86.75
Oct	0.20	27	22	78.93
Nov	0	26	20	76.78
Dec	0	24	15	79.25

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2023)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem Identified	Identified thrust area
1	Khawzawl	Khawzawl	Khawzawl	WRC + Jhum paddy +Maize + Wintervegetables + AnimalHusbandryandFisheries	• Improper nursery managementin WRC. • Improper nutrientmanagement • Infestation ofinsectpest anddiseases. • Lackofawareness towards integratedfarming • Lack of knowledge andawareness on livestockmanagement, feed and fodderproduction	Nurserymanagement - Integrated Nutrient Management - Integrated Pest Management - Creting awareness for adoption of integrated farming - Creting awareness for livestock management and feed and fodderproduction
2	Khawzawl	Khawzawl	Biate	Jhum paddy + Tea +Orange + Vegetables +Animal Husbandry	• Lack of knowledge on croprotation • Noproperpostharvestmanagement in tea. • Lack ofquality seed of differentvegetables • Citrus declining • Lackofknowledgeandawareness on livestockmanagement, feed and fodderproduction	- Creating awareness on crop rotationandintegratedfarming - Training on post harvest managementintea. - Creating awareness for the use of qualityseedsindifferent vegetables - Rejuvination of old citrus orchard. - Creatingawarenessforlivestockmanagement and feed and fodderproduction

3	Khawzawl	Khawzawl	Chawngtlai	WRC+Jhum PaddyGrapes + GingerPassion fruit+Animal Husbandry	- Lack of Training and pruning of Passion Fruit and Grapes - ManagementinWRC. - Improper Nutrient Management - Infestation of Insect Pest and Diseases	- Cultivation Practices of Grapes and passion fruit - IDM in Ginger - Integrated Nutrient Management - Integrated Pest Management - Management and feed and fodderproduction
4	Khawzawl	Khawzawl	Kawlkulh	Jhum paddy + Maize +Banana + Ginger +Animal Husbandry +Orange	- Lack of awareness towardsintegratedfarming. - Improper nutrient management in Orchard	- Creating awareness foradoption of integratedfarming. - - Rejuvination of old citrus orchard. - Creatingawarenessforlivestockmanagement
5	Khawzawl	Khawzawl	Dulte	Jhum paddy + Banana +Maize+ Ginger+Vegetables	- Lack of Orchard management. - Impropernutrient management. - Integratedfarming.	- Training on Orchardmanagement. - Integrated Nutrient and Pest Management - Creating awareness foradoption of integratedfarming.
6	Khawzawl	Khawzawl	Rabung	Jhum paddy + Maize +Ginger +Vegetables	- Lack of Orchard management. - Impropernutrient management. - Integratedfarming.	- Training on Orchardmanagement. - Integrated Nutrient and Pest Management - Creating awareness foradoption of integratedfarming.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2023

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	2	2	6	6	2	2	25	25
Horticulture								
Soil Science	2	2	6	6	2	2	20	20
Home Science								
PP								
A.Sc								
Total	**4**	**4**	**12**	**12**	**4**	**4**	**45**	**45**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Agronomy								
Farmers	1	1	20	25	7	7	230	215
Rural youth	1	1	22	22	1	1	35	42

Extn. Functionaries					1	1	15	23
Horticulture								
Farmers					4	4	65	70
Rural youth					1	1	15	25
Extn. Functionaries					1	1	22	30
Soil Science								
Farmers					10	11	200	233
Rural youth					2	2	50	65
Extn. Functionaries					1	1	27	36
Total	**2**	**2**	**44**	**47**	**28**	**29**	**659**	**739**

Seed Production (ton.)		**Planting material (Nos. in lakh)**	
Target	**Achievement**	**Target**	**Achievement**
6.1	6.1	0.89	0.89

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2023

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Soil management	Paddy	Poor performance of crop due to low availability of Phosphorus in soil	Phosphorus Management in Rice based cropping system	Popularization of Foliar application of Calcium to improve growth, Yield and Quality of Tomato variety Arka Samrat	Roles of essential nutrients in crop development	-	Diagnostic Visit,Training & Field Day	Seeds, Fertilizers & Insecticides
2	Nutrient management	Tomato	Ignorance of the significance of cover crops	Effect of leguminous cover crops on growth and yield of Tomato	Nutrient Enriched Compost	Production and Use of Organic inputs	-	Diagnostic Visit, Training & Field Day	Microbial Consortium, Rock Phosphate, Seeds, Insecticides & Fertilizers
3	Weed Management	Paddy	High labour cost and huge time requirement for manual weeding	Performance of New generation herbicides for better yield & income of Rice	Popularization of Mustard Variety: Pusa Mustard 26	INM in Paddy	-	Diagnostic Visit, Training & Field Day	Seeds, Herbicides etc
4	Varietal Evaluation	Sweet Corn	Lack of high yielding sweet corn variety in the District	Varietal evaluation of Sweet Corn	Popularization of Aman with Rhizobium inoculation	Seed Inoculation of Pea with Rhizobium	-	Diagnostic Visit, Training & Field Day	Rhizobium and Seeds

