Requisite Information for ICAR-ATARI, Zone-VII Annual Report, 2019 (January-December, 2019)

1. KVK: Champhai District

2. STAFF POSITION

Catagomy		Staff		Т	OTAL	
Category	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant
Head (01)	1	1	-	1	1	-
SMS (06)	6	6	-	6	6	-
Prog. Assistant (02)	2	2	-	2	2	-
Farm Manager (01)	1	1	-	1	1	-
Asst. Superintendent (01)	1	1	-	1	1	-
Stenography (01)	1	1	-	1	1	-
Supporting staff (02)	2	2	-	2	2	-
Driver (02)	2	2	-	2	2	-
Total (16)	16	16	-	16	16	-

3. Summary of Agricultural Technologies assessed and Refined under different thematic Areas during 2019

Sl. No.	Thematic area	No. of Technology Assessed	No. of Trials	No. of Locati ons	Farmer Beneficiary (No.)
1	Varietal Evaluation	3	9	<mark>9</mark>	<mark>9</mark>
2	Integrated Nutrient Management/ Soil health management	1	3	3	3
3	Integrated Crop Management				
4	Integrated Pest Management	1	3	3	3
5	Integrated Disease Management	1	3	3	3
6	Weed Management				
7	Water management	1	1	<mark>3</mark>	<mark>3</mark>
8	Storage technique				
9	Farm Machineries/ implements				
9	Value addition				
10	Small scale income generating enterprise				
11	Seed/Plant production				

12	Drudgery reduction				
	Post-harvest lost/				
13	technology				
14	Resource Conservation				
14	Technology (RCTs)				
15	Mushroom cultivation				
16	Any other (Pl. specify)				
	Total	7	19	21	21
Sl.		No. of	No. of	No. of	Farmer
No.	Thematic area	technology	trials	Locati	Beneficiary
	XX 1 1 1 1 1 1	refined		ons	(No.)
1	Varietal Evaluation				
_	Integrated Nutrient				
2	Management/ Soil health management				
	Integrated Crop				
3	Management				
	Integrated Pest				
4	Management				
_	Integrated Disease				
5	Management				
6	Weed Management				
7	Water management				
8	Storage technique				
9	Farm Machineries/				
	implements				
9	Value addition				
10	Small scale income				
	generating enterprise				
11	Seed / Plant production				
12	Drudgery reduction				
13	Post-harvest lost/				
	technology				
14	Resource Conservation				
15	Technology (RCTs) Mushroom cultivation				
16	Any other (Pl. specify)		+		
10	Total		+		
	10tai				

$\hbox{4. Summary of Livestock Technologies assessed and refined under different thematic areas during 2019 }$

Sl.		No. of Technology	No. of	No. of locations	Farmer Beneficiary
No.	Thematic area	Assessed	Trials	locations	(No.)
1	Disease Management				, ,
2	Evaluation of breed				
3	Feed and fodder Management				
4	Nutrition Management				
5	Production and Management				
6.	Value Addition				
	Small Scale income generating				
7.	enterprises				
8.	Fish production				
9.	Any other (Pl. specify)				
	Total				
	I				
~~		No. of		No. of	Farmer
Sl.		Technology	No. of	No. of locations	Beneficiary
No.	Thematic area		No. of Trials	_ ,	
No. 1	Disease Management	Technology		_ ,	Beneficiary
No. 1 2	Disease Management Evaluation of breed	Technology		_ ,	Beneficiary
No. 1 2 3	Disease Management Evaluation of breed Feed and fodder Management	Technology		_ ,	Beneficiary
No. 1 2 3 4	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management	Technology		_ ,	Beneficiary
No. 1 2 3 4 5	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management	Technology		_ ,	Beneficiary
No. 1 2 3 4	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management Value Addition	Technology		_ ,	Beneficiary
No. 1 2 3 4 5 6.	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management Value Addition Small Scale income generating	Technology		_ ,	Beneficiary
No. 1 2 3 4 5 6.	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management Value Addition Small Scale income generating enterprises	Technology		_ ,	Beneficiary
No. 1 2 3 4 5 6. 7. 8.	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management Value Addition Small Scale income generating enterprises Fish production	Technology		_ ,	Beneficiary
No. 1 2 3 4 5 6.	Disease Management Evaluation of breed Feed and fodder Management Nutrition Management Production and Management Value Addition Small Scale income generating enterprises	Technology		_ ,	Beneficiary

5. Frontline Demonstration on Oilseeds Crops during 2019

Crop	Variety	No. of Farmers/ Demonstrati	Area	_	ge Yield Tha)	% Increase (Av.)	Average Cost of cultivation (Rs./ha)		Av. B:C Ratio
	ons	(ha)	Demo	Check	over Check	Demo	Check		
Groundnut	ICGV- 9114	10	5	8.30	-	100	37850	-	2.20
Sunflower									
Linseed									
Mustard									
Rapeseed									
Sesamum									
Soybean									
Toria									
Total		10	5	8.30	-	100	37850	-	2.20

