

**Requisite Information to be submitted (*Soft Copy only in CD*) for
ICAR-ATARI, Zone-VII Annual Report, 2018 -19**

1. KVK : CHAMPHAI DISTRICT, MIZORAM

2. Summary of Agricultural Technologies assessed and Refined under different thematic Areas during 2018-19

Sl. No	Thematic area	No. of Technology Assessed	No. of Trials	No. of Locations	Farmer Beneficiary (No.)
1	Varietal Evaluation	3	9	9	9
2	Integrated Nutrient Management	1	3	3	3
3	Integrated Crop Management	1	3	3	3
4	Integrated Pest Management				
5	Integrated Disease Management	3	9	9	9
6	Weed Management				
7	Water management				
8	Storage technique				
9	Farm Machineries				
9	Value addition				
10	Small scale income generating enterprise				
11	Seed / Plant production				
12	Drudgery reduction				
13	Post-harvest lost/ technology				
14	Resource Conservation Technology (RCTs)	1	3	3	3
15	Mushroom cultivation				
16	Any other (Pl. specify)				
	Total	9	27	27	27
Sl. No	Thematic area	No. of technology refined	No. of trials	No. of Locations	Farmer Beneficiary (No.)
1	Varietal Evaluation				
2	Integrated Nutrient Management				
3	Integrated Crop Management				
4	Integrated Pest Management				
5	Integrated Disease				

	Management				
6	Weed Management				
7	Water management				
8	Storage technique				
9	Farm Machineries				
9	Value addition				
10	Small scale income generating enterprise				
11	Seed / Plant production				
12	Drudgery reduction				
13	Post-harvest lost/ technology				
14	Resource Conservation Technology (RCTs)				
15	Mushroom cultivation				
16	Any other (Pl. specify)				
	Total				

3. Summary of Livestock Technologies assessed and refined under different thematic areas during 2018-19

Sl. No.	Thematic area	No. of Technology Assessed	No. of Trials	No. of locations	Farmer Beneficiary (No.)
1	Disease Management				
2	Evaluation of breed				
3	Feed and fodder Management				
4	Nutrition Management				
5	Production and Management	2	15	15	15
6.	Value Addition				
7.	Small Scale income generating enterprises				
8.	Fish production				
9.	Any other (Pl. specify)				
	Total				
Sl. No.	Thematic area	No. of Technology Refined	No. of Trials	No. of locations	Farmer Beneficiary (No.)
1	Disease Management				
2	Evaluation of breed				
3	Feed and fodder Management				
4	Nutrition Management				
5	Production and Management				
6.	Value Addition				
7.	Small Scale income generating enterprises				
8.	Fish production				
9.	Any other (Pl. specify)				
	Total				

4. Frontline Demonstration on Oilseeds Crops during 2018-19

Crop	Variety	No. of Farmers/ Demonstrations	Area	Average Yield (q/ha)		% Increase (Av.) over Check	Average Cost of cultivation (Rs./ha)		Av. B:C Ratio
			(ha)	Demo	Check		Demo	Check	
Groundnut	GPBD-4	10	2.5	8.50	NA	NA	37850	0	1.98
Sunflower									
Linseed									
Mustard									
Rapeseed									
Sesamum									
Soybean									
Toria									
Total		10	2.5	8.50			37850		

5. Frontline Demonstration on Pulse Crops during 2018-19

Crop	Variety	No. of Farmers / Demos	Area	Average Yield (q/ha)		% Increase (Av.)	Average Cost of cultivation (Rs./ha)		Av. B:C Ratio
			(ha)	Demo	Check		Demo	Check	
Arhar									
Black gram									
Cowpea									
Field Pea									
French Beans									
Green gram									
Peas	Azad pea 3	20	5	20.60	14.20	31.07	36430	31480	2.50 2.07
Rajmah									
Rice bean									
Lentil									
Any other (Pl. specify)									
Total		20	5						