5	Varietal Evaluation	Yard Long Bean	Lack of high yielding Yard long bean variety in the District	Assessment of Yard long bean varieties in Champhai District	Popularization of Brinjal variety Arka Harshita	-	-	Diagnostic Visit, Training & Field Day	Seeds
6	Nutrient Management	Tomato	The importance of zinc and boron applications is neglected in the District.	Assessment of interaction effect of Zinc and Boron on the growth and yield of Tomato					

3.1 Achievements on technologies assessed and refined during 2023

A.1 Abstract of the number of technologies assessed* in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	1			2					4
Seed / Plant production										
Weed Management	1									1
Integrated Crop Management					1					1
Integrated Nutrient Management	1		1		2					4
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										

Value addition										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	**3**	**1**	**11**		**5**					**10**

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

A.2. Abstract of the number of technologies refined* in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										

Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

* *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
TOTAL								

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								

Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing (OFT)

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)				Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable
1	Performance of New generation herbicides for better yield & income of Rice	High labour cost and huge time requirement for manual weeding	TO 1: Council Activ @ 90 gm/acre at 10 to 15 days after transplanting. TO 2: farmer practice	Paddy	3	TO-1 34 q/ha TO-2 30.25 q/ha	TO-1 38670 TO-2 56400	TO-1 85000 TO-2 75625	TO-1 46330 TO-2 19225			TO-1 2.2 TO-2 1.34
2	Varietal evaluation of Sweet Corn	Lack of high yielding sweet corn variety in the District	TO- 1: Introduction of Pusa Super Sweet Corn Spacing: 75 X 30 cm Seed rate: 10 kg/ha TO- 2: Local variety	Sweet Corn	3	TO-1 107.4 q/ha TO-2 93.3 q/ha	TO-1 79000 TO-2 57000	TO-1 30100 TO-2 15900	TO-1 222000 TO-2 102000			TO-1 3.81 TO-2 2.79

3	Phosphorus Management in Rice based cropping system	Poor performance of crop due to low availability of Phosphorus in soil	TO-1: 40:20:40 NPK Kg/ha and 50 g PSB/kg seed Seed rate-20kg/ha TO-2: Farmer's Practice	Paddy	3	TO-1 39.40 q/ha TO-2 35.51 q/ha	TO-1 42630 TO-2 41053	TO-1 112571 TO-2 85200	TO-1 69941 TO-2 44147			TO-1 2.6 TO-2 2.0
4	Effect of leguminous cover crops on growth and yield of Tomato	Ignorance of the significance of cover crops	TO-1 Cover crops-Cow pea TO-2: Farmers Practice	Tomato	3	TO-1 330q/ha TO-2 275 q/ha	TO-1 173195 TO-2 167230	TO-1 660000 TO-2 550000	TO-1 486805 TO-2 382770			TO-1 3.8 TO-2 3.2
5	Assessment of Yard long bean varieties in Champhai District	Lack of high yielding Yard long bean variety in the District	Variatal evaluation of Yard Long Bean Variety Arka Mangala	Yard Long Bean	3	Yield : 145 (qtl)/ha	55000	174000	119000	The cooking quality and tastes are good. No severe pests or illnesses were observed, pod is		3.16

										delicate, fibrous-free, and cooked well. Can be eaten as green		
6	Effect of Questa-grow Brand Biostimulant on Growth and Yield of Tomato	Low yield with existing practice	Introduction of Bio-stimulantin tomato cultivation	Tomato	3	488.29 (qtl)/ha	151017	732435	581418	Picking time is longer than farmers check, and the appearance of tomato fruit is attractive		4.85
7	Effect of Questa-grow Brand Biostimulant on Growth and Yield of Broccoli	Low yield with existing practice	Introduction of Bio-stimulant in tomato cultivation	Broccoli	3	120 (qtl)/ha	184600	720000	582000	It resulted in increased production, and no major pests or diseases were recorded.		3.9

**Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermicompost kg/unit area.*

*** Give details of the technology assessed or refined and farmer's practice*

3.2 Achievements of Frontline Demonstrations during 2023

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous years and popularized and recommended for large scale adoption in the district

Sl. No	Crop and Variety/Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Mustard	Popularization of Mustard Variety: Pusa Mustard 26 D.O.S. :November Seed rate : 5kg/ha	3	10	2
2	Field Pea	Popularization of Aman with Rhizobium inoculation *Rhizobium* coating @200gm/10Kg seed	3	15	5
3	Tomato	Popularization of Foliar application of Calcium to improve growth, Yield and Quality of Tomato variety *Arka Samrat*	2	10	5

