

INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Agricultural Technology Application Research Institute, Zone-VII
Umiam, Meghalaya
Annual Action Plan of
ATARI, Zone-VII for the year 2023-24

Name of the KVK/District:KVK, Thoubal

State: Manipur Host Organization: Department of Agriculture, Govt. Of Manipur

Present Staff Position in KVK:

Sl. No.	Name	Gender (M/F)	Category (General/OBC/SC/ST)	Designation	Discipline	Mobile
1.	Dr. S. Zeshmarani	F	Gen	Senior Scientist & Head	Animal Science	8415902143
2.	Kh. Premlata Devi	F	SC	Subject Matter Specialist	Horticulture	8729868615
3.	N. Tomba Singh	M	Gen	Subject Matter Specialist	Agronomy	7005432585
4.	R.K. Lembisana Devi	F	Gen	Subject Matter Specialist	Home Science	9862120799
5.	Sribidya Waikhom	F	OBC	Subject Matter Specialist	Fisheries	9612773367
6.	Dr.Chuwang Hijam	M	OBC	Subject Matter Specialist	Plant Breeding & Genetics	9774467922
7.	Longjam Boris Singh	M	OBC	Subject Matter Specialist	Plant protection	8974852548
8.	L. Babita Devi	F	Gen	Programme Assistant	Computer Science	9615156223
9.	Dr.W. Jiten Singh	M	OBC	Farm Manager	Agronomy	8787886023
10.	S.Prabin Singh	M	OBC	Program Assistant	Agriculture Extension	7005367546

11.	O.Shilhenba Singh	M	Gen	Assistant	Commerce	9862638170
12.	M. Geeta Devi	F	Gen	Stenographer		9856686887
13.	M. Hemanta Singh	M	Gen	Driver cum Mechanic		9863034574
14.	Th.Tiken Singh	M	OBC	Driver cum Mechanic		9612017230
15.	S. Dhabali Singh	M	Gen	Peon cum Chowkidar		9862985680
16.	Mangminthang Zou	M	ST	Peon cum Chowkidar		8787611192
	Total	16				

Please furnish discipline-wise information in the given format pertaining to the mandated activities of your KVK targeted to be accomplished during 2023

Discipline: Agronomy

Name of the concerned Subject Matter Specialist: Nameirakpam Tomba Singh

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Weed Management	<p>Weed management in Black gram Var. PU-31 Pre -emergence application of herbicide</p> <p>T1- Pendimethalin @ 1kg/ha at 1 DAS + 1 HW at 20-25 DAS</p> <p>T0 – Dense planting (30 kg/ha) + 1 HW at 20-25 DAS</p> <p>Management Practices-</p> <ul style="list-style-type: none"> ➤ Seed treatment: Mancozeb @ 2.5 g/kg seed. ➤ Seed rate: 22.5 kg/ha; Spacing: 30x 10cm ➤ Sowing time: 2nd Fortnight of August ➤ Fertilizer: 20:40:15 kg NPK/ha as Basal ➤ Land preparation: 3-4 ploughing followed by laddering of soil 	RARS, Shillongani, Nagaon, AAU (2015)	A	1.25	5	Hijam khunou, Ingourok, Heirok, Nongpok Sekmai, Athokpam	Aug-Oct, 2023 3 months	-	-	-	5	-	5	5

		before germination of crop and weed seeds.													
	Cropping system	Rice based cropping system of rice followed by rapeseed Rice var. RC Maniphou-15, Rapeseed var. TS-38 <ul style="list-style-type: none"> ➤ Normal transplanting of rice RC Maniphou-15 using full package of practice recommended by ICAR ➤ Zero tillage rapeseed cultivation using variety TS-38 with full package of practice for recommended by ICAR. 	ICAR, Manipur Center, 2017	A	1.25	5	Hijam khunou, Ingourok, Heirok, Nongpok Sekmai, Saram	June ,2023 to March, 2024	1	-	1	4	-	4	5

Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Cropping System	Intercropping of maize with soybean Maize Var. HQPM-5 Seed rate 15 kg/ha Spacing 90cm x 25 cm Soybean Var. VL Soya-63 Seed rate 30 kg/ha Spacing 30 cm x10cm Management- Seed treatment - Carbendazim@ 4gm/kg	ICAR, IIMR, New Delhi, 2010	7	1.75	Lourembam, Heirok, Hijam Khunou, Keirak, Langat hel	June-October, 2023 5 months	-	-	-	7	-	7	7

		seed Fertilizer dose - 80:60:30 kg NPK/ha 1/2 N, full P & K as basal, 1/4 N at knee high stage , 1/4 N Tasselling stage													
	Varietal evaluation	Scientific cultivation of hybrid maize Var. HQPM-5 Seed rate – 18-20 kg/ha Seed treatment – Carbendazim 50%WP@ 3gm/kg seed Spacing – 60x30 cm Fertilizer – 60:40:40 kg NPK/ha 1/2 N, full P and K as basal,1/4 N at knee high stage and 1/4 at Tasseling stage Weed management – Atrazine @ 0.5 -1.0 kg ai/ha in 1000 lt of water as pre-emergence followed by HW at 40 to 45 DAS	ICAR NEH Region, Arunachal Pradesh, Basar 2016	10	2.5	Salung pham, Charan gpat Heirok, Keirak, Langat hel Hijam Khunu, Loure mbam Heinga nglok Kakchi ng	June -October 2023, 5 months	2	-	2	8	-	8	10	

Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campuses	Number of beneficiaries						Remarks			
							SC/ST			General				Grand Total		
							M	F	Total	M	F	Total				
On and Off campus training programmes	Farmer and Farm women	Scientific Cultivation of maize (3)	1	June	3	On	6				-	6	9	-	9	15
		Scientific cultivation of rice (3)	1	May	3	Off	-				-	-	10	5	15	15
	Rural Youth	Organic farming	1	July	3	On	3				1	4	9	2	11	15

		Green manuring & its importance (3)												
	Extension Personnel	Multiple cropping/ Crop rotation (2)	1 1	Aug Oct	5 5	On Off	3 -	2 -	5 -	8 13	2 2	10 15	15 15	
	Civil Society													
	NGO (including school drop outs)													
Sponsored training programmes	Farmer and Farm women	Zero tillage mustard cultivation (2)	1	Sep	3	On	3	1	4	8	3	11	15	
	Rural Youth	Seed production of pulses & oilseed crops (2)	1	June	3	On	5	-	5	10	-	10	15	
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others													

Discipline: Horticulture

Name of the concerned Subject Matter Specialist : Khwairakpam Premlata Devi

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing															
	Varietal Evaluation	Performance of Garden Pea Var. Kashi Ageti ➤ Seed rate - 80kg/ha ➤ Spacing- 60 x 15cm ➤ Planting time – September-October ➤ Seed treatment - Trichoderma @ 2g/kg of seed. ➤ Nutrient requirement: NPK: 20: 60: 40kg/ha. As basal dose. FYM – 10 t/ha	ICAR IIVR Varanasi 2015	Assessment	0.5	5	Khongjom, Hayellabuk, Heirok, Wangjing and Wangbail	Sep-Nov	-	-	-	3	2	5	5
		Performance evaluation of short duration Cucumber Var.DC-83 T1- DC-83 T0- Local (kalen thabi)	IARI Pusa, New Delhi, 2018	Assessment	0.5	5	Khongjom, Hijamkhunou, Lourembam,	June-Sep	-	-	-	4	1	5	5

		Seed rate- 2kh/ha. Spacing- 60x30cm Age of seedling- 20-25 days old Sowing time- June Time of transplant –July Seed treatment- Trichoderma @ 2g/kg of seed Nutrient requirement- NPK: 100:60:50 kg/ha. N in 3 split doses, half N+full P & K as basal dose. 1/4 N after two weeks of planting, 1/4 N at flowering stage.					Wangjing and Ukhongsang								
Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries							
								SC/ST			General			Grand Total	
								M	F	Total	M	F	Total		
Front Line Demonstration	Varietal Evaluation	Popularization of French bean Var. Arka Arjun Seed rate-60kh/ha Spacing- 45x15cm Sowing time- Aug, Seed treatment- <i>Trichoderma viride</i> @2g/kg of seed Nutrient requirement – NPK: 30:40:40 kg/ha as basal dose. Local check- Local french bean(Champhut hawai)	IIHR-2013	8	0.5.	Langathel, Heingangk, Khongjom, Thoubal Okram, Ingourok	Aug-Nov	2	-	2	5	1	6	8	

		Popularization of Tomato Var. Arka Rakshak Seed rate – 500g/ha Spacing- 60cm x 45cm Planting time – Sep Seed treatment- Trichoderma@ 2g/kg of seed Nutrient requirement- NPK 100: 50:50 kh/ha, Full P & K as basal dose, 1/2 N after 15 days remaining 1/2 N after 35 DAP.	IIHR. 2016	8	0.5ha	Hijam khunou, