PROFORMA FOR ANNUAL REPORT OF KVKS 2022 (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 Mamit District, Lengpui	0389-2573352	0389-2573338	KVKmamit23@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture (R&E)	0389-2319025	0389-2315784	mizagri@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Vanlalhruaia Hnamte	Luangmual	+919436152189	Hruaiahnamte111@gmail.com

1.4. Year of sanction: 2005

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/ OBC/ Others)
1	Sr. Scientist & Head	Dr. Vanlalhruaia Hnamte	Senior Scientist & Head	Agro- Forestry	15600-8000 (GP)	32790	24.07.2014	ST
2	Subject Matter Specialist	Dr. C. Rinawma	Scientist (Animal Science)	Animal Science	15600-5400 (GP)	22850	22.4.2008	ST
3	Subject Matter Specialist	Dr. Rohit Shukla	Scientist (Horticulture)	Horticulture	15600-5400 (GP)	22850	22.4.2008	Gen
4	Subject Matter Specialist	Dr. Vanlalhruaia	Scientist (Plant Protection)	Plant Protection	15600-5400 (GP)	22850	22.4.2008	ST
5	Subject Matter Specialist	Dr. Rebecca Lalmuanpuii	Scientist (Agro-Forestry)	Agro- Forestry	15600-5400 (GP)	22020	05.6.2009	ST
6	Subject Matter Specialist	Rualthantluanga Pachuau	Scientist (Fisheries)	Fisheries	15600-5400 (GP)	15600	23.2.2018	ST
7	Subject Matter Specialist	Mary Lalfakzuali	Scientist (Soil Science)	Soil Science	15600-5400 (GP)	15400	3.9.2022	ST
8	Programme Assistant	Biakhlupuii Chenkual	Programme Assistant	Home Science	9300-4200	14670	09.11.2009	ST
9	Computer Programmer	K. Lalramchama	Computer Programmer	B.A	9300-4200	15240	9.6.2009	ST
10	Farm Manager	K. Zohmingliani	Farm Manager	Agriculture	9300-4200	15240	22.4.2008	ST
11	Superintendent / Accountant	Lalrinchhana Sailo	Accountant / Superintendent		9300-4200	15240	22.4.2008	ST
12	Stenographer	B.Laldinpuii	Stenographer	B.A	5200-2400 (GP)	10890	29.2.2008	ST
13	Driver	Lalchuailova	Driver	Class X	5200-2000 (GP)	8880	29.2.2008	ST
14	Driver	Lalchungnunga	Driver	Class X	5200-2000 (GP)	8880	29.2.2008	ST
15	Supporting staff	P.C.Lalthanpuii	Supporting staff	Class X	4440-1300 (GP)	6890	10.7.2008	ST
16	Supporting staff	Laltanpuia	Supporting staff	Class X	4440-1300 (GP)	6890	10.7.2008	ST

	Total	16						

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 12.5 ha

b. Total cultivable land with KVK (in ha): 10.5 ha.

c. Total cultivated land (in ha): 8.5 ha.

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	2.5
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i.Cereal ii.Pulses (Blackgram, Greengram, Field pea) iii. Toria	2.5
4.	Under vegetables	1.0
5.	Orchard/Agro-forestry	2.5
6.	Others (specify)	2.0

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	8.3.10	550	54,22,000.00	NA	NA	NA
2.	Farmers Hostel	ICAR	10.3.08	297.87	35,86,756.00	NA	NA	NA

3.	Staff Quarters (6)	ICAR for 6 Quarters and State Govt. for 4 quarters	1.6.08	600	51,00,000.00	NA	NA	NA
4.	Demonstration Units (2)	ICAR	1.6.08		NA	NA	NA	NA
5	Fencing							
	Rain Water harvesting system							
	Threshing floor							
	Farm godown							

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	MZ-01/ P 2675	2017	Purchased by Directorate of Agriculture (R&E), Govt. of Mizoram		Good condition

C) Equipments & AV Aids

Name of the equipments	Year of purchase	Cost (Rs.)	Present status
Ricoh Aficio MP 1600LC	2012	1,54,000.00	Not in good condition

Laser Printer (HP Laser Jet-1020+ Sl. No. VNC3760857)	2008	45,00.00	Good Condition
Speaker UMAX Model-UPB-1400FM	2008	1,500.00	Good Condition
CPU 55274-692-4406923-23495	2008	14,000.00	Good Condition
LCD Monitor BenQ G 700AD Model ET-0005-B	2008	8,800.00	Good Condition
UPS Supercomp SEV Fortune 600 B080515-10307	2008	2,000.00	Good Condition
V-SAT (HCIL)	2009	1,00,000	Disconnected/ not in use
BSNL Broad band	2010	NA	Replaced with Zonet Jio fibre (FTTH) on 2022
Projector Vivek (DLP Projector) Model.D325MX Sl.No.WD325MX7520162	2008	87,000.00	Not in good condition, need replacement
Handy Video Camera Sony 4.0MP Model No.HDR-SRIOEN50, 799807	2008	75,000.00	Good Condition
UPS Supercomp No.B080603-7519	2008	1,800.00	Good Condition

Plain Paper Fax with Copier Panasonic Model No.KX-FP701CX, KX-FP702CX	2008	9,996.00	Not in good condition, need replacement
Wireless Amplifier AHUJA WA-320 No.08011080	2008	12,600.00	Need replacement
Dynamic Wireless Microphone, AHUJA AWM-322	2008	460.00	Need replacement
Samsung ML-1640 Series Printer	2010	5,000.00	Need replacement
QS250 Speakers	2010	15,500.00	Need replacement
AC Voltage Stabilizer Model: VR45, Sr No. : 17569	2010	4,000.00	Need replacement
HP Office jet 3608 All-in-One (Fax-Print-Scan-Copy)	2010	NA	Need replacement
EPSON Stylus Office T1100, Model No: B322A	2010	20,000.00	Need replacement
Amplifier Proton Power Mixer POD 650	2010	2,214.00	Need replacement
Microphone ,SHURE PG48-XLR-B	2010	6,000.00	Good Condition
Microphone Professional, MIPRO M7-103, MR-515, MH-202, Wireless.	2010	NA	Not in good Condition

Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.49ghz, 0.99GB of RAM, Frontech LCD Monitor	2008	NA	Not in good condition
Assemble Computer, Pentium(R) Intel Dualcore CPU-E5200 2.70ghz, 2GB of RAM, HP LCD Monitor	2010	NA	Good Condition
Lenovo branded Computer , 1GB RAM,2.7ghz	2008	NA	Not in good condition, needs upgradation/ replacement
Assemble Computer Pentium(R) Intel Dualcore CPU-E5200 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	NA	Not in good condition, needs upgradation/ replacement
HP branded Computer, 2.50ghz, 1.99GB of RAM, Benq LCD Monitor	2010	21,500	Good Condition
Speaker Stand QSSAL, No.: 080819011, S.No.: 409 & 420	2010	3,500	Good Condition
Microphone Stand AHUJA BMS – 101, Made in India	2010	1,200	Good Condition
Television Panasonic 29”	2010	NA	Need to repair