		1) NPK-100:80:40 Kg/ha 2) Calcium Nitrate (5g/L) sprays should be applied at weekly intervals Subsequent irrigations at 10 days interval			
4	Compost	Nutrient Enriched Compost Raw materials-1900 kg vegetable wastes/straw,200 kg cow dung(dry weight basis), 250 kg Rock Phosphate. Pit size : 3mx3mx1m ➢ Prepare a base of the heap out of hard, woody materials such as sticks, bamboo sticks etc ➢ Place bio-solids over the base made above. The layer should be about 30 cm thick. ➢ Sprinkle slurry prepared by mixing cow dung and rock phosphate over the crop residues to moisten the material. ➢ Make another layer of crop residue and moisten it with slurry. ➢ Continue with alternate layer of crop residue and slurry until the heap is 1.5 m high. ➢ Cover the heap with soil or polythene and mix the material after 15 days. Give two turnings after 30 & 45 days. ➢ The compost becomes ready for field application within 90-100 days period.	3	10	0.20

5	Brinjal	- Popularisation of Brinjal Variety Arka Harshita - Crop duration: Aug-Nov 2023	5	17	3.75

** Thematic areas as given in Table 3.1 (A1 and A2)*

b. Details of FLDs conducted during reporting period (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No	**Crop**	**Thematic area**	**Technology Demonstrated**	**Season and year**	**Area (ha)**		**No. of farmers/ demonstration**			**Reasons for shortfall in achievement**	**Farming situation**	**Status of soil (Kg/ha)**		
												N	**P**	**K**
					Proposed	Actual	SC/ ST	Others	Total					
1	Mustard	Varietal evaluation	Variety: Pusa Mustard 26 D.O.S. :November Seed rate : 5kg/ha	Nov. 2023-Feb. 2024	2	2	10	-	10	-	Irrigated	-	-	-
2	Field Pea	INM	*Rhizobium* coating @200gm/10Kg seed	Dec. 2023-March 2024	5	5	15	-	15	-	Irrigated	-	-	-

3	Tomato	Nutrient Management	NPK-100:80:40 Kg/ha Calcium Nitrate (5g/L) sprays should be applied at weekly intervals	April-Sept.2023	5	5	10	-	10	-	Rainfed	291.0	10.71	191.1
4	Compost	Nutrient Enriched Compost	Raw materials-1900 kg vegetable wastes/straw,200 kg cow dung(dry weight basis), 250 kg Rock Phosphate. Pit size : 3mx3mx1m	June-Oct 2023	0.20	0.20	10	-	10	-	Irrigated	371.2	14.3	298.4
5	Brinjal	Varietal evaluation	Popularisation of Brinjal Variety Arka Harshita	Aug-Nov 2023	3.75	3.75	17	-	17	-	Irrigated	321.0	12.77	252.2

c. Performance of FLD on Crops during 2023

Sl.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)	% increase in	Additional data on demo. yield (Q/ha.)	Data on parameters other than	Econ. of demo. (Rs./ha.)	Econ. of check (Rs./Ha.)

No.				Demo.	Check	Avg. yield	H*	L*	yield, e.g., disease incidence, pest incidence etc.		GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
									Demo	Local								
1	Mustard	Varietal Evaluation	2	11.75	9.8	20	12.6	10.9	-	-	35660	76780	41120	2.15	32560	65350	32790	2
2	Field Pea	INM	5	21.7	16.2	34	22.9	20.5	-	-	38560	86800	48240	2.25	35800	64800	29000	1.81
3	Tomato	Nutrient Management	5	368	290	26.90	412	325	-	-	171910	736000	564090	4.2	169510	580000	410490	3.4
4	Compost	Nutrient Enriched Compost	0.20	8.9	7.3	21.91	9.7	8.1	-	-	9530	22,250	12,720	2.3	7624	14600	6976	1.9
5	Brinjal	Varietal evaluation	3.75	220	120	83.33	232	213	-	-	56000	154000	98000	2.75	5300	90000	48648	1.85

*H-Highest recorded yield, L- Lowest recorded yield ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio Produce Sale Price must be as per MSP or Registered Marketing Society Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	4	20.06.2023 28.08.2023 14.11.2023 12.12.2023	-	39 36 38 36	39 36 38 36	
2	Farmers Training	11	9.03.2023 5.04.2023 30.05.2023 9.06.2023 27.07.2023 14.08.2023 29.09.2023 11.10.2023 31.10.2023 16.11.2023 5.12.2023	-	29 25 27 34 29 32 29 30 31 30 30	29 25 27 34 29 32 29 30 31 30 30	
3	Media coverage	18	23.03.2023 5.04.2023 25.04.2023 10.05.2023 30.05.2023 9.06.2023 28.06.2023 12.07.2023 27.07.2023 14.08.2023 21.09.2023	-	-	-	

			29.09.2023 11.10.2023 31.10.2023 16.11.2023 28.11.2023 5.12.2023 12.12.2023				
4	Training for extension functionaries	2	14.08.2023 11.10.2023		11 15	11 15	
5	Any other (Pl. specify)						
	Total						

e. **Details of FLD on Enterprises**

(i) Farm Implements

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / Indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Catego		Name of Tech	No. of	No. of	No. of animals, poultry	Major Performance	% change in	Other parameters (if any)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)	Remarks

	ry (e.g., Dairy, Poultry etc.)	Thematic area	nology	farmers	units	birds etc.	parameters / indicators		the parameter	Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR	
							Demo	Check												
1																				

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR	
1																				

*** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iv)Other enterprises

Sl. No.	Category/ Enterpr		Name of Tech	No. of	No. of	Major Performance parameters / indicators	% change in	Other parameters (if any)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)	Remarks

	ise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	nology	farmers	units			the parameter	Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR	
						Demo	Check												

*** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)	% increase in Avg. yield	Additional data on demo. yield (Q/ha.)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)

					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	*Tomato*	*Arka Samrat*	*5*	*10*	368	290	26.90	412	325	171910	736000	564090	4.2	169510	580000	410490	3.4
2	Brinjal	*Arka HArshita*	*3.75*	*17*	220	120	83.33	232	213	56000	154000	98000	2.75	5300	90000	48648	1.85

**H-Highest recorded yield, L- Lowest recorded yield*

*** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

3.3. Achievements on Training during 2023

**(Attached separate in Excel format)

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	(Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T

Agronomy	Nutrient management	Importance of Green manuring for improving soil health	9/3/2023	1	Training Hall, KVK	Farm and Farm Women	-	-	-	22	7	29	22	7	29
	Improved package of practices	Package of practices for cultivation of Mustard	15/9/2023	1	Training Hall, KVK	Farm and Farm Women	-	-	-	27	17	44	27	17	44
	Nutrient management	Method and advantage of seed inoculation of Pulses.	20/10/2023	1	Training Hall, KVK	Farm and Farm Women	-	-	-	15	05	20	15	05	20
	Improved package of practices	Package of practices for cultivation of Maize	21/4/2023	1	Training Hall, KVK	Farm and Farm Women	-	-	-	13	6	19	13	6	19
Soil Science	Soil fertility management	Soil & Nutrient Management	9.05.2023	1	KVK Training Hall	Farmer & Farm women	-	-	-	17	12	29	17	12	29
	Integrated Nutrient Management	Integrated Nutrient Management in Paddy	2.06.2023	1	KVK Training Hall	Farmer & Farm women	-	-	-	21	16	37	21	16	37

	Vermi0compost production	Vermicomposting	18.04.2023	1	KVK Training Hall	Farmer & Farm women	-	-	-	11	4	15	11	4	15
	Mushroom production	Mushroom production Technique	4.04.2023	1	KVK Training Hall	Farmer & Farm women	-	-	-	-	11	11	-	11	11
	Vermiculture	Vermiwash	25.07.2023	1	KVK Training Hall	Rural Youth	-	-	-	17	3	20	17	3	20
	Mushroom Production	Mushroom production Technique	24.04.2023	1	KVK Training Hall	Rural Youth	-	-	-	12	5	17	12	5	17
	Production of Inputs at site	Nutrient Enriched Compost	22.08.2023	1	KVK Training Hall	Extension Personnel	-	-	-	21	12	33	21	12	33
Horticulture	Nursery raising	Nursery Management of Horticultural crops	23.5.2023 29.5.2023 31.5.2023	3	KVK Training Hall	Farmer & Farm women				22	10	32	22	10	32

	Protected cultivation technology	Proected cultivation of Horticultural crops	19.6.2023 23.6.2023 26.6.2023	3	KVK Training Hall	Farmer & Farm women				20	10	30	20	10	30
	Off season Vegetable cultivatio	Scientific cultivation of off season vegetable	12.5.2023 15.5.2023 17.5.2023	3	KVK Training Hall	Farmer & Farm women				26	15	41	26	15	41

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	**Area of training**	**Title of the training programme**	**Date (From – to)**	**Duration in days**	**Venue**	**(Farmer & Farm women/ RY/ EP and NGO Personnel)**	**General participants**			**SC/ST**			**Grand Total**		
							M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Agronomy	Improved Package of Practice	Cultivation of Field pea & benefits of *Rhizobium* inoculation	9/11/2023	1	Phaitha	Farmer & Farm women	-	-	-	12	8	20	12	8	20

	Soil fertility Management	Importance of Green manuring for improving soil health	3/4/2023	1	Tualte	Farmer & Farm women	-	-	-	11	15	16	11	15	16
	Water Management	Importance of Life saving irrigation for Rabi crops.	25/9/2023	1	Neihdawn	Rural Youth	-	-	-	13	4	17	13	4	17
Soil Science	Management of Problematic soils	Management of Problematic soils	12.9.2023	1	Neihdawn	Farmer & Farm women	-	-	-	12	18	30	12	18	30
	Balance Use of fertilizer	Balance Use of fertilizer	12.6.2023	1	Tuipui	Farmer & Farm women	-	-	-	11	13	24	11	13	24
	Organic manures production	Promotion of Organic Farming	10.5.2023	1	Chawngtlai	Farmer & Farm women	-	-	-	21	15	36	21	15	36
Horticulture	Post-harvest management	Post-harvest management of Tomato	26.9.2019	1	Chawngtlai	Rural Youth				15	5	20	15	5	20
	Protected cultivation of vegetable crops	Protected cultivation of horticultural crops	4.10.2019	1	Tuipui	Farmer & Farm women				22	9	31	22	9	31