${\bf 6. \ Frontline \ Demonstration \ on \ Pulse \ Crops \ during \ 2019}$

Crop	No. o Variety Farmer		Area Average Yield (q/ha)		Increase cultiv		e Cost of vation ./ha)	Av. B:C Ratio	
		Demons	(ha)	Demo	Check	(Av.)	Demo	Check	
Arhar									
Black gram									
Cowpea									
Field Pea	Azad Pea-3	20	10	21.80	14.50	50.34	36280	32520	1.89
French Beans									
Green gram									
Peas									
Rajmah									
Rice bean									
Lentil									
Garden Pea	Azad Pea-3	10	2	-	-	-	-	-	-
Total		30	12	21.80	14.50	50.34	36280	32520	1.89

7. Frontline Demonstration on Other Crops during 2019

C	T 7 • .	No. of	Area	ea		% Inc	Av. Cost of (Rs./		Av. B:C
Crop	Variety	Farmers/ Demos	(ha)	Dem o	Chec k	reas e	Demo	Check	B:C Ratio
A. Cereals									
Paddy	Local	10	2	31.06	25.12	23	30,510	25650	2.09
Wheat									
Maize (Kharif, Rabi, Summer)									
Total		10	2	31.06	25.12	23	30,510	25650	2.09
Tomato	Arka Samrat	10	7.25	325	250	30	1,96,969	1,44,230	3.3
Garlic	Yamuna Safed 8	15	5.25	-	-				On going
Tomato (IDM)	Local	10	4	219	171	14	1,03,000	90,000	1.9
Tomato (IPM)	Local	10	4	220	175	20	1,00,00	90,000	1.91
Total		45	20.5	764	596	64	399969	324230	
C. Spices									
Turmeric									
Ginger									
Chillies									
Coriander									
Black pepper									
Onion									
Garlic									
Any other (Pl.									
specify)									
Total									
D. Fruits									
Khasi Mandarin									
Banana									
Mango									
Pine apple									
Water melon									
Peach									
Straw berry									
Plum									
Guava									
Litchi									
Passion fruit									
Kiwi fruit									
Total									
Grand Total (A+B+C+D)		55	22.5	795.0 6	621.1	87	430479	349880	

8. Frontline Demonstration on Livestock during 2019

Enterprise	Name of Breed/ Species	No. of farmers/ Demons	No. of animals, poultry birds etc.	Performance parameters / indicators	% change in the parameter
Dairying				General health, Milk Production, Growth rate, mortality, resistance to diseases, calving period	
Poultry				Egg production, Egg weight, disease resistance, mortality rate	
Goatery				Litter size at birth & weaning, individual body wt at birth, weaning, 20^{th} & 32^{nd} week	
Duckery				Body weight, Egg production and Egg weight	
Piggery				Litter size at birth & weaning, individual body wt. at birth, weaning, 20 th & 32 nd week	
Total					

9. Frontline Demonstration on Other enterprise during 2019

Category	No. of Farmer/ Demo	No. of units	Performance parameters/ indicators	% change in parameter
Animal cum fish based IFS				
Paddy cum Fish				
Vermicomposting				
Chowchow				
Grain storage				
Banana fibre extractor				
Impact assessment				
Home Science				
Apiculture				
Mushroom				
Nutritional Garden				
Polyhouse				
Value Addition of Ginger				
Participatory video making				
Fish Silage				
Extraction of fiber from				
Okra				
Forest Species				
(Reclamation of degraded				
land with MPTS)				
Zero Energy Cool Chamber				
Bee hive Briquette Chulha				

Food Processing		
Fodder production		
Impact Assessment		
Recycling of waste		
Rain water harvesting		
Protective Clothing		
Sugarcane		
Nutritional Diet		
Feed Management		
Water Resource		
Management		
Sloppy Agriculture Land		
Technology (SALT)		
Broom grass		
Low cost evaporative cool		
storage structure		
Jalkund		
Total		

10. Frontline Demonstration on Farm machineries/ implements during 2019

Name of the implement/ machineries	Crop	Area (ha) covered	No. of Farmer/ Demon	Performance parameters / indicators	% change in parameter

11. Frontline Demonstration on Hybrid during 2019

	Name of the	No of			Yield (kg/ha)	
Сгор	Hybrid	No. of farmers	Area (ha)	Demo	Local check	% change
Carrot	Pusa Vrishti	3	0.75	12500	8000	30
Tomato	Arka Samrat	10	7.25	32500	25000	
Garlic	Yamuna Safed -8	15	5.25	On going	-	30
Field Pea	AP-3/Aman	20	10	2180	1450	50.34
Groundnut	ICGV-9114	10	5	830	-	100