Advanced DVD Player with 5.1 ch Samsung DVD- C460	2010	NA	Good Condition

1.8. A). Details SAC meeting* conducted in 2021

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
25.1.2022	Shri. Rohmingthanga Colney, Chairman SAC, Director of Agriculture, Mizoram	1. Animal Science - Cycle to be shortened in view of the shortage of Pork after the outbreak of ASF epidemic. To select soyabean suitable for animal feed. 2. Horticulture – To promote Gerbera cut flower. Disease of Zorin bean and Yellowing of Pumpkin leaves should be studied and Control measures to be disseminated to needy farmers. To include pumpkin variety Arjuna. To include one more variety of Baby corn VL baby corn – 1. To include one more variety of Potato Kufri girdhari which is suitable for the hills To include one more variety of Gerbera from IIHR/IARI. To take up OFT on white flesh dragon fruit. 3. Agroforestry – In Broom grass local variety, the local name	Actions had been taken on all of the recommendations made by the Committee.
	Dr. Vanlalhruaia Hnamte, Member Secretary SCA, Senior Scientist & Head, KVK Mamit district, Lengpui		
	Shri. Vanlalthlamuana, Joint Director, Agriculture, SAC Member		
	Shri. F. Lalmalsawma, Deputy Director, Agriculture, (KVK)		
	Shri. Joseph L.P. Thanga, Forester (Lengpui)		
	Shri. Laldawngliana, Sericulture (Lengpui)		
	Shri. Dr. M. Chinlampianga, DPD (ATMA)		
	Shri. Vanlalzama Demonstrator		
	Smt. Vanramengmawii, President MHIP (NGO)		
	Smt. Sylvia Lalrinzuali, SBI, Branch Manager Lengpui		
	Shri. PC. Lalngaihawma, Farm Manager, (Fisheries), Lengpui		
	Shri. Vanlalkunga, Farmer representative		

		Phiahthir shoul be mentioned specifically and Moringa was choosen as live tree support for Betel vine. To introduce Short duration leafy vegetable in the bamboo plantation. Intercropping of Banana with sesamum should be included. 4. Fisheries – Name of crops and livestock to be incorporate should be mentioned in IFS.	

** 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	Jhum
2	Wet Rice Cultivation (Paddy)
3	Cole crop farming
4	Banana plantation
5	Ginger / turmeric production system
6	Orange production
7	Areca nut plantation
8	Fish farming
9	Fish seed production
10	Integrated backyard livestock farming
11	Intercropping
12	Crop rotation

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

Sl. No	Agro-climatic Zone	Characteristics
1	Humid Sub-tropical hill zone	Soil moisture regime – Udic, hyperthermic prevalent on eastern parts of the district on higher altitudes

2.3 Soil types

Sl. No	Soil type	Characteristics	Area in ha.
1	Alluvial soils	Entisols and inceptisols, mixed, hyperthermic, very deep to deep brown, aquic/fluventicdystrochrypts, broad and narrow valley	32159
2	Sandy soils	Entisols and inceptisols, mixed, hyperthermic, deep to dark yellowish brown, sandy loam, sandy clay, broad and narrow valley	47706
3	Laterite soils	Ultisols, mixed, hyperthermic, dark brown to dark yellowish brown, sandy clay sub surface, well drained, hill side slopes and hill crest/top, moderate erosion, loamy skeletal texture	179606
4	Acid soils	Ultisols, mixed, hyperthermic, strongly acidic horizons, hill side slopes, moderate to severe erosions, cutans are formed, fine loamy texture.	38146

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
A				
1	Rice	3748	4241	11.32
2	Areca nut	3350	2345	7.00
3	Khasi Mandarin	2015	4211	20.90
4	Lime/ lemon	1090	3390	31.10
5	Banana	646	7501	116.12
6	Maize	633	1245	18.75
7	Bitter gourd	530	2772	52.30

2.5. Weather data 2022

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January	0.18	25.77	9.00	79.1
February	0	28.26	9.91	66.57
March	1.47	33.23	14.64	48.90
April	3.25	34.64	18.05	58.98
May	6.64	33.85	20.63	73.30
June	8.26	31.89	22.18	80.45
July	9.41	31.78	22.44	82.5
August	15.9	31.21	22.24	84.69
September	13.21	32.1	21.54	85.48
October	5.43	31.54	20.68	83.83
November	1.57	28.23	14.4	81.87
December	1.98	25.39	11.41	85.47

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

Category	Population	Production	Productivity
Cattle			
Crossbred	135	Milk-147 ton	7.323 lt/cow
Indigenous	1972	Milk-224 ton	1.01 lt/cow
Buffalo	208	Milk-16 ton	0.975 lt/buffalo
Sheep			
Crossbred	75	NA	NA

Indigenous	2	NA	NA
Goats	1780	5 ton of meat	8.651 kg/goat
Pigs			
Crossbred	17545	204 ton of meat	92.141 kg/ pig
Indigenous	5806	NA	NA
Rabbits	92	NA	Na
Poultry			
Hens	31233	NA	NA
Desi	50092	22 lakh egg produced	80 nos./hen/ season
Improved	14627	4 lakh egg produced	205 nos./hen/ season
Ducks	104	NA	NA
Turkey and others	4	NA	NA
Fish	828	6020q	7.27 q/ha
Marine	*NA*	NA	NA
Inland	*NA*	NA	NA
Prawn	*NA*	NA	NA
Scampi	*NA*	NA	NA
Shrimp	*NA*	NA	NA

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2022)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem Identified	Identified thrust area
1	W.Phaileng	W.Phaileng	W.Phaileng, Chhippui, Lallen, Saithah, Phuldungsei, Pukzing, Marpara, Andermanik, Rajivnagar, Tuipuibari, Damparengpui, Teirei, Khawhnai, Parvatui, Tuirum	Paddy, Maize, Ginger, Turmeric, Chilli, Arecanut, Khasi mandarin, Vegetables, Oil Palm, Tree bean, Citrus, Livestock, Fishery, Bee keeping	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post-harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post-harvest management, value addition, introduction of improved production technologies, integrated farming system
2	Reiek	Reiek	Bawngthah, Kanghmun, Khawrihnim, W.Lungdar, Ailawng, Reiek, Rulpuihlim, Tuahzawl, Chungtlang, Rawpuichhip, Hmunpui, West Serzawl, Lengpui, Lengte, Nghalchawm	Paddy, Maize, Ginger, Turmeric, Arecanut, Citrus, Vegetables, Jatropha, Khasi Mandarin, Livestock, Fishery, Beekeeping	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post-harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post-harvest management, value addition, introduction of improved production technologies, integrated farming system

3	Zawlnuam	Zawlnuam	Kanhmun, Moraichera, Zamuang, Rengdil, Lushaicherra, Zawlpui, Hriphaw, Saikhawthlir, Chhuhvel, Zawlnuam, Bawrai, Mamit town, N.Sabual, Pathiantlang, Suarhliap, Nalzawl, Liandophai, Darlak, Kawrtethawveng, Tuidam, Kawrthah, Serhmun, Bunghmun	Paddy, Maize, Ginger, Turmeric, Vegetables, Arecanut, Oil Palm, Khasi mandarin, Banana, Citrus, Livestock, Fishery	Scientific know how, quality breed, quality seeds and planting materials, feed, medicines, soil erosion, acidic soil, water scarcity, citrus decline, pests, paddy leaf roller, post-harvest management and marketing problems, irrigation, communication problems.	Training on scientific agriculture and allied, introduction of quality seeds and planting materials, disease management, post-harvest management, value addition, introduction of improved production technologies, integrated farming system
4						
5						
6						

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2022

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
Agroforestry	12	12	12	12	20	20	20	20

Horticulture	15	15	15	15	35	35	35	35
Fishery	6	6	6	6	13	13	13	13
Home Science								
PP								
A.Sc	9	9	9	9	7	7	7	7
Total	42	42	42	42	75	75	75	75

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								
Rural youth								
Extn. Functionaries								
Hort								
Farmers								
Rural youth								
Extn.								