6. Frontline Demonstration on Other Crops during 2018-19

Crop	Variety	No. of Farmers/ Demos	Area	Average Yield (q/ha)		% Increase	Av. Cost of cultivation (Rs./ha)		Av. B:C Ratio
			(ha)	Dem o	Chec k		Dem o	Check	
A. Cereals									
Paddy									
Wheat									
Maize (Kharif, Rabi, Summer)									
Any other (Pl. Specify)									
Total									
B. Vegetables									
Brinjal									
Bottle Gourd									
Bitter Gourd									
Pointed gourd									
French Bean									
Pumpkin									
Potato									
Sweet Potato									
Tapioca									
Cabbage									
Cauliflower									
Carrot									
Tomato	Arka Samrat	10	4	320	250	28	206451	206451	3.1
	Local	10	4	261.5	186	40	200000	170000	2.62
Broccoli	Green magic	10	2	61	54	12.96	110000	98500	2.9
Capsicum									
Mustard	Local	10	4	37	26	49.23	31040	28000	2.5
Garlic	G-282	15	5	63.8	53	23	138095	138095	2.31
Total									
C. Spices									
Turmeric									
Ginger									
Chillies									
Coriander									
Black pepper									
Onion	G-282	15	5	56	53	20.3	138095	138095	2.31

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									
Grape	Bangalore Blue	10	5	73	59	23.72	87,100	81000	3.1
Total									
Grand Total (A+B+C+D)		80	34						

7. Frontline Demonstration on Livestock & Other Enterprises during 2018-19

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	
Fishery	Grass carp	20	6000	-	80
Total					

6.	Home science/Women empowerment									
7.	Agri. Engineering									
8.	IPM									
9.	IDM									
10.	ICM									
11.	IFS	1(2)	17			4			21	21
12.	Production of 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	3(8)	31			14		45		45
19.	Integrated Water management									
20.	Mushroom cultivation	2(3)	16			16		32		32
21.	Bee keeping	2(4)	20			20		40		40
22.	Sericulture									
23.	Any other (Pl. specify)									
	Total	11(24)	129			87		216		216

10. Vocational training programmes for Rural Youth during 2018-19

Crop / Enterprise	Identified Thrust Area	No. of Trainings (Courses)	Training title	Duration (days)	No. of Participants			Number of persons Self employed after training	Number of persons employed else where
					M	F	T		
Khasi mandarin Grape	Fruits and vegetables production	1(6)	Commercial cultivation of major fruits and vegetables	3	20	10	30		

	Conveners' meetings									
18.	Method Demonstrations	7	100				40			140 140
19.	Scientists visit to farmers field	20	42				18			60 60
20	Self Help Group Conveners meetings	2	45				10			55 55
21.	Soil health/ testing Campaigns	6	200				40			240 240
22.	Film show	2	50				20			70 70
23.	Any other (Pl. specify)									
	Total	423	1260				440			1770 1770
B.	Other Extension Activities									
1.	News paper coverage	24								-
2.	News letter									
3.	Research papers	1								
4.	Technical report/ article									
5.	Radio talks									
6.	TV Talks	2								
7.	Electronic media									
8.	CD publication									
9.	Extension literature	30								-
10.	Technical bulletins									
11.	Literature delivered to resource person	12								
12.	Leaflets/folders									
13.	PRA	2								
	Total	71								
	Grand Total (A+B)	494	1260				440			1770 1770

14. Production of seeds, planting materials and bio-products during 2018-19

Sl. No.	Major group/ Class	Quantity
A.	Seeds (qt)	
1	CEREALS	40
2	OILSEEDS	8
3	PULSES	6
4	VEGETABLES	28
6	Any Other (Pl. specify)	
	i.	
	ii.	
	Total (in Qt)	82
B.	Planting materials (in Nos.)	
1	Fruits	
2	Plantation crops	
3	Vegetables	75000
4.	Flowers/ cuttings	75000
5	Any Other (Pl. specify)	
	i.	
	ii.	
	Total	15000
C.	Bio-products	
1	Bio-fertilizers (qt)	20
2	Bio-agents (qt)	
3	Bio-pesticides (ltr)	
	Total (excluding bio-pesticides)	20
D.	Livestock	
1.	Livestock strains (Nos. in lakh)	0.0003
2.	Fingerlings (Nos. in lakh)	0.0007
	Total (Nos. in lakh)	0.0010