12. Training programmes for farmers during 2019

Sl.		No. of No. of participants Trainings Male Female									
No.	Thematic area	Trainings (Courses)	N	I ale			Fem	ale			G.
			SC/ST	OBC	Gen	Total	SC/ST	OBC	Gen	Total	Total
1.	Crop production	7	84			84	76			76	160
2.	Horticulture										
	a. Vegetable crops	8	94			94	146			146	240
	b. Fruits	4	67			67	43			43	110
	c. Ornamental plants										
	d. Plantation crops										
	e. Tuber crops										
	f. Spices										
	g. Medicinal and Aromatic Plants										
	h. Preservation										
3.	Soil Health and Fertility Management/ INM	3	32			32	23			23	55
4.	Livestock Production and										
	management										
	a. Dairy										
	b. Piggery	1	24			24	16			16	40
	c. Poultry										
	d. Duckery										
	e. Rabbitry										
5.	Fisheries										
6.	Home science/Women										
	empowerment										
7.	Agri. Engineering										
8.	IPM	5	117			117	20			20	137
9.	IDM	2	59			59	11			11	70
10	ICM										
11.	IFS										
12.	Production of seeds/ planting materials										
13.	Capacity Building and Group Dynamics										
14.	Agro forestry										
15.	Post harvest Technology										
16.	Resource Conservation										
	Technology										
17.	Organic farming										
18.	Value addition										
19.	Integrated Water										
20	management Muchasam sultivation										
20.	Mushroom cultivation										

21.	Bee keeping								
22.	Sericulture								
23.	Bio-control of pests and diseases	3	88		88	22		22	110
24	Production of bio control agents and bio pesticides	5	31		31	129		129	160
	Total	38	596		596	486		486	1082

13. Training programmes for Rural Youth (RY) during 2019

CI		No. of				No. of pa	articipants				
Sl. No.	Thematic area	Trainings (Courses)		Ma	le			Fema	ale		
			SC/ST	ОВС	Gen	Total	SC/ST	ОВС	Gen	Total	G. Total
1.	Crop production	1	11			11	7			7	18
2.	Horticulture										
	b. Vegetable crops	3	30			30	10		10	10	40
	b. Fruits	2	15			15	5		5	5	20
	c. Ornamental plants										
	d. Plantation crops										
	e. Tuber crops										
	f. Spices										
	g. Medicinal and										
	Aromatic Plants										
	h. Preservation										
	Soil Health and										
3.	Fertility										
	Management/ INM										
4.	Livestock Production										
	and management										
	f. Dairy										
	g. Piggery										
	h. Poultry										
	i. Duckery										
	j. Rabbitry										
5.	Fisheries										
	Home										
6.	science/Women										
_	empowerment										
7.	Agri. Engineering										
8.	IPM								ļ		
9.	IDM										
10	ICM										
11.	IFS								-		
12.	Production of seeds/								1		
	planting materials										
13.	Capacity Building								1		
	and Group Dynamics										

14.	Agro forestry								
15.	Post harvest Technology								
16.	Resource Conservation Technology								
17.	Value addition								
18.	Organic farming								
19.	Integrated Water management								
20.	Mushroom cultivation	2	13		13	35		35	48
21.	Bee keeping								
22.	Sericulture								
23.	Organic pesticides	2	10		10	37		37	47
23.	Any other (Pl. specify)								
	Total	10	79		79	94	15	94	173

${\bf 14.\ Vocational\ training\ programmes\ for\ Rural\ Youth\ during\ 2019}$

Area of training	No. of	Duration				No. o	of Partici	pants			
	Courses	(days)	G	eneral/OI	BC		SC/ST		G	Frand Tot	al
			Male	Female	Total	Male	Female	Total	Male	Female	Total
a. Crop production											
and management											
Commercial											
floriculture											
Commercial fruit											
production											
Commercial											
vegetable production											
Integrated crop											
management											
Organic farming	2	5	-	-		12	18	30	12	18	30
Other											
Total											
b. Post harvest											
technology and											
value addition											
Value addition											
Other											
Total											
c. Livestock and											
fisheries											
Dairy farming											
Composite fish											
culture											
Sheep and goat											

rearing										
Piggery										
Poultry farming										
Other										
Total										
d. Income										
generation activities										
Vermi0composting	4	3	1	-	37	23	60	37	23	60
Production of										
bioOagents,										
bio0pesticides,										
bio0fertilizers etc.										
Repair and										
maintenance of farm										
machinery &										
imlements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom	_	6			13	35	48	13	35	48
cultivation	6									
Nursery, grafting etc.										
Tailoring, stitching,										
embroidery, dying										
etc.										
Agril. para0workers,										
para0vet training										
Other										
Total										
e. Agricultural										
Extension Capacity building and										
Capacity building and group dynamics										
Other										
Total										
10tai	12	1.1			62	76	138	62	76	120
Grand Total	12	14			62	76	138	62	76	138