Functionaries								
PP								
Farmers								
Rural youth								
Extn. Functionaries								
Total								

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

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2022

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.
	Varietal evaluation	Pumpkin Potato	Low productivity of local variety Low productivity in traditional system	1.Assessment of varietal performance of different varieties of pumpkin for higher income 2.Assessment of different varieties of potato for higher income	-	1.Cultivation of Pumpkin 2.Cultivation of Potato	-	-	Seed seedling Manure & fertilizer PP chemicals
	Integrated Nutrient Management	Mizo chilli Baby corn	Low productivity in traditional system Low productivity of baby corn	1.Improved package of practices of bird's eye chilli for increasing farmers' income 2. Cultivation of baby corn by using organic source of nutrient	1.Popularization of French bean variety Zorin (MZFB-48) for nutritional security & higher production 2.Popularization of cultivation of garden pea by using organic source of nutrient	1.Economic cultivation of Mizo chilli 2.Cultivation of F.Bean 3.Cultivation of G.pea under Organic source of Nutrient	-	-	Seeds, Seedling Manure and fertilizer Seeds Manures bio-fertilizer Rock phosphate

	Integrated crop Management				1.Cultivation of high value crop Dragon fruit to increase farmer's income 2.Popularization of multiple disease resistant tomato hybrid, Arka Abhed (H-397) for higher income	1.Dragon fruit cultivation 2.Cultivation and Management of Disease on Tomato	-	-	Cuttings, Nutrient Seeds, Seedlings, Manure
	Irrigation managements	Gerbera	Low productivity due to disease incidence	Cultivation of Gerbera under protected condition for higher income		Cultivation of Gerbera	-	-	Seed seedlings Manure & fertilizer PP chemicals
	FLD on protected cultivation of round the year vegetable cultivation								
	Introduction of MPTs in newly Developed Systems	Bamboo	Non practiced of scientific cultivation in the district	Cultivation of Bamboo species in an abandoned jhum land for enhancing economic production and afforestation of abandoned jhum land		Scientific cultivation of Bamboo			Supply of planting materials, Manure, etc.

	Intercropping	Banana, Soyabean, Sesamum	Non practiced of intercropping with Banana in the district	Intercropping of Banana with Soyabean and Sesamum		Intercropping system under Agroforestry	-	-	Seed, seedlings Manure & fertilizer PP chemicals
	High value crop	Moringa, Betelvine, Black pepper	Supplementary income	Cultivation of Betel vine and Black pepper with Moringa under Agroforestry system of Mizoram		Cultivation of Betel vine and Black pepper with Moringa (Drumstick) under Agroforestry system of Mizoram	-	-	Seed, seedlings Manure & fertilizer PP chemicals
	Secondary forestry diversification (Bamboo/ Broomgrass etc.)	Broom	-	-	Popularization of systemic cultivation of Broom grass on abandoned jhum land for upliftment of rural areas under Agroforestry system of Mizoram	Cultivation of Broom grass	Economic planting of Broom grass	-	Supply of planting materials, Manure, etc
	Intercropping (Tree bean + Broom grass + Maize (Green cob)	Broom, Maize, Arhar, Soyabean, cowpea Tree bean, Turmeric	Soil Erosion	Land use Model for Sustainable Production and Climate Resilience in Mizoram	Intercropping of Tree bean with Turmeric under Organic Management	ICAR three tier sytem Training on Intercropping	ICAR 3-Tier system	-	Seed, seedlings Manure & fertilizer PP chemicals
	Fish breeding								

	Feed-based carp polyculture system	Silver barb			Incorporation of Silver barb Puntius gonionotus (bleeker) in feed-based carp polyculture system to increase farm production	Silver barb *Puntius gonionotus* (bleeker) in feed-based carp polyculture system to increase farm production	-	-	Fish seed
	Pond management								
	Feeding management	Pig	Nutrient Management		Demonstration on supplementation of AAUVETMIN in traditional pig feed	Training & Demonstration on supplementation of AAUVETMIN in traditional pig feed			Supply of medicine
	Popularization IFS	Fish, Crop, Livestock			Promotion of Sustainable farming system (IFS)	Integrated Farming System	-	-	Seed, seedlings Manure & fertilizer PP chemicals
	Goatery Popularization of improved sow & boar	1.Goat Pig 2. Pre-weaning Mortality	1.Goat – fish integrate farming 2. Assessment of Creep Feeding to reduce pre-weaning mortality and to enhance growth rate of piglets	High investment in bigger animals associated	-	1.Goat – fish integrate farming 2. Creep Feeding to reduce pre-weaning mortality and to enhance growth rate of piglets	High investment in bigger animals associated		

	Introduction of layer birds	Kadakhnath	Stagnant layer poultry marketing in Mamit District	Popularization of Kadaknath layer poultry in backyard system of Mamit District		Kadaknath layer poultry in backyard system	Kadaknath layer poultry in backyard system	-	Supply of birds
	Fodder Introduction	Soyabean	Fodder production		Fodder - Soyabean	Cultivation and Feeding management	-	-	Supply of planting materials, Manure, etc
	Soil management								
	Soil microbes (beneficial)								
	Soil management								
	Soil biology (BGA/ Azolla)								

3.1 Achievements on technologies assessed and refined during 2022

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										
Seed / Plant production										
Weed Management										
Integrated Crop Management					1			1		2
Integrated Nutrient Management					1				1	2
Integrated Farming System										
Mushroom										

cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management					1		1			2
Resource conservation technology				1						1
Small Scale income generating enterprises										
TOTAL				1	3		1	1	1	7

* *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					1		1	2
Disease of Management		1			1			2
Value Addition								
Production and Management				1			1	2
TOTAL		1		1	2		2	6

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)
						Parameters	A					
1	Improved package of practices of bird's eye chilli for increasing farmers' income	Low productivity in traditional system	Seed rate : 500 g/ha for nursery raising Seed treatment with Trichoderma @ 10 g per kg 40-45 days old seedling transplanted Spacing 60 X 45 cm 2 weeding/ hoeing Nutrient Management :10 t FYM and 100 :50:50 kg N:P: K per ha	Mizo chilli	3	1. Days to flowering 2. No.of fruits per plant 3. Fruit length (cm) 4. Yield (t/ha)	58 73 2.4 1.91			Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	2.11:1
2	Assessment of varietal	Low productivity	TO1 : Kashi Shishir	Pumpkin	3	1. Vine length	286	186	302	Farmers re willing	More trials are required	2.86:1

	performance of different varieties of pumpkin for higher income	in local variety	(VRPKH-01) F1 Hybrid TO2: Kashi Harit TO3: Arjuna TO4: Framer's local variety Seed rate: 3.5-4.0 kg/ha Seed treatment: Captan @ 2.5 g or Thiram 3.0 g/kg of seed Fertilizer: N.P.K. ratio 100:80:60 and 2 foliar spray of WSF (water soluble fertilizer) 19:19:19 (NPK) @ 4.0 g/l of water at 25 and 35 days after sowing			(cm) 2. Number of fruits per vine 3. Fruit weight (kg) 4.Yield (t/ha)	3.46 2.56 24.5	3.12 2.25 23.6	3.47 2.35 23.6	to take up the technology	under different locations of Mamit district	2.74:1 2.85:1
3	Cultivation of baby corn by using organic	Low productivity of baby corn	Variety : VL-42 TO1 *: Application FYM 10t+	Baby corn	3	1. No.of cobs per plant	2.25			Farmers re willing to take up the	More trials are required under different locations of	2.73:1

	source of nutrient		Vermicompost 1t/ ha & seeds will be inoculated with Azospirillum /Azotobacter and PSB @20g/kg seed. TO2: RDF (120:60:60 NPK kg /ha) TO3 Farmers practices			2. Cob wt. (g) 3. Yield (q/Ha)	4.87 8.40			technology	Mamit district	
4	Cultivation of Gerbera under protected condition for higher income	Low productivity due to disease incidence	Variety: Arka Nesara* TO1 : Cultivation of Gerbera under Protected condition TO2: Cultivation of Gerbera in open field condition Soil sterilization with 2% formaldehyde. Planting density and spacing: 8-10 plants/sqm or	Gerbera	3	1.Flower stalk length (cm) 2.Diameter of flower head (cm) 3.Days to appearance of first flower 4.Yield (No.of cut flowers/100m	38.20 10.21 50 11200			Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	3.84

			30 X 30 cm. Application of FYM 2.5 kg/sqm. During vegetative stage application of 19:19:19 NPK @ 1.5 g/l of water every two days & during flowering applied NPK 15:5:35 at the rate of 1.5 g/l of water/day.									
5	Assessment of different varieties of potato for higher income	Low productivity in traditional cultivation system	Variety : Kufri Garima, Kufri Jyoti Farmer practice : potatoes purchased from grocery shop use for seeds	Potato	3	1.No.of tubers/plant 2.Ave. wt. of tuber (g) 3.Yield (t/ha)	Kufri garima 15.10 398 23.22	Kufri jyoti 13.31 372 21.70		Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	2.63 2.46
6	Cultivation of Bamboo species in an abandoned jhum land for enhancing economic production	Non practiced of scientific cultivation in the district	Spacing: 5X5m in line for edible shoot production & 10X10m for timber production Seedling rate :(500 pl/ha.) & (100 pl/ha.)	Bamboo	3	1.Survival % 2.Yield of edible bamboo shoot /ha. 3.Yield of timber/ha.	1.80% 2.To be harvested only after two			Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	1:3.8

	and afforestation of abandoned jhum land		respectively DOT : Bamboo - 1st Week of June, 2020, 1st wk of June, 2021, 2022. Duration : 2-3 years				years 3.To be harvested only after two years					
7	Intercropping of Banana with Soyabean and Sesamum	Non practiced of intercropping with Banana in the district	Spacing - Banana: 3 X 3m between the planting rows and within rows following contour lines on slopes to decrease soil erosion. Soyabean: Two cropping season – Kharif: 45 – 60 cm X 5 cm, Spring: 30 – 45 X 5 cm Sesamum: 45 – 60 X 10 – 15 cm for Kharif Duration : 1.5	Banana, Soyabean, Sesamum	3	1.Survival % 2.Yield of banana/ha. 3.Yield of Soyabean/ha. 4.Yield of Sesamum/ha.	1.80% 2.40 ql/ha. 3.12 ql/ha. 4. 200 ql/ha.			Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	1:9.8

			yrs Farmer's Practice: Random planting									
8	Land use Model for Sustainable Production and Climate Resilience in Mizoram	Soil Erosion	Broom grass are planted in the upper portion of a slopy land at a spacing of 2m X 2m. Hedge rows (Arhar) at a spacing of 5ft X 1.5ft are planted in contours for Soil Conservation and generation of green leaf manure. Maize sown during kharif and soyabean during Rabi season. Farmer's practice: Non judicious use of slope.	Broom grass, Maize, Arhar, Soyabean, Cowpea	3	1.Productivity 2.Soil organic carbon	Broom grass equivalent yield - 24.10 q/ha 0.75 2.09:1			Farmers re willing to take up the technology	More trials are required under different locations of Mamit district	2.09:1
9	Cultivation of Betel vine and Black	Supplementary income	Spacing: Following the standard/support	Moringa, Black pepper,	3	1.Survival % 2.Productivity	1.80% 2.To be			Farmers re willing to take up	More trials are required under different	

	pepper with Moringa under Agroforestry system of Mizoram		ing trees Manuring: NPK in the proportion of 50:25:25 g/tree/year Top dressing @ 3 split doses (Ist at 15 days after lifting the vines, 2nd and 3rd dose at 40-45 days intervals)	Betel vine		per acre	harvested only after 1 yr.			the technology	locations of Mamit district	
10	Introduction to breeding of Ornamental Fishes	Seasonal breeders	Breeding of Ornamental fishes Details: 1.Procurement of Ornamental Fishes 2. Practicing different breeding and rearing techniques	Guppy, Angelfish, Goldfish	3	Survival- 85 % Adaptability- 80% Productivity – very good				Highly profitable ii) Easy and convinient	More trials are required under different locations of Mamit district	1:2.8
11	Incorporation of Amur Carp (Cyprinus carpio rubrofuscus	Low income	Incorporation of Amur Carp (Cyprinus carpio rubrofuscus) in feed-based carp polyculture	Amur carp	3					Farmers re willing to take up the technolog	More trials are required under different locations of Mamit	

	) in feed-based carp polyculture system to increase farm production		system to increase farm production							y	district	
12	Goat – fish integrate farming	High investment in bigger animals associated with more lobour cost	Goat – fish integrate farming	Goat	3	Age at puberty : 350 days Age of conception : 630 days Age at first kidding: 780 days Gestation period : 152 days				Farmers re willing to take up the technolog y	More trials are required under different locations of Mamit district	Rearing of Beetal buck with local Doe: BC ratio : 1.14:1 Farmers practice – BC Ratio : 1.12:1
13	Popularizat ion of Kadaknath layer poultry in backyard system of Mamit District	Stagnant layer poultry marketing in Mamit District	Popularization of Kadaknath layer poultry in backyard system of Mamit District	Poultry	3	Age at puberty : 138 days Age at first laying : 152 days Egg production : 98 eggs in 10 month per hen				Farmers are reluctant to continue since egg productio n is on par with local poultry and the	More trials are required under different locations of Mamit district	Improved 1.45:1 Farmers practice 1.29:1

										unavailability of any hatchery unit does not make it any easier.		
14	Assessment of Creep Feeding to reduce pre-weaning mortality and to enhance growth rate of piglets	Pre-weaning Mortality	Assessment of Creep Feeding to reduce pre-weaning mortality and to enhance growth rate of piglets	Pig	3	Body weight gain 2.3kg at 1st month to 8.5-9kg after attaining 42 days of age Marketable live weight (45 days)- 9 kg						Improved 1.32:1 Farmers practice 1.29:1

**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 2022

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	Garden pea Pusa Pragati	Cultivation of garden pea by using organic source of nutrient Variety: *Pusa pragati* Spacing : 30cm X10 cm Seed rate : 80-100 kg/ha Seed treatment with @20g Rhizobium culture/kg seeds Mixed in jaggy solution and dried in shade Manure application: Vermicompost@ 2.5 t/ha	4	10	2
2	French Bean Zorin (MZFB-48)	Variety : Zorin (MZFB-48) Spacing: 60 X 10 cm Seed treatment with carbendazim@2g/kg of seeds FYM:20t/ha N:P:K: 90:70:50	4	10	2
3	Tomato Arka abhed	Popularization of multiple disease resistant tomato hybrid, Arka Abhed (H-397) for higher income. Resistant to leaf curl, bacterial wilt, early & late blight	4	10	2
4	Dragon fruit (Red flesh)	Distance: 3m.X 3m. Training Structure: The concrete pillars using tyres as base structure Growing media: Soil enriched with organic inputs like farmyard	4	5	1.5

		manure, coir compost and vermicompost along with bio- fertilizers. Planting of 4 rooted cuttings around each concrete pillar Types : Red flesh (*Hylocereus costaricensis*)			
5	Broom grass (Var. Phiahthir)	Spacing: 3 X 3 mt row to row & plant to plant in contour lines or on the bunds (1111 plt in 1 ha.) during May to June. Manuring: 10 gm of FYM per pit. Farmer's Practice: Random planting.	5	10	2
6	Tree bean, Turmeric Lakadong	Treatment of Rhizome with Trichoderma harzianum @ 25gm/kg , Organic Nutrient management - FYM/Compost as basal dose @ 20 t/ha. during land preparation, FYM + Neem cake mixture @ 100 gm/pit during time of planting, Mulching with green if necessary	4	10	2
7	Silver barb	Procurement of species Introduction of species in indigenous polyculture ponds Sampling for effectiveness	5	10	-
8	Fodder Soyabean MAUS8	Fodder - Soyabean	1	6	1
9	Local and Yorkshire crossed	Demonstration on supplementation of AAUVETMIN in traditional pig feed	2	6	-

** 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 (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					

c. Performance of FLD on Crops during 2022

Sl. N	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.)

o.				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	Garden pea	Organic management	2	84.42	73.95	14.16	92.65	79.34			81300	253260	171960	3.12	76800	221850	145050	2.89
2	F. Bean	Varietal evaluation	2	87.64	81.28	7.82	92.25	84.85			78600	262920	184320	3.35	78600	243840	165240	3.10
3	Tomato	IDM	2	310	276	12.3	330	284			114500	372000	257500	3.25	115600	331200	215600	2.87
4	Dragon fruit	High value crop	2	10.50	9.68	8.47	10.85	9.95			250000	840000	590000	3.36:1	250000	774400	524400	3.10:1
5	Broom grass	Reclamation of Forest area	2	66	57	11.86	67	65			35000	66000	31000	1.88:1	35000	57500	22500	1.6:1
6	Tree bean & Turmeric	Intercropping	2	130	110	18.18	150	100			180000	286000	167200	2.40	166000	264000	145200	2.23

*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	2	6th December, 2022 25th August, 2022		21 18	21 18	
2	Farmers Training	9	27th – 31st March, 2022 7th – 9th June, 2022		45 37	45 37	
3	Media coverage	1	29th November, 2022				
4	Training for extension functionaries	2	10th October, 2022 2nd August, 2022		8 10	8 10	
5	Any other (Pl. specify)						
	Total				139	139	

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/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	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	Soyabean	Fodder production	Foddre soyabean	6	1	5 kg/farmer	Urea : 45kg/ha SSP: 375kg/ha MOP: 70kg/ha Seed arate: 75kg/ha Against yellow mosiac disease : Dimethoate	Urea : 45kg/ha SSP: 375kg/ha MOP: 70kg/ha Seed arate: 75kg/ha Against yellow mosiac disease : Dimethoate												

							30EC @1 in 800-1000 lt per ha Against insect/ pest: Dichlorvos 100EC @ 0.5ml per lt of water	30EC @1 in 800-1000 lt per ha Against insect/ pest: Dichlorvos 100EC @ 0.5ml per lt of water											
2	Local and yorkshre crossed	Nutrient Management	Demonstration on supplementation of AAU VET MIN in traditional pig feed	6	2	1 per farmer	Fed to 14 day old piglet Deworming at 40 day olds Weight gain during 30, 50			Average daily gain (kg/pig/day) @ of 0.340 gm and FCR @ of 3.8 within 30 and				14,115/-	1.8:1			13,800/-	1.6:1	The farmers are willing to take up the technology.

							and 80 day old pigs			80 days of feeding										

(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	Silver barb	Incorporation of Silver barb	Incorporation of Silver barb Puntius gonionotus (bleeker) in feed-based carp polyc	2	10	2000/ha.	34	32	5.88			30000	48120	18120	1.6	30000	45560	15560	1.51	Framers are willing to adopt the technology

			ulture system to increase farm production																

** *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/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	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	

** *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

**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 2022

**(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	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Plant Protection	Mushroom	Mushroom cultivation	14th -19th November, 2022	6	KVK	Farmer	-	-	-	4	18	22	4	18	22
Agroforestry	Intercropping	Intercropping	23rd – 27th May, 2022	5	KVK	RAWE	-	-	-	10	12	22	10	12	22
Horticulture	Dragon fruit	Post Harvest Management of Dragon Fruit	18th August, 2022	1	KVK	Farmer	-	-	-	10	9	19	10	9	19
Agro-Forestry	Bamboo	Training on Bamboo cultivation	17th November, 2022	1	KVK	Farmer	-	-	-	20	5	25	20	5	25
Animal Science	Piggery	Pig rearing	8th December, 2022	1	KVK	Farmer	-	-	-	25	5	30	25	5	30
Agro-forestry	Broom	Broom cultivation	7th February, 2022	1	KVK	Farmer	-	-	-	15	10	25	15	10	25

Agroforestry	Mushroom	Mushroom cultivation	14th- 19th Febuary, 2022	6	KVK	Rural Youth	-	-	-	4	18	22	4	18	22
Agroforestry	Vermicompost	Vermicomposting	5th -10th September, 2022	6	KVK	Rural Youth	-	-	-	1	14	15	1	14	15
Animal Science	Poultry	Poultry rearing	13th-19th June, 2022	6	KVK	Farmer	-	-	-	10	12	22	10	12	22
Plant protection	Mushroom	Mushroom cultivation	23rd-28th May, 2022	6	KVK	Rural Youth	-	-	-	10	12	22	10	12	22
Soil Science	Vermicompost	Vermicomposting	18th-22nd April, 2022	6	KVK	Farmer	-	-	-	10	12	22	10	12	22
Plant Protection	IPM	Training on safety use and handling on agriculture chemicals	13th October, 2022	1	KVK	Farmer	-	-	-	18	12	30	18	12	30
Fisheries	IFS	IntegratedFarming System	26th May, 2022	1	KVK	Farmer	-	-	-	22	8	30	22	8	30
Animal Science	Piggery	Pig rearing	22nd September, 2022	1	KVK	Farmer	-	-	-	28	2	30	28	2	30

Animal Science	Poultry	Poultry Farming	29th September, 2022	1	KVK	Rural youth	-	-	-	15	15	30	15	15	30

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	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agro-forestry	Dialdawk	Broom cultivation	18th August, 2022	1 day	Dialdawk	Farmer	-	-	-	17	13	30	17	13	30
Fisheries	Lengpui	Integrated Farming System	15th December, 2022	1 day	Lengpui	Farmer	-	-	-	20	10	30	20	10	30
Plant protection	Lengpui	Integrated pest management in vegetable crops	21st July, 2022	1 day	Lengpui	Farmer	-	-	-	12	18	30	12	18	30
Agro-forestry	Rulpuihlim	Broom cultivation	17th February, 2022	1 day	Rulpuihlim	Farmer	-	-	-	15	10	25	15	10	25
Agro-forestry	Dialdawk	Betel vine & Black Pepper cultivation	22nd July, 2022	1 day	Dialdawk	Farmer	-	-	-	16	14	30	16	14	30