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	No. of person employed	Avg. Annual income	
Vermicompost	15-20.05.2023	6 days	Vermicompost Production	Vermicompost Production	-	-	-	7	9	16	7	9	16	-	1	-	-	MANAGE, 42,000/-

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On	RY		6	Soil Science	Vermicompost Production	Vermicompost Production	-	-	-	7	9	16	7	9	16	NABARD	25000/-

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2023

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Diagnostic visits	NA	**NA**	30	-	-	-	61	44	105	-	-	-	61	44	105
2.	Advisory Services	NA	**NA**	180	-	-	-	-	-	-	-	-	-	-	-	180
3.	Celebration of important days	NA	NA	6	-	-	-	150	80	230	-	-	-	150	80	230
4.	Exhibition	NA	NA	1	-	-	-	85	120	205	-	-	-	85	120	205
5.	Exposure visits	NA	NA	1	-	-	-	25	10	35	-	-	-	25	10	35
6.	Farmers Seminar/ workshop	NA	**NA**	1	-	-	-	45	15	60	-	-	-	45	15	60
7.	Farmers Visit to KVK	NA	NA	560	-	-	-	-	-	-	-	-	-	-	-	560
8.	Field Day	NA	NA	10	-	-	-	90	110	200	-	-	-	90	110	200
9.	Kisan mela	NA	NA	1	-	-	-	178	177	355	-	-	-	178	177	355
10.	Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

11.	Whatsapp Group for Farmers/Entrepreneurs formed	-	-	470	-	-	-	-	-	-	-	-	-	-	-	470
12.	News paper coverage	NA	NA	36	-	-	-	-	-	-	-	-	-	-	-	-
13.	Awareness Camp	NA	NA	3	-	-	-	-	-	-	-	-	-	-	-	-

3.5 Production and supply of Technological products during 2023

A. SEED MATERIALS

Major group/class	Crop wise	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
					M	F	M	F	
Cereals	Paddy	Local, Manipur	20	60000	-	-	5	2	**7**
Oilseeds	Groundnut	TAG-73	5	30000	-	-	3	2	**5**
Pulses	Field Pea	Aman, Azad Pea-3	10	150000	-	-	15	7	**22**
Vegetables (Potato)	Potato	Kufri Megha, Kufri Jyoti	12	25000	-	-	7	5	**12**

A1. SUMMARY of Production and supply of Seed Materials during 2023

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
1	Cereal	20	20	60000	-	-	5	2	7
2	Oilseeds	5	5	30000	-	-	3	2	5
3	Pulses	10	10	150000	-	-	15	7	22
4	Vegetables (Potato)	12	12	25000	-	-	7	5	12
TOTAL		**47**	**47**	**265000**			**30**	**16**	**46**

B. Production and supply of Planting Materials (Nos. in No.) during 2023

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
						General		SC/ST		Grand Total
						M	F	M	F	
Vegetable	Tomato	Arka Samrat, Arka Abhed	40000	40000	40000	-	-	7	5	12
	Onion	AFLR	15000	15000	15000	-	-	6	5	11
Fruit	Water Melon	Arka Muthu	2000	2000	4000	-	-	2	3	5
Tree Species	Tree Bean	Local	4000	4000	12000	-	-	15	7	22

C. Production of Bio-Products during 2023

Major group/class	Product Name	Species	Produced Quantity		Value (Rs.)	Number of Recipient /beneficiaries				
			No	(Kg)		General		SC/ST		Grand Total
						M	F	M	F	
Bioagents										
Biofertilizers	Vermi Compost			18000	540000	-	-	75	139	214
	Vermi wash			75	1500	-	-	15	49	64
Biopesticides										

D. Production of livestock during 2023

Sl. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries				
			(Nos)	Kgs		General		SC/ST		Total
						M	F	M	F	

3.6. Literature Developed/Published (with full title, author & reference) during 2023

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
1.	Package and Practices of Tomato variety Arka Abhed	Dr.Malsawmkimi	200	120
2.	Rural Composting (Indore method)	R.Vanlalduati	50	45
3.	Vermicompost	R.Vanlalduati	120	110
4.	Soil Health Card	R.Vanlalduati	150	130
5.	Natural Farming	Rambuatsaiha	120	102

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate the title in English

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1.			

1.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

SUCCESS STORY UNDER NARI, KVK CHAMPHAI DISTRICT

Introduction:

Ms Lalhminglawmi is a resident of Tuipui, Champhai District. Her primary occupation is farming. She occasionally sells both her own and other people's fresh produce in the market .They have three children and all of them are in school. On their farms, they raised a range of vegetables, but not enough to supply their families.