15. Training programmes for Extension Personnel (EP) during 2019

Sl.	Thematic area	No. of		No	o. of pa	rticipan	ts				
No.		Trainings	M	ale			Fem	ale			
		(Courses)	SC/S	OBC	Gen	Tota	SC/ST	OBC	Gen	Total	G.
			T			l					Total
1.	Crop production										
2.	Horticulture										
	c.Vegetable crops	1	6			6	4			4	10
	b. Fruits										
	c. Ornamental										
	plants										
	d. Plantation crops										
	e. Tuber crops										
	f. Spices										
	g. Medicinal and										
	Aromatic Plants										
	h. Preservation										
3.	Soil Health and										
	Fertility Name and ANA										
4	Management/ INM Livestock										
4.	Production and										
	management k. Dairy										
	1. Piggery										
	m. Poultry										
	n. Duckery										
	o. Rabbitry Fisheries										
5. 6.	Home										
0.	science/Women										
	empowerment										
7.	Agri. Engineering										
8.	IPM	1	7			7	3			3	10
9.	IDM	1	,			,				<i>,</i>	10
10	ICM										
11.	IFS								<u> </u>		
12.	Production of										
14.	seeds/ planting										
	materials										
13.	Capacity Building										
	and Group										
	Dynamics										
14.	Agro forestry										
15.	Post harvest										
	Technology										
16.	Resource										

	Conservation Technology										
17.	Value addition										
18.	Organic farming	1	18	-	-	18	12	-	-	12	30
19.	Integrated Water management										
20.	Mushroom cultivation										
21.	Bee keeping										
22.	Sericulture										
23.	Any other (Pl. specify)										
	Total	3	31			31	19			19	50

16. Sponsored training programmes conducted by KVK during 2019

Thematic area	No. Of	No. of participants Male Female									
	course	Male				Fem	ale				
		SC/ST	OBC	Gen	Total	SC/ST	OBC	Gen	Total	G. Total	
a. Crop production and management											
Increasing production and productivity of crops											
Commercial production of vegetables											
Production and value addition											
Fruit Plants											
Ornamental plants											
Spices crops											
Soil health and fertility management	1	13	-	-	13	19	-	-	19	32	
Production of Inputs at site	5	179	-	-	179	199	-	-	199	378	
Methods of protective cultivation	5	135			135	40			40	175	
Mushroom Cultivation	6	13			13	35			35	48	
Total	17	340			340	293			293	633	
b. Post harvest technology and											

value addition						1	1	1	
Processing and value									
addition									
Other									
Total									
c. Farm machinery									
Farm machinery,									
tools and implements									
Other									
Total									
d. Livestock and									
fisheries									
Livestock production									
and management									
Animal Nutrition									
Management									
Animal Disease									
Management									
Fisheries Nutrition									
Fisheries									
Management									
Other									
Total									
e. Home Science									
Household nutritional									
security									
Economic									
empowerment of									
women									
Drudgery reduction									
of women									
Other									
Total									
f. Agricultural									
Extension									
Capacity Building									
and Group Dynamics									
Other									
Total									
Total	17	340		240	293			202	622
Grant Total	17	340		340	293			293	633
Grant Total									

17. Summary of Extension Activities organized by KVK during 2019

				,	No	o. of parti	icipants				
Sl. No.	Extension Activity	No. Of		Mal					male		
D1. 1 (0.	Extension receivity	programme	a a com			I m	a a ram	ong			a.m., 1
A.	Extension Activities		SC/ST	OBC	Gen	Total	SC/ST	OBC	Gen	Total	G. Total
1	Diagnostic visits	68	132			132	83			83	215
2	Advisory Services	16	92			92	54			54	124
3	Animal Health Camp	1	28			28	24			24	52
4	Plant health camp										
5	Training/ practical manual	78	214			214	112			112	326
	Celebration of important	0	260			260	250			250	510
6	days	9	268			268	250			250	518
7	Exhibition	2	258			258	84			84	342
8	Exposure visits										
9	Farm Science Club										
9	Conveners meet										
10	Farmers Seminar/	2	77			77	53			53	130
	workshop										
11	Farmers Visit to KVK	89	497			497	439			439	936
12	Field Day										
13	Group meetings/										
	Discussion										
14.	Awareness Camp										
15.	Kisan Gosthi	1	183			183	67			67	250
16.	Kisan Mela										
17.	Mahila Mandal Conveners'										
	meetings	10	0.2			0.2				~ -	1.40
18.	Method Demonstrations	12	92			92	56			56	148
19.	Scientists visit to farmers field	29	27			27	22			22	49
20	Self Help Group Conveners meetings										
21.	Soil health/ testing Campaigns	3	38			38	22			22	60
22.	Film show	4	183			183	97			97	280
23.	Any other (Pl. specify)										
	Total	314	2089			2089	1363			1363	3430
В.	Other Extension Activities										
1.	News paper coverage	11									
2.	News letter										
3.	Research papers	1									
4.	Technical report/ article										
5.	Radio talks										
6.	TV Talks										
7.	Electronic media										
8.	CD publication										
9.	Extension literature										
10.	Technical bulletins	8									
11.	Literature delivered to	8									
	resource person										
12.	Leaflets/folders	12									
13.	Any other (Pl. Specify)	4.0									
	Total	40				2022	40			40	
	Grand Total (A+B)	354	2089			2089	1363			1363	3430