Horticulture	Dialdawk	Fruit crop propagation	6th July, 2022	1day	Dialdawk	Farmer	-	-	-	8	22	30	8	22	30
Fisheries	Lengpui	Demonstration of carp hatchery	5th July, 2022	1 day	Lengpui	Farmer	-	-	-	5	-	5	5	-	5
Agro-Forestry	Kawrthah	Arecanut and broom cultivation	8th July, 2022	1day	Kawrthah	Farmer	-	-	-	50	44	94	50	44	94
Fisheries	Dialdawk	IFS	12th August, 2022	1 day	Dialdawk	Farmer	-	-	-	12	13	25	12	13	25
Animal Science	Dialdawk	Piggery rearing	17th May, 2022	1day	Dialdawk	Farmer	-	-	-	58	22	80	58	22	80
Agro-Forestry	Dialdawk & W.Phaileng	Arecanut and Broom cultivation	11th-12th May, 2022	2days	Dialdawk & W.Phaileng	Farmer	-	-	-	54	40	94	54	40	94
Fisheries	Zawlnuam	IFS	4th May, 2022	1 day	Zawlnuam	Farmer	-	-	-	88	33	121	88	33	121
Agro-Forestry	Lengte	Rabi crop cultivation	9th November, 2022	1day	Lengte	Rural youth	-	-	-	10	5	15	10	5	15
Horticulture	Lengte	Post Harvest management	17th November,2022	1 day	Lengte	Farmer	-	-	-	17	5	22	17	5	22
Fisheries	Reiek	Pond	9th Novembe	1day	Reiek	Farmer	-	-	-	32	30	62	32	30	62

		Management	r, 2022												
Agro-Forestry	Lengte	Intercropping	8th September, 2022	1Day	Lengte	Farmer	-	-	-	18	12	30	18	12	30
Agro-Forestry	Dialdiak	Land Use Management	15th September, 2022	1Day	Dialdawk	Rural youth	-	-	-	12	13	25	12	13	25
Fisheries	Dialdawk	Water Quality Management	22nd September, 2022	1day	Dialdawk	Rural youth	-	-	-	20	6	26	20	6	26
Animal Science	Lengpui	Poultry and piggery Rearing	24th – 28th January,2022	4days	Lengpui	Farmer	-	-	-	200	160	360	200	160	360

(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 (Please Specify with amount of fund in Rs.)
					General	SC/ST	Total		

					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	

*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	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
ON	Farmers	8th – 13th August, 2022	6 days	Agroforestry	KVK	Vermicomposting	-	-	-	1	14	15	1	14	15	MANAGE	0.42 lakhs
ON	Farmers	5th -10th September, 2022	6 Days	Animal Science	KVK	Pig rearing	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs

ON	Farmers	3rd -8th October, 2022	6 Days	Plant Protection	KVK	Mushroom Cultivation	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs
ON	Farmers	11th -16th April, 2022	6 Days	Agroforestry	KVK	Vermicomposting	-	-	-	10	12	22	10	12	22	MANAGE	0.42 lakhs

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 2022

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.	**Advisory services**	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2022	1307				825	482	1307				825	482	1307

2.	Diagnostic visit	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2022	455				336	142	478				336	142	**478**
3.	Field day	Rice, Protected cultivation	2022	2				30	15	45	3	2	5	33	17	**50**
4.	Group Discussion	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2022	268				2120	702	2822				2120	702	**2822**
5.	Kishan Gosthi									0				0	0	**0**
6.	Kishan Mela	Doubling farmers income	2022	1				321	124	445				321	124	**445**
7.	Film show	IPM, INM, soil health, IDM ,Agro forestry Horticulture	2022	35				398	227	625				398	227	**625**

		Animal Science Fishery, Home Science etc														
8.	SHG formation									0				0	0	**0**
9.	Exhibition		2022	4				530	268	798				530	268	**798**
10.	Scientists visit to farmers fields	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2022	123				200	97	297				200	97	**297**
11.	Plant/ Animal Health camp									0				0	0	**0**
12.	Farm science club									0				0	0	**0**
1.	Ex-trainee Sammelan									0				0	0	**0**
2.	Farmers seminar/ workshop									0				0	0	**0**
3.	Method demonstration	IPM, INM, soil health, IDM ,Agro forestry Horticulture	2022	55				484	237	721				484	237	**721**

		Animal Science Fishery, Home Science etc														
4.	Celebration of important days									0				0	0	**0**
5.	Exposure visits									0				0	0	**0**
6.	Electronic media (CD/DVD)									0				0	0	**0**
7.	Extension literature	Horticulture, Agro forestry, Fishery, Animal Science, Home Science	2022	10				2654	852	3506				2654	852	**3506**
8.	Newspaper coverage									0				0	0	**0**
9.	Popular articles	Technologies intervention for doubling farmer	2022	1						0				0	0	**0**
10.	Radio talk									0				0	0	**0**
11.	TV talk									0				0	0	**0**
12.	Training manual									0				0	0	**0**

13.	Soil health camp									0				0	0	**0**
14.	Awareness camp									0				0	0	**0**
15.	Lecture delivered as resource person	Horticulture, Agro forestry, Fishery, Animal Science, Home Science	2022	19				247	135	382				247	135	**382**
16.	PRA	Village development	2022	3				73	42	125				73	42	125
17.	Farmer-Scientist interaction	IPM, INM, soil health, IDM ,Agro forestry Horticulture Animal Science Fishery, Home Science etc	2022	14				380	191	571				380	191	**571**
18.	Soil test campaign									0				0	0	**0**
19.	Mahila Mandal Convener meet									0				0	0	**0**
20.	Any other (Please specify)									0				0	0	**0**

21.										0				**0**	0	**0**

3.5 Production and supply of Technological products during 2022

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	
Vegetables	Okra	kamini	1.35	10800			23	36	59
	Tomato	Arka samrat, Arka abhed	.5	20321			15	17	32
									91

A1. SUMMARY of Production and supply of Seed Materials during 2022

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	PULSES		29.6					370	370
2	VEGETABLES		5.35	120800				327	327
3									
TOTAL									697

B. Production and supply of Planting Materials (Nos. in No.) during 2022

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) suppliedced	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
						General		SC/ST		Grand Total
						M	F	M	F	
	Papaya	Surya, Pusa Nanha, Local	2340	2340	Distributed free of cost	-			30	30
	Cabbage	KGM-1, Golden Acre	10000	10000	Distributed free of cost				**87**	**87**
	Tomato	Arka Rakshak	10000	10000	Distributed free of cost					
	Broccoli	Kendi	5000	5000	Distributed free of cost					
	Brinjal	Muktakeshi. Arka Keshav	5000	5000	Distributed free of cost					
	Chilli	Soldier	3000	3000	Distributed free of cost					
	Capsicum	Arka Mohani	2000	2000	Distributed free of cost					

	Arecanut	Mangala	1000	1000	Distributed free of cost				15	15
	Neem		1000	1000	Distributed free of cost				15	15
	Tree bean	Tahlim Local	500	500	Distributed free of cost				20	20
	Cotton seedling	Upland cotton local	500	500	Distributed free of cost				10	10
	Accacia pinnata,	-	300	300	Distributed free of cost				10	10

C. Production of Bio-Products during 2022

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										
1	**Vermicompost**	**-**		**12**	**12000**			**15**		15
BIO PESTICIDES										
1										

D. Production of livestock during 2022

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

						M	F	M	F	
1	Cattle/ Dairy									
2	Goat									
3	Piggery	Yorkshire	4	56			4			
4	Poultry	Rhode island Red	60				6			
5	Fisheries									
6	Duckery	khaki campbell	90				9			
	Total		154				19			