Training and Motivation

KVK Champhai District had organised an "Awareness Programme on "Nutri-Sensitive Agriculture". Under the Nutri-Sensitive Agriculture Research Innovation (NARI) programme, chosen women farmers received training and seeds on the same day. Ms. Lalhminglawmi was also selected as a recipient of NARI benefits. She began growing broccoli, okra, bitter gourd, and tomatoes to increase her income starting that day. She adopted the updated packages and practices for the aforementioned crops that KVK had taught her.

Impact/Achievements:

In the past, only a small number of people in Tuipui village had grown broccoli. However, after seeing Pi Hminglawmi's success and learning that the crop had performed well, the neighbours became interested in starting their own broccoli cultivation because the crop's market price was higher than that of other crops. As of the following year, other people have continued to purchase the seeds on their own expense.

She is a hard-working and successful woman who has never shied away from agricultural training. She seeks the advice of specialists before acting. In her accomplishment, she serves as a mentor to others. She imparts her knowledge and accomplishments to others.

In the NARI programme, Ms. Lalhminglawmi had great success and has gained knowledge of the advantages of growing high-yielding crops and desirable kinds. She has also planted nutritious crops like radishes and carrots in addition to these.

Other farmers became interested in following her method after observing the crop-growing conditions in her farms, such as the growing of short- and long-duration crops in the same year to provide continuous income.

ACTION PHOTOS

Success story of tomato cultivation in Rabung Village Mizoram

Background of the operation area: Rabung Village is located in Khawzawl District, The Village has340 households, with a population of approximately 1800. Before introducing tomato production to the village, farmers planted brinjal, ginger, paddy, turmeric, and maize. Farmers do not earn a good living from their farm product because of unscientific farming, pests and diseases, and also they do not cultivate vegetables on a large scale; their farm output is just enough to support their family. Farmers attempt to cultivate tomatoes but fail owing to pest and disease issues such as bacterial wilt, late blight, and virus concerns. To address this issue, KVK Khawzawl brought tomato varieties Arka Samrat to the village, which were believed to be triple resistant variety. Before introducing the tomato varieties, every year Mizoram has to import tomato from other neighboring state to meet the demand since tomato crop is never cultivated by farmers of Mizoram under open cultivation in large scale. This can be achieved by introduction of Tomato variety Arka Samrat in the District.

KVK Interventions: Tomato (Arka Samrat) seeds from IIHR, Bengaluru was cultivated at farmers field of Rabung village. Farmers successfully cultivated tomatoes with the help of KVK experts. KVK experts made frequent visits to the field and gave advice to the farmers. At present, a total of 40 household cultivated tomato within 20 ha of land.

Outcome/ Impact: Tomato cultivation has gained momentum and helped in upliftment of farmers socio economy. During 2023 with the guidance and technical support from experts of KVK, farmers of Rabung Village harvested an approximate of 900 quintals of Tomatoes. Fresh tomates were sold in local market of Rabung, Khawzawl and majority of the harvest sold at Aizawl market. This has changed the economic status of the farmers. Tomato cultivation in Rabung village has become a milestone on upliftment of farmers by fetching good returns of their produce and generating employments to the youths. Rabung farmers have a steady income from tomato cultivation.




3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10 Indicate the specific training need analysis tools/methodology followed for

3.11 Field activities

i. Number of villages adopted: 13

ii. No. of farm families selected : 67

iii. No. of survey/PRA conducted : 11

3.12. Activities of Soil and Water Testing

Status of establishment of Lab

1. **Year of establishment** : 2015
2. **List of equipments purchased with amount** :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		Mridaparikshak	-	1	86,000
TOTAL				**1**	**86,000**

3. **Details of samples analyzed (2023) :**

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	250	300	10	-
Water Samples				
Plant Samples				
Petiole Samples				
Total	**250**	**300**	**10**	**-**

1. **Details of Soil Health Cards (SHCs) (2023)**
   a. No. of SHCs prepared: 300
   b. No. of farmers to whom SHCs were distributed: 300
   c. Name of the Major and Minor nutrients analysed: N,P,K, B,& S
   d. No. of villages covered: 7

3.13. **Details of SMS/ Voice Calls sent on various priority areas**

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		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	37	37	-	-	24	-	-	-	5	61	-	-	66	98
Voice only	124	124	-	-	-	-	-	-	-	27	-	-	-	-
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	161	161	-	-		-	-	-	5	88	-	-	66	98

3.14 Contingency planning for 2023

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Introduction of new variety or crop	5	5	-	20	20
Introduction of Resource Conservation Technologies	2	2	-	5	5
Distribution of seeds and planting materials	10	10	-	125	125
Training and demonstration	10	10	-		

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total

4.0. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period only)

Name of specific technology/skill transferred	**No. of participants**	**% of adoption**	**Change in income (Rs.)**	
			Before (Rs./Unit)	**After (Rs./Unit)**