18. Production of seeds, planting materials and bio-products during 2019

Sl. No.	Major group/ Class	Quantity
Α.	Seeds (qt)	
1	Cereals a) Rice(Manipur local)	25qtl
	b) Maize(RCM-75 & 76)	3qtl
2	Oilseeds – Groundnut(GPBD-5)	4qtl
3	Pulses – Field Pea(IPFD10-12)	1.5qtl
4	Vegetables	
5	Spice – Garlic(G282)	12qtl
	Total (in Qt)	45.5qtl
В.	Planting materials (in Nos.)	
1	Fruits	
2	Plantation crops	
3	Vegetables	
	a) Chili(Arka Harit)	9600 nos
	b) Brinjal(Local variety)	8000 nos
	c) Tomato(A Rakshak & A Samrat)	15000 nos
4.	Flowers/ cuttings- Merigold(Pusa Narangi)	25000 nos
5	Spices – Onion(Agrifound light red)	20000 nos
	Total	77600 nos
C.	Bio-products	
1	Bio-fertilizers (qt)	
	a) Vermicompost(Eudrilus Eugeneae)	4.5qtl
2	Bio-agents (qt)	
3	Bio-pesticides (ltr)	
	Total (excluding bio-pesticides)	4.5qtl
D.	Livestock	
1.	Livestock – Turkey(Broad breasted white)	6 nos
2.	Fingerlings (Nos. in lakh)	
	Total (Nos. in lakh)	6 nos

19. Production and Revenue generation by KVK from different sources during 2019

a. Seed production

Sl. No.	Cereal 1. Rice 2. Wheat 3. Maize 4. Others (Pl. Specify) Oilseeds 1. Mustard 2. Toria	Produ	ction and revenue generation
		Production (ton)	Revenue (lakh)
A.	Cereal		
	1. Rice	0.015	0.06
	3. Maize	0.008	0.048
	4. Others (Pl. Specify)		
В.	Oilseeds		
	1. Mustard		
	2. Toria		
	3. Linseed		
	4. Soyabean		
	5. Sesame (Til)		
	6. Ground nut		
	7. Others (Pl. Specify)		
C.	Pulses		
	1. Greengram		
	2. Redgram		
	3. Blackgram		
	4. Chickpea		
	5. Soyabean		
	6. Lentil		
	7. Cowpea	0.004	0.02
	8. Field Pea	0.02	0.1
D.	Vegetables		
	1. Cabbage	0.003	0.0135
	2. cauliflower	0.002	0.012
	3. Brinjal		
	4. Potato		
	5. Others		
E.	Spices/ Condiments		
	1. Turmeric		
	2. Ginger		
	3. Chilli		
	4. Black pepper		
	5. Cardamon		
	6. Any other (Pl. specify)		
	Total	0.052	0.2535

b. Planting Materials/ Seedlings produced during 2019

Sl. No.	Planting materials	Production and reve	nue generation
		Production (No.)	Revenue (lakh)
Α.	Vegetables		
	Chilli	9600	0.048
	Brinjal	8000	0.08
	Onion	20000	0.1
	Tomato	15000	0.15
В.			
C.	Ornamental plants/		
	trees		
	1. Marigold	25000	0.05
D.	Tree species		
	1.		
E.	Flowers		
	1.		
F.	Others (Pl. Specify)		
	1.		
	Total	77600	0.428

c. Livestock strains/ Fingerlings produced during 2029

Sl. No.	Planting materials	Production and revenue generation				
		Production (No.)	Revenue (lakh)			
Α.	Livestock strains (nos.					
	in lakh)					
	1.					
В.	Poultry					
	1.					
C.	Duckery					
	1.					
D.	Fisheries/ Fingerlings					
	(nos. in lakh)					
	1.					
Е.	Others (Pl. Specify)					
	1.					
	Total					