3.6. Literature Developed/Published (with full title, author & reference) during 2022

(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.	"Vegetable production: A survey based study in Mamit district" *International Journal of Agriculture Sciences*, 10 (10), 6015-6017	VANLALHRUAIA HNAMTE, ROHIT SHUKLA, REBECCA LALMUANPUII, VANLALHRUAIA	250	200
2.	Processing and value addition of tomato to avoid spoilage during lockdown	ROHIT SHUKLA, VANLALHRUAIA HNAMTE, REBECCA LALMUANPUII, BIAKHLUPUII CHENKUAL	250	200
3.	A case study on doubling farmers income in Rulpuihlim , Mamit	ROHIT SHUKLA, VANLALHRUAIA, REBECCA LALMUANPUII	250	200
4.	Problem and prospects of agriculture in Mamit district, Mizoram	VANLALHRUAIA HNAMTE, ROHIT SHUKLA, VANLALHRUAIA, RUALTHANTLUANGA PACHUAU, C. RINAWMA	**250**	**200**
TOTAL				
	Technological Intervention for Doubling Farmers' Income in Mamit District, Mizoram Souvenior Krishi Unnati Mela " Rural livelihood improvement options for tribal farmers in Mizoram" at ICAR RC NEH Region, Mizoram Centre, Kolasib, during 28th and 29th January, 2019	R. Shukla, H. Saplalrinliana, C. Rinawma, R. Lalmuanpuii and R. Pachuau		
	Cultivation & Management of Areca nut Package & practices of broom grass cultivation & its management	Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii	400 400	360 342

	Cultivation & its management of Tree bean Mushroom Cultivation Cultivation & its management of bird's eye chilli Kitchen Gardening Integrated farming System Breeding of common carp Protected cultivation of vegetable crops Papaya cultivation	Dr. Rebecca Lalmuanpuii Dr Vanlalhruaia Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Dr. Rebecca Lalmuanpuii Rualthantluanga Pachuau Rualthantluanga Pachuau Dr. Rohit Shukla & K, Zohmingliani Dr. Rohit Shukla & K, Zohmingliani	400 400 400 400 400 400 400 400	332 328 389 382 344 315 321 392
	12		**4000**	**3505**

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

Research Paper in Peer Review Journals

Sl.No.	**Author)s(**	**Title of paper /publication**	**Name of Journal / publisher**	**Volume/ Issue/ ISBN No.**	**Year of publishing**
1.	**Rohit Shukla**,VanlalhruaiaHnamte, Rebecca Lalmuanpuii and Santosh Kumar	Impact of Cluster Frontline Demonstration on Organic Nutrient Management inField Pea in Mamit District, Mizoram, India	Biological Forum – An International Journal	14**(**4**):** 517-520**(**2022**)** ISSN No**. (**Print**):** 0975-1130 ISSN No**. (**Online**):** 2249-3239	2022

2.	**RohitShukla,**VanlalhruaiaHnamte, Santosh Kumar, Rebecca Lalmuanpuii, C. Rinawma, Rualthantluanga Pachuau and Nitin KumarPandey	Impact and Assessment of FLD on Round the Year Vegetable Cultivation Under Shade Net House for Doubling Farmer's Income	Journal of Community Mobilization and Sustainable Development	Vol. 17(3), July-September 2022, 1049-1054	2022
3.	**RohitShukla,**VanlalhruaiaHnamte, Rebecca Lalmuanpuii, Santosh Kumar	Impact of Frontline Demonstration on Organic Nutrient Management in Okra in Mamit District, Mizoram, India	Journal of Plant Development Sciences	14(10): 869-873.	2022
4.	**RohitShukla**, VanlalhruaiaHnamte, Santosh Kumar and Nitin Kumar Pandey	Impact and Assessment of Frontline Demonstration (FLD) Management of Weeds in Pineapple by Plastic Mulch	Asian Journal of Agricultural Extension, Economics & Sociology	*40(11): 314-319, 2022* *ISSN: 2320-7027*	2022
5.	**RohitShukla,**VanlalhruaiaHnamte and Santosh Kumar	Impact of Front Line Demonstration on Yield and Economics of Tomato (*Solanumlycopersicum* Mill.) in Mamit District of Mizoram	International Journal of Plant & Soil Science	34(22): 1745-1750, 2022; ISSN: 2320-7035	2022
6.	**ShuklaRohit**, Ali MdMintul, Vanlalhruaia And Saplalrinliana Henry	Vegetable Production: A Survey Based Study In Mamit District	International Journal of Agriculture Sciences	10(10): 6015-6017.	2018

(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)

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
1	Maize seed, Soyabean seed, Pumpkin seed, etc.	Seeds are mixed with wood ash and placed near the fire place	To prevent the seeds from attack of insect & pest/storage pest

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

3.11 Field activities

i. Number of villages adopted: 27

ii. No. of farm families selected: 18

iii. No. of survey/PRA conducted: 10

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :
1. Year of establishment : 2017
2. List of equipment purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	Flame Photometer		ELICO	1	NA
2	Nitrogen Analyser		Pelican	1	NA
3	Auto Titrator		Titroline	1	NA
4	Centrifuge		REMI	2	NA
5	Photosynthesis system		CID Bioscience	1	NA
6	Plant Canopy Analyser		CID Bioscience	1	NA
7	Co_2 Gas Analyser		CID Bioscience	1	NA
8	PCR Machine		Eppendorf	1	NA
9	Leaf area meter		CID Bioscience	1	NA
10	Refractometer		Metler & Toledo	1	NA
11	Weighing balance		Sartorius	2	NA
12	Bio Safety Cabinet		Thermo Scientific	1	NA
13	Water Distillation unit		Borosil	4	NA
14	Deep freezers		LG, Empro	3	NA
Total					

3. Details of samples analyzed (2022) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized

Soil Samples	260	260	10	
Water Samples	50	50	6	
Plant Samples				
Petiole Samples				
Total	310	310	16	

1. Details of Soil Health Cards (SHCs) (2022)
   a. No. of SHCs prepared: 135
   b. No. of farmers to whom SHCs were distributed: 135
   c. Name of the Major and Minor nutrients analysed: Nitrogen, Phosphorous, Potassium, Soil pH, Conductivity, Soil Moisture
   d. No. of villages covered:10

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	24	2431	23	2033	35	2956			26	2613	21	234	129	10267
Voice only	29	2913	42	4242	28	3045			15	1527	34	457	148	12184
Voice and Text both	0	0	33	330	0	0			0	0	0	0	33	330
Total	53	5344	98	6605	63	6001			41	4140	55	691	310	22781

3.14 Contingency planning for 2022

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				
	Rice – Drought tolerant varieties	**50ha**		**100**	**100**
	Introduction of short duration drought tolerant Maize variety e.g. **PAC-740**	**10 ha**		**50**	**50**
	Introduction of Resource Conservation Technologies	**50ha**		**100**	**100**
	a. Water harvesting etc	**15 ha**		**50**	**50**
	b. Micro irrigation / pipes	**15 ha**		**50**	**50**
	Distribution of seeds and planting materials	**50ha**		**100**	**100**
	Rice CAUR-1/Soybean/ Vegetable	**50ha**		**100**	**100**
	Maize T-**4**	**20 ha**		**50**	**50**
	Any other (Please specify)				
	Custom hiring of farm equipments	**50ha**		**100**	**100**
	Community nursery raising for rice	**50 ha**		**100**	**100**

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
PRRS	200	4	4	500		100	100
PRRS	200	4	4	500		100	100

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)
Scientific cultivation of Tomato, Okra, Cowpea at Lengte village	5	78	1.5 lakh	5.8 lakh
Scientific cultivation of winter vegetables Darlak	2	79	2.0 lakh	6.1 lakh
Value addition at Rulpuihlim village	2	82	1.5 lakh	4.8 lakh
Scientific cultivation of vegetables at Lengpui village	2	80	1.75 lakh	5.7 lakh