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

4**.2. Cases of large scale adoption**

(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2021

Name of organization	Nature of linkage
State Department of Agriculture	Supply of subsidized inputs like chemicals, farm machinery etc
State Department of Horticulture	Supply of subsidized inputs like HDPE pipes, Chemicals etc
FOCUS	Research linkage for conducting trials
ATMA	Resource person
NABARD	Provided Fund for Self Help Group formation , Training and Project Sanctioning
BDO	Supply of inputs like pipes and sprayer
Rural Development /MzSRLM	Resource person
NGOs AMFU, SHG	Technology transfer, Awareness programme, Celebration of important days
Department of Horticulture, Mizoram University	Training and Awareness programme, demonstration etc
District Co-Op Department	Resource person

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2023

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Plant Genetic Resources Awareness Programme in Agri-Horticultural Crops (NEH Schemes)	Training and awareness programme	13th Sept, 2023	NBPGR	-
Skill Training of Rural Youth	Participatory Lecture and Practical	13-17 Feb, 2023	MANAGE	42,000

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Training of Farmers	Technical Resources	Nil

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
	Nil	Nil	Nil

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
	Nil	Nil	Nil

5.6 MGMG of KVKs during 2023

No of Villages	Participants		No of Visit made	Participants		No of demonstration	Participants		No of Farmers meeting	Participants	
	SC/ST	Others		SC/ST	Others		SC/ST	Others		SC/ST	Others
2	61	-	3	21	-	10	15	-	6	25	-

5.7 Natural Farmingduring 2023

No. of demonstrations conducted	Participants		No. Trainings	Participants		No. of Awareness Programs	Participants	
	SC/ST	Others		SC/ST	Others		SC/ST	Others
NA								

5.8 Achievements under DAMU KVKs during 2023 (only selected KVKs)

No of KVKs	Beneficiaries	Advisories given (no)	Training organised (no)	Dissemination of Advisories
NA				

5.9 Format for Current Progress of Cluster Demonstrations on Organic Farming under PKVY during 2023 (only selected KVKs)

No. of clusters formed	No. of Farmers registered	Area covered (Ha)	No. of LRP identified	Number of clusters linked to certification agency	No. of clusters in which organic production started	Name of crops which are produced organically in clusters
NA						

Number of clusters linked to markets	Mobilization/ awareness camps organized		Farmers meetings organized		Training programmes organized		Exposure visits organized	
	No. of activities	No. of farmers	No. of activities	No. of farmers	No. of activities	No. of farmers	No. of activities	No. of farmers
NA								

6.0 Report on Agri Drone project (only selected KVKs)

S.No.	Name on the Project Implementing Centre (PIC)	No. of Kisan Drones Sanctioned	Target Area for Kisan Drone Demonstration (Ha)	No. of Kisan Drones Purchased by the PIC	Make and Model of Purchased Kisan Drone	Purchased cost of each drone (Rs.)	No. of Kisan Drone Demonstration organized	Date and Place of Kisan Drone Demonstration	Operation carried out (Pesticide/Nutrient application)	Area Covered under the Kisan Drone Demonstration	Number of farmers participated	Advantages of using Kisan Drones as observed during the demonstrations	Problems any encountered in Drone Purchase and their Demonstration	Additional Remarks if any
NA														

6.1 Status of NARI during 2023

Name of Nutri-SMART Village	**T1**	**T2**	**T3**	**Area (ha)**	**No of Beneficiaries**	**Name of crop**	**T1**			**T2**			**T3**		
							Name of variety	**Yield (q/ha)**	**Consumption (kg)**	**Name of variety**	**Yield (q/ha)**	**Consumption (kg)**	**Name of variety**	**Yield (q/ha**	**Consumption (kg)**
	Tuipui	Khawzawl		5	99	Carrot, Broccoli	Chantenay	57	750	Green Magic	41	820			

7. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2023

7.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Vermi composting unit – 2 nos	2008 & 2016	480 sq.ft	Eudrilluseuginea	Compost	180 qtl	1.7 lakh	5.4 lakh	
2	Azolla Unit	2016	160sq.ft	Azolla pinnata	Manure	15 qtl	0.6 lakh	1.2 lakh	

7.2 Performance of instructional farm (Crops) including seed production during 2023

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Lentil	11.12.2023	04.04.2024	0.0016	HUL-57, VL Masoor-126	Seed	1.2 kg	1700	180	Failed
Finger Millet	23.06.2023	-	0.25	Kodow	-	-	15690	-	Failed
French Bean	23.06.2023	29.09.2023	0.15	Arka Suvidha	Green Pods	19 q	29520	56500	
Cow Pea	20.09.2023	Nil	1 ha	Local	-	-	19740	-	Broadcasted and incorporatedfor green manuring

Soybean	23.06.2023	17.10.2023	0.15 ha	JS 335	Seeds	13.8	38300	82800	

7.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2023

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
	Vermicompost	180 qtl	1.7 lakh	5.4 lakh	
	Azolla	15 qtl	0.6 lakh	1.2 lakh	

7.4 Performance of instructional farm (livestock and fisheries production) during 2023

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
NA							

7.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2023

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST		
				Male	Female	Total
11.04.2023	Water Conservation Technique	PF	1	19	6	25
26.04.2023	Crop production through management of rain water	RY	1	14	8	22

7.6. Utilization of hostel facilities (Month-Wise) during 2023

Accommodation available (No. of beds):

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
May	Vermicomposting	6 days	15	5 days	
Total		**6**	**15**	**5**	

Note: (Duration of the training course X No. of trainees)=Trainee days

8. FINANCIAL PERFORMANCE

8.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
KVK Khawzawl(PFMS)	State Bank of India	Khawzawl	37041217638
KVK Khawzawl (Revolving Fund)	State Bank of India	Khawzawl	37958564078

8.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2023

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2024
	Amount	Amount	Amount	Amount	
		1.10855		1.10855	
TOTAL		**1.10855**		**1.10855**	

8.3 Utilization of KVK funds during the year 2023

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	145.35481	145.35481	130.71935
2	Traveling allowances	3.60	3.60	3.60
3	Contingencies	31.30	31.30	31.30
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
	Working Capital			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
K	KSHAMTA	0.80	0.80	
L	NARI	0.80	0.80	
M	HRD	0.50	0.50	
TOTAL (A)		182.35481	182.35481	167.71935
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			

3	Vehicle (Four wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**182.35481**	**182.35481**	**167.71935**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance with KVK (in lakh)
2021	140015	84381	68000	224396
2022	224396	48158	38000	234554
2023	234554	175628	58924	351258

Note: No KVK must leave this table blank

8.5 Please include information which has not been reflected above.

(Write in detail)

8.6 Constraints and Suggestion (Provide point-wise if any, for recommendation)

(a) Administrative

- ❖ No define guidelines for the services benefit and lack of promotion channel for KVK staff.
- ❖ Unavailability of pension and gratuity benefits and medical benefits for KVK staff.
- ❖ Over burden by reporting to host department, ICAR and District authorities.
- ❖ Shortfall in modernization and up gradation of office buildings, assets and staff quarters
- ❖ Overlapping of KVK activities with that of the host department, other assigned activities besides mandated activities of KVK
- ❖ Lack of opportunities for upgrading knowledge as no provision of full fledge library, subscription of journal etc.
- ❖ Lack of man power for administration establishment and effective and smooth functioning of KVK.
- ❖ Delay in recruitment of vacant post.

(b) Financial

- ❖ Non availability of funds for building (Administrative, Staff quarter, Farmer Hostel etc) maintenance and renovation.
- ❖ Limited fund for Farm development and establishment of demonstration unit.
- ❖ No provision of fund for boundary wall fencing, farm approach and internal roads.
- ❖ Insufficient fund for conducting training, trials and demonstration.
- ❖ Insufficient fund for contingencies, transport allowances etc.

(c) Technical

- ❖ Untimely supply of inputs
- ❖ Lack of reliable and updated statistical data of the district.
- ❖ Low risk and decision making abilities of the farmers to take up new technologies.
- ❖ Shortage of transportation facilities for conduct of various mandated activities.
- ❖ Lack of Quarantine post to check diseases and pest etc.

- ❖ Lack of infrastructure facilities for livestock production and research activities.
- ❖ Insufficient skilled man power for Laboratory works
- ❖ Insufficient, proper and improved facilities for Information & Communication Technology.

SUGGESTION:-

(a) Administrative

- ❖ Regularization of KVK staff at par with the State Govt. employees or ICAR employees.
- ❖ Development of define guidelines for pension, medical facilities and other services benefit at par with ICAR or State/Central Govt. employees.
- ❖ Minimize the workload and overburden of KVK by giving priority to mandated activities by removing overlapping of KVK activities with that of the host department, other assign activities besides mandated activities.
- ❖ Treatment of KVK staff at par for the purpose of privileges, amenities and facilities permissible to the employees of the host department
- ❖ Increase man power of non-technical staff to minimize the workload and burden.
- ❖ Renovation of Staff Quarters, Farmers' Hostel and Admin building at the earliest

(b) Financial

- ❖ Provision of funds for Building maintenance and renovation.
- ❖ Additional fund for farm works, demonstration unit and IFS model
- ❖ Fund for farm infrastructure facilities such as farm fencing, electrification, go-downs, farm approach/internal roads and water connection.
- ❖ Additional fund for training, exhibition, Kisan Mela, OFT, FLD etc.
- ❖ Provision of fund for medical reimbursement.
- ❖ Provision of fund for employee allowances admissible to ICAR or state/central employees.

(c) Technical

- Establishment of Farmers Service Centre, Information support system and plant nutrition diagnostic Centre with advance equipment.
- Establishment of disease free seedling production unit, Farm Shed, Go-down, working shed for seed and planting materials production.
- Establishment and development of model organic farm and herbal garden at KVK Demonstration Farm/unit.
- Provision of boundary wall fencing and development funds for establishment and development of farm approach roads and internal roads with farm electrification.
- Establishment of animal health clinic.
- Installation of KIOSK at block and village level
- MIS

(Dr.MALSAWMKIMI)

Senior Scientist and Head

KVK Champhai District