20. Scientific Advisory Committee (SAC) of KVK during 2019

Sl. No.	KVK	SAC conducted (Yes/ No)	Date (if yes)	If no, why?
1.	Champhai District	Yes	15 th Jan 2019	

21. Status of Revolving Fund (RF) of KVK during 2019 (in lakh)

Sl. No.	Activities under RF	Opening balance as on 1 st January, 2019	Income during the year	Expenditure during the year	Net balance as on 31 st December, 2019	
1	Mushroom cultivation					
2	Vermicompost production	75000/		129890/-	49650/-	
3	Custom hiring of Farm machinery	75000/-	179540/-			
4	Sale of Seeds(Field Pea-AP3)					
	Total	75000/-	179540/-	129890/-	49650/-	

^{*} Remarks: Net balance < Opening balance since expenditure recovery not completed from Pea seeds during the reporting period

22. Details of Cultivable land, land not in use and revenue generation by KVK during 2019

Sl. No.	KVK total area (ha)	Cultivable land area available with the KVK(ha)	Cultivable land area of KVK not in use (ha)	Revenue generated from cultivated KVK land (Rs) (1)	Revenue generated from other sources (Rs) other than cultivated KVK land (2)	Total (1+2)
1	12.774	8.464	3	18650/-	2850/-	21500/-
Total	12.774	8.464	3	18650/-	2850/-	21500/-

23. Achievement of Rain Water Harvesting Structure during 2019

Sl. No.	No. of Training programme	No. of demonstration	No. of planting materials produced	Visit by farmers	Visit by KVK staff
1	1	1	-	24	8

24. Achievement of Portable Carp Hatchery in KVKs during 2019

Sl.	Activity	Fish Species (Name)	Traini ng condu cted (No.) Farmer Benefici ary (No.)		Demo	Farmer	Village	Fingerlings (No.)	
No.				n(No.	Beneficiary (No.)	covered (No.)	Prod uced	Distri buted	
1.									
	Total								

25. Status of Soil & Water Testing Labs/ Soil Health Cards (SHCs) in KVKs during 2019

Sl. No.	Samples tested/ Analysed	Nos.	Farmer beneficiaries	Village covered	Amount realised (Rs.)	SHCs issued to farmers (Nos.)
1.	Soil sample	209	209	15	-	209
2.	Water sample					
3.	Plant sample					
	Total	209	209	15	-	209

26. Soil testing during 2019

	Soil sample (No.)	Soil testing through							
Sl. No.		Mridaparikshak (Nagarjun)	Soil testing Kit (Pusa, STFR)	From KVK lab/ any other lab (pl. specify the name)	Total				
1	209	209			209				

27. Mobile Advisory Services rendered by KVK during 2019

	Crop		Livestock		Weat	Weather		eting	Aware	ness	Other	Ent.	Total	
Messa ge type	No. of Messa ge	No. of Ben eficia ry	No. of Messa ge	No. of Ben ef icia ry	No. of Messa ge	No. of Ben ef icia ry	No. of Messa ge	No. of Ben efi ciar y	No. of Messa ge	No. of Ben ef icia ry	No. of Messa ge	No. of Ben ef icia ry	No. of Messa ge	No. of Ben efi ciar y
Text only	150	150	50	50	12	12	20	20	130	130	30	30		
Voice only	250	250	20	20	20	20	23	23	34	34	20	20		
Voice and Text both														
Total	400	400	70	70	32	32	43	43	164	164	50	50	595	595

Note: M-No. of Message, B-No. of Beneficiaries

28. List special programmes undertaken by the KVK, which have been financed/ sponsored by State Govt./ICAR/ Other Agencies during 2019

Sl. No.	Name of special program	Major Activity	Duration and Date	No. of particip ants	Special Dignitary (pl. mention the name if any)	Funding agency/ Sponsoring orgn.	Amount (Rs.) received
1	Pradhan Mantri Fasal Bima Yojana						
2	Mera Gaon Mera Gaurauv						
3	Kisan Diwas	Awareness Campaign & Seedling Distribution	23/12/2019	23	-	-	-
4	Kharif Campaign	-	-	-	-	-	-
5	PPV&FRA awareness programme						
6	World Soil Health Day	Soil Health Card distribution & Training on awareness programme	5 Dec 2019(1 day)	40	-	-	-
7	Jai Kisan Jai Vigyan						