	Total	18500	18500	36500	54000	150000	65500	205000	156000
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c. Livestock strains/ Fingerlings produced during last 3 years

Sl. No.	Livestock strains / fingerlings	Production in number (P) and revenue generation in lakh (R)						Total	
		2016-17		2017-18		2018-19		P	R
		P	R	P	R	P	R		
A.	Livestock strains (nos. in lakh)								
	1.								
	2.								
	3.								
B.	Poultry								
	1.								
	2.								
	3.								
C.	Duckery								
	1.								
	2.								
	3.								
D.	Fisheries/ Fingerlings (nos. in lakh)								
	1.								
	2.								
	3.								
E.	Others (Pl. Specify)								
	1.								
	2.								
	3.								
	Total								

16. Scientific Advisory Committee (SAC) of KVK during 2018-19

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

17. Status of Revolving Fund (RF) of KVK during 2018-19 (in lakh)

Sl. No.	Activities under RF	Opening balance as on 1 st April, 2018	Income during the year	Expenditure during the year	Net balance in hand as on 31 st March, 2019

2.									
3.									
	Total								

21. Status of Soil & Water Testing Labs/ Soil Health Cards (SHCs) in KVKs during 2018-19

Sl. No.	Samples tested/ Analysed	Nos.	Farmer beneficiaries	Village covered	Amount realised (Rs.)	SHCs issued to farmers (Nos.)
1.	Soil sample	237	237	8	-	237
	Total	237				237

22. Soil testing during 2018-19

Sl. No.	Soil sample (No.)	Soil testing through			
		Mridaparikshak (Nagarjun)	Soil testing Kit (Pusa, STFR)	From KVK lab/ any other lab (pl. specify the name)	Total
1	237	237	-	-	237

23. Mobile Advisory Services rendered by KVK during 2018-19

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	M	B	M	B	M	B	M	B	M	B	M	B	M	B
Text only	35	35	56	56	16	16	9	9	59	59	34	34	209	209
Voice only	124	124	50	50	34	34	45	45	67	67	23	23	282	282
Voice and Text both														
Total	159	159	106	106	50	50	54	54	66	66	57	57	491	491

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

24. List special programmes undertaken by the KVK, which have been financed/ sponsored by State Govt./ICAR/ Other Agencies during 2018-19

Sl. No.	Name of special program	Major Activity	Duration and Date	No. of participants	Special Dignitary (pl. mention the name if any)	Funding agency/ Sponsorin g orgn.	Amount (Rs.) received
1	Pradhan Mantri Fasal Bima Yojana						
2	Mera Gaon Mera Gaurav		05.11.2018	30	BDO, Khawzawl	-	-
3	Rabi Campaign		11.10.2018	50	SDO, Khawzawl	-	-
4	Kharif Campaign						
5	PPV&FRA awareness programme						
6	World Soil Health Day		05.12.2018	67	VCP, Khawzawl	-	-
7	Jai Kisan Jai Vigyan		23.12.2018	35	Bank Manager, Khawzawl, MRB		
8	Technology Week						
9	Skill Development Programme under ASCI						
10	Swachh Bharat Abhiyan		15.9.2018-2.10.2018	125	VCP, Khawzawl	-	-
11	Sankalp Se Sidhi						
12	Swachhta Pakhwada						
13	Kisan Kalyan Abhiyan						
14	Swachhta Action Plan						
15	Any other (pl. Specify)						
	i.						
	ii.						

Total	307	

25. Cluster FLD (CFLD) on Oilseeds under MNOOP during 2018-19

Crop	Variety	No. of Farmers/ Demonstrations	Area (ha)	Average Yield (q/ha)		% Increase (Av.)	Average Cost of cultivation (Rs./ha)		Av. B:C Ratio
				Demo	Check		Demo	Check	
Groundnut	GPBD-4	25	10	8.5	6.8	25	51000	43000	1.55
Sunflower									
Linseed									
Mustard									
Rapeseed									
Sesamum									
Soybean									
Toria									
Total		25	10	8.5	6.8	25	51000	43000	