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 2022

Name of organization	Nature of linkage
1. Agriculture Department, Mizoram.	**Trainings, State schemes**
2. National Bank for Agriculture & Rural Development (NABARD)	**Funding Agent for Implementation of Project within Mamit District.**
3. Food & Agricultural Organization (FAO)	**Funding KVK for Implementation of Farmers Field School**
4. Directorate of Cold Water Fisheries Research, Uttaranchal	**Project Implementation**
5. CIFA, Bhubaneswar	**Project Implementation**
6. CPGS, CAU, Umiam, Megahalaya	**Demonstration on jhum improvement**
7. Khadi and Village Industry Board, Aizawl, Mizoram	**Joint implementation of bee-keeping project**
8. Horticulture Department, Mizoram	**Training**
9. AH & Vety Department, Mizoram	**Vaccination Camp**
10. Village Councils & NGO, Lengpui	**Joint implementation & Conducting trainings**
11. IGNOU	**Diploma courses in Poultry Farming**
12. Synthetic and Art Silk Mills' Research Association	**Training for usage of Green House for High value crop Cultivation**
13. ICAR (RC) Research Complex for NEH Region, Mizoram Centre, Kolasib, Mizoram	**Technology backup**
14. ICAR-VPKAS Almora	**Training and supply of seeds**
15. DDK, Aizawl	**Dissemination of Technology by broadcasting our Technology and Programme**
16. SBI, Lengpui	**Training and joint participation**
17. ATMA, Mamit	**Joint implementation and Demonstration, Training**

18. ICAR-IIHR, Bangalore	**Supply of Seeds and contribution received for infrastructural development**
19. ICAR-IARI, New Delhi	**Supply of Seeds and contribution received for infrastructural development**
20. ICAR Research Complex for NEH Region	**Supply of Seeds and contribution received for infrastructural development**

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 2021

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Project	Organic Turmeric	2021-2023	NABARD, Mizoram	10,00,000.00
STRY	Training of Rural Youth	2022		

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district No

Sl. No.	Programme	Nature of linkage	Remarks
1	Assessment, refinement, validation and adoption of frontline technologies and other short term researchable issues.	Fund received for demonstration	Action taken
2	Farmer Scientist interaction	Resource person, Trainings, etc.	Action taken

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

5.6 MGMG of KVKs during 2022

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**
1 (Saithah village)	**90**	**-**	**15**	**90**	**-**	**5**	**37**	**-**	**10**	**45**	**-**

5.7 Natural Farming during 2022

No. of demonstrations conducted	**Participants**		**No. Trainings**	**Participants**		**No. of Awareness Programs**	**Participants**	
	SC/ST	**Others**		**SC/ST**	**Others**		**SC/ST**	**Others**
8	**42**	**-**	**9**	**45**	**-**	**4**	**38**	**-**

5.8 Achievements under DAMU KVKs during 2022 (only selected KVKs)

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

5.9 Format for Current Progress of Cluster Demonstrations on Organic Farming under PKVY during 2022 (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

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

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

6.1 Status of NARI during 2022

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)
Darlak	Vegetables			0.5	3	Palak	All green	3 q	1q						

Lengpui	Vegetables			0.5	3	Methi	-	2.5 q	1 q						
Rulpuihlim	Vegetables			0.5	3	Maize	RCM 75	8.5 q	1.5 q						

7. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2022

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.	Dairy	2008	0.02	Cross	Milk	1176 lts	24,000	34,800	2calves,1 milking cow
2.	Poultry	2010	0.002	Rainbow Rooster & Kadakhnath	Eggs & Chicks	-	-	-	Ongoing
3.	Vermi composting	2010	0.002	*Eisenia foetida*	Vermi compost	12 q.	8600	10800	Ongoing

7.2 Performance of instructional farm (Crops) including seed production during 2022

Name	Date of	Date of	Area (ha)	Details of production	Amount (Rs.)	Remarks

of the crop	sowing	harvest		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Rice	9.6.2022	8.11.2022	0.5	CAU-R1, Gomati	seeds	6 q		9000	
Wheat									
Maize	22.6.2022	7.10.2022	0.5	RCM-76	Fodder &Seed	10 q			
Tomato	8.10.2022	22.2.2023	0.06	Arka samrat, Arka abhed	Fruit	2q		4000	Distributed to 30 farmers
Brinjal	14.6.2022	21.10.2022	0.02	Pusa Anpuma	Fruit	0.5q		1000	Distributed to 20 farmers
Capsicum	22.9.2022	17.2.2023	0.001	Arka Mohini	Fruit	0.4q		1200	Distributed to 20 farmers
Cabbage	22.11.2022	24.2.2023	0.02	Bahar	Head	1q		1000	Distributed to 30 farmers
French bean	5.10.2022	26.1.2023	0.05	Zorin bean	Pod and seed	1q & Seed 0.2q		4500	Distributed to 30 farmers
Garden pea	14.10.2022	19.1.2023	0.05	ArkaApoorva, ArkaSampoorna	Pod and seed	1q &Seed 0.2q		5000	Distributed to 30 farmers
Dragonfruit	14.7.2022	On going	0.2	Red flesh	cuttings	1000			On going
Arecanut	3.5.2022	Seedlings distributed after 1 month	0.001	Assam	Seedlings	500			Distributed to 20 farmers
Tree bean	5.5.2022	Seedlings distributed after 1 month	0.001	Local	Seedlings	400			Distributed to 20 farmers

Moringa	9.5.2022	Seedlings distributed after 1 month	0.001	-	Seedlings	200			Distributed to 10 farmers
Papaya	2.5.2022	Seedlings distributed after 1 month	0.001	Red lady	Seedlings	500			Distributed to 20 farmers

7.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2022

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

7.4 Performance of instructional farm (livestock and fisheries production) during 2022

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	
1	Milk	1176 lts	24,000	34,800	2 calves,1 milking cow	Cross	Milk

2	Eggs & Chicks	-	-	-	Ongoing	Rainbow Rooster	Eggs & Chicks
3	Table fish	-	-	-	-	IMC & Exotic carp	Table fish

7.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2022

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST		
				Male	Female	Total

7.6. Utilization of hostel facilities (Month-Wise) during 2022

Accommodation available (No. of beds): 25

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)
August	STRY on Vermicompost	15	20	15	
Total					

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
With Host Institute	SBI	Lengpui	11821318372
With KVK			
Revolving Fund	SBI	Lengpui	30734028269

8.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2022

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2018
	Amount	Amount	Amount	Amount	
TOTAL					

8.3 Utilization of KVK funds during the year 2022

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	200.22976	200.22976	200.30718
2	Traveling allowances	3	3	3
3	Contingencies	18.5	18.5	18.5
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			
L	NARI			
M	HRD	0.8	0.8	0.8
TOTAL (A)		222.52976	222.52976	222.60718
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture	14.02	14.02	14.02
3	Vehicle (Four wheeler, please specify)			
4	Library (Purchase of assets like books & journals)	0.15	0.15	0.15
TOTAL (B)		14.17	14.17	14.17
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		236.69976	236.69976	236.77718

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)
April, 2020 to March, 2021	4.57112	0.72687	-	5.29809
April, 2021 to March, 2022	5.29809	2.01740	-	7.31277
April, 2022 to December, 2022	7.31277	2.15243	0.4049572	9.0602428

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

(b) Financial

(c) Technical

Sd/-
(Signature)
Dr. Vanlalhruaia Hnamte

Sr. Scientist cum Head