8	Technology Week	-	-	-	-	-	-
9	Skill Development Programme under ASCI	-	-	-	-	-	-
10	Swachh Bharat Abhiyan	Cleanliness drive at Office, School, Market etc	19/2/2019 18/4/2019 22/5/2019 9/7/2019 4/9/2019	25 18 8 22 34	-	-	-
11	Sankalp Se Sidhi	-	-	-	-	-	-
12	Swachhta Pakhwada	Cleanliness drive, construction of Toilet, Awareness campaign, Drawing competition etc	16-31 Dec 2019(16days)	287	DC Khawzawl VCP Kawnzar, Khawzawl YMA President Kawnzar MHIP Kawnzar	-	-
13	Kisan Kalyan Abhiyan		-				
14	Swachhta Action Plan	Cleanliness drive, construction of Toilet, Awareness campaign, Drainage construction, etc	Jan-Apr Apr-Jun Jul-Sept Oct-Dec	416		ICAR	22500
	Total						

29. Cluster FLD (CFLD) on Oilseeds under MNOOP during 2019

Crop	Variety	No. of Farmers/	Area	Area Average Yield (q/ha)		% Increase	Average Cost of cultivation (Rs./ha)		Av. B:C
		Demonstr ations	(ha)	Demo	Check	(Av.)	Demo	Check	Ratio
Groundnut									
Sunflower									
Linseed									
Mustard									
Rapeseed									
Sesamum									
Soybean									
Toria									
Total									

30. Cluster FLD (CFLD) on Pulses under NFSM during 2019

Crop	Variety	No. of Farmers	Are a	Average Yield (q/ha)		Morease Average Cost of cultivation (Rs./ha)		Av. B:C Ratio	
		Demons	(ha)	Demo	Check	(Av.)	Demo	Check	
Arhar									
Black gram									
Cowpea									
Field Pea	Azad P3	50	20	22.4	13.98	60.2	34950	32280	1.74
French Beans									
Green gram									
Peas									
Rajmah									
Rice bean									
Lentil									
Any other (Pl.									
specify)									
Total	Azad P3	50	20	22.4	13.98	60.2	34950	32280	1.74

31. Literature Developed/Published (with full title, author & reference) during 2019

Item	Title /and Name of Journal	Authors name	Number of copies (where applicable)
Research papers			
Training manuals	Application of GIS and remote sensing in soil and water conservation (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Cultivation practices of leguminous hedgerow crops and their utilizations as green manure (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Soil conservation measures in current Jhum (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Settled agriculture practices for Jhum (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Earning income from fallow phase and biodiversity conservation (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24

	In situ Soil and moisture conservation measures (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Possible ways and means to lengthen shifting cultivation cycles (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Soil sampling procedure, soil health analysis, interpretation and recommendation (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
	Water harvesting technologies in sloping land (TOT for FOCUS team members)	Dr. Henry Saplalrinliana Sr. Scientist & Head	24
Technical Report			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Popular articles			
Leaflets/folders	Alu chindan Tomato hlawk zawka thar dan IPM in Tomato	Dr. Malsawmkimi (SMS, Horti) F.Zoramthari(SMS, PP)	150 copy each
	Vermi composting Azolla Khawi Dan(Cultivation of Azolla)	R. vanlalduati (SMS, Soil Sc)	
e-publications			
TOTAL			

32. Gender Issues for technological empowerment of farm women in agriculture during 2019 (Highlight a brief activities undertaken towards gender empowerment by your KVK with action photographs)

S no	Acitivities	Village covered	No of
			Participant
1	Artificial Flower Making	Chawngtlai,	297
	for Farm Women	Khawlkulh,	
		Khawhai, Rabung	
2	Home Made Ice-cream, cake baking etc	Khawzawl	54
3	Mushroom Production	Chalrang,	69
		Khawzawl	
4	International Women's	Khawzawl	43
	Day		
5	Value Addition of Tomato,	Tuipui, Kawlkulh,	167
	Banana Chips, Ginger etc	Rabung, Khawhai,	
		N.Chalrang	
6	Soap Making	Khawbung,	189
		Khuangleng,	
		farkawn, Dungtlang	



33. Awards and recognitions received by your KVK during 2019

Sl. No.	Name of Award/ recognition/ fellowship	Professional Society/ Govt./ ICAR/ Any other agency (pl. specify)	Value of award (Rs. In lakh)	Salient Contribution/ achievement
1	Khawzawl Town Cleanliness Competition 2019	Govt.	5000/-	2 nd Position

34. Awards and recognitions received by farmers of your KVK during 2019

Sl. No.	Name of Award/ recognition/ fellowship	Professional Society/ Govt./ ICAR/ Any other agency (pl. specify)	Value of award (Rs. In lakh)	Salient Contribution/ achievement
1	Best Farmer Award	T.C. Lalliantluanga	30,000	Award for adoption of IIHR technologies 2019-20

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

a)

Performance of Tomato variety Arka Rakshak and Arka Samrat under open condition Introduction:

Farmers of Champhai District in general and Tuipui village in particular do not cultivate tomato under open condition due to wilt problem and blight diseases during *kharif* season under open condition. Viewing these problems KVK, Champhai District introduced Arka Rakshak and Arka Samrat. Before introduction, every year Mizoram has to import tomato from other neighbouring state to meet the demand since tomato crop was never cultivated by farmers of Mizoram under open cultivation in large scale. This could be achieved by the introduction of tomato varieties alone in Champhai District. Tuipui Village of Champhai District, Mizoram became popular in all over Mizoram because of tomato cultivation.