26. Cluster FLD (CFLD) on Pulses under NFSM during 2018-19

Crop	Variety	No. of Farmers / Demos	Area (ha)	Average Yield (q/ha)		% Increase (Av.)	Average Cost of cultivation (Rs./ha)		Av. B:C Ratio
				Demo	Check		Demo	Check	
Arhar									
Black gram									
Cowpea									
Field Pea									
French Beans									
Green gram									
Peas	Azad pea 3 \IPFD 10-12	23	10	920	680	35.29	23000	21000	1.82
Rajmah									
Rice bean									
Lentil									
Any other (Pl. specify)									
Total		23	10	920	680	35.29	23000	21000	

27. Literature Developed/Published (with full title, author & reference) during 2018-19

Item	Title /and Name of Journal	Authors name	Number of copies (where
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			applicable)
Research papers			
1.	<p>1. Influence of organic manures and bio-dynamic preparations on growth, yield and quality of Khasi mandarin (<i>Citrus reticulata</i> Blanco) in Mizoram, NorthEast India.</p> <p>(Indian J. Agric. Res., 52(5) 2018: 576-580)</p>	Malsawmkimi	-
2.			
3.			
Training manuals			
Technical Report			
1.			
2.			
3.			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Popular articles			

Leaflets/folders	<p>1)Purun Var Chin Dan(Garlic Cultivation)</p> <p>2)Sacha Inchi(Star Bean) Chin Dan (Star Bean Cultivation)</p> <p>3)Tomato Chin Dawna Hriattur Pawimawhte(Important packages of practices on Tomato cultivation)</p> <p>4)Wheat Chin Dan(Wheat Cultivation)</p> <p>5)Zikhlum (Cabbage)Chin Dan(Cabbage Cultivation)</p> <p>6)Capsicum(Hmarchapui) Chin dawn a hriattur pawimawhte(Important packages of practices on Capsicum cultivation)</p> <p>7)Thlasik Thlai(Rabi Crops) chin dawn a hriattur te.(Importrant Points to remember for Rabi Crops Cultivation)</p> <p>8) Azolla Chin Dan(Cultivation of Azolla)</p>	<p>Malsawmkimi</p> <p>R. Vanlaldwati</p> <p>Dr. Om Prakash</p>	-
e-publications			
Any other (Pl. specify)			
TOTAL	9		

28. Gender Issues for technological empowerment of farm women in agriculture during 2018-19

(Highlight a brief activities undertaken towards gender empowerment by your KVK with action photographs)

29. Awards and recognitions received by your KVK during 2018-19

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	3 rd Prize on Swachh Survekshan 2018	Khawzawl Town Sanitation Task Force	5000/-	Most Clean Office & Complex
	1 st Prize on Cleanliness Week 2018	Cleanliness Week Organizing Committee, Khawzawl	10,000/-	Most Clean Office & Complex

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

FLD in Paddy cum Fish Culture:

Alltogether, 20 farmers learned the modern technology of paddy cum fish culture. The farmers earned about in average an amount of Rs. 45,000 per acre. Farmers has mastered the art of breeding common carps for which some farmers engaged in fingerlings production has a surplus income of another Rs. 30,000 to 40,000 from selling of fingerlings to other surrounding villages. It has also been observedthat people from adjoining villages has preferred the locally breded fingerlings over the imported ones as it has more adaptability and bettergrowth rate. The farmers of Khawzawland adjoining villages are adopting thistechnology of paddy cum fish culture which is expected to take another massive outcome in the coming season.

31. Functional linkage of the KVK with different organizations established during 2018-19

Name of organization/ Agency	Nature of linkage	Activities
State Department of Agriculture	Trainings Diagnostic visits	Implementation of RKVY, NFSM, supply of subsidized inputs like chemicals, farm machinery etc

NABARD	Project Trainings	Implementation of Project and Trainings
ATMA	Assessment/refinement Designated expert support	Training and technical advice as Resource person
IWMP	Training	Training and technical advice as Resource person
Block Development Office	Training	Training and technical advice as Resource person

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

Note: The figure/ data/ information under each point must invariably tally with those provided in the Annual Report, 2018-19 to avoid any discrepancy while compilation.



Signature of Sr. Scientist cum Head

KVK, Champhai District