Outcome and Impact

On farm trial result showed that the average number of fruit per plant, fruit weight and yield was observed higher in Arka Samrat whereas average plant height was recorded higher in Arka Rakshak. The B:C ratio was obtained higher in Arka Samrat (2.4) whereas, 2.2 in Arka Samrat. Tuipui has now become a commercial tomato hub in the District. The impact was reached out to 120 farmers in the District. Neighbouring villages like Tualte, Chawngtlai, Hmunhmeltha, Ngaizawl and Khawzawl also replicated the technology and started cultivating tomato because of its productivity and profitability.

Sl.no	Parameters	Arka Rakshak	Arka Samrat
1	Average plant height (cm)	60	62
2	Average No of fruit per plant	71	78
3	Average Fruit weight (g)	70.23	73
4	Average yield (q)	312	340
5	B;C ratio	2.2	2.4







SPECIFIC SUCCESS STORY AND IMPACT OF TECHNOLOGIES

Name of farmer : Zairemmawii

Location : Vengthan, Khawzawl

Intervention : Cake Baking

Income before : Nil

Income at present: Rs 1.2 lakhs per year from 2014.

Name of farmer : Lalfamkimi

Location : Dinthar, Khawzawl Intervention : Artificial Flower Making

Income before : Nil.

Income at present : Rs 1.5 lakhs per year from 2012.







Integrated Farming System:

Name: Lalnuntluanga, Mual veng, Ruantlang, champhai district.

Farm Size: 1.62ha

Farm experience: 15 years Intervention: IFS Model

Salient Features:

- 1) Suggestive model for effective utilization and conservation of rain water.
- 2) Best farmer award in the district 2019
- 3) Facilitator and model farmer for IFS.

Impact & Achievement:

- 1) Act as a resource person for various programme
- 2) Farmers started adopting the technologies from his farm and enterprises.
- 3) 99 Nos of farmers benefitted through seed/planting materials/livestock

	On Farm Income				Off Farm Income				
S.no	Crop/Enterprise	Area/Unit	Gross Income/year (Rs.)	Net Income/Year (Rs.)	S.no	Crop/Ente rprise	Area/U nit	Gross Income/year (Rs.)	Net Income/Ye ar (Rs.)
1	Rice-Maize based cropping system	1ha	1,32,000	67,000	1	Piggery	1 unit	50,000	21,000
2	Mustard	0.2	1,10,000	87,000	2	Fishery	0.5 ha	1,20,000	90,000
3	Field Pea	0.5	47,000	32,000	3	Cattle	22 nos	1,20,000	1,00,000
4	Tomato	0.6	2,71,000	1,80,000	4	Brick		6.50,000	2.50.000
5	French Bean	0.3	20,500	13,500	4	Впск	-	6,50,000	3,50,000



36. Functional linkage of the KVK with different organizations established during 2019

Name of organization/ Agency	Activities/ programmes	Nature of linkage
State Department of Agriculture/Horticulture/ AH&VETY/ Fishery/ Forestry/ Soil & Water Conservation/ Minor Irrigation/ Sericulture of Champhai District.	Training, Demonstration, Technical Support, Seed Supply, Joint visit etc	Implementation of RKVY, NFSM, supply of subsidized inputs like chemicals, farm machinery, Project, Training, Technical Advices, etc
NABARD	Field Visit, Financial Support, Trials and Demonstration	Implementation of Project and Trainings
ATMA	Training, Demonstration, Technical Support etc	Training and technical advice as Resource person
NGOs AMFU, YMA etc	Training, Demonstration, Technical Support, Seed Supply etc	Technology transfer, Awareness programme, Celebration of important days
IFAD FOCUS(Fostering Climate Resilient Upland Farming System)	Training, Demonstration, Technical Support etc	Training and technical advice as Resource person
Deputy Commissioner of Champhai District * Khawzawl District	Combined relevant activities	Active participation & collaboration of various activities and meetings in implementation of programme 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

Note: The figure/ data/ information under each point must invariably tally with those to be provided in the for KVK Annual Report, 2019 to avoid any discrepancy while compilation.

Si	gnature	of Sr.	Scientist	& Head
KVK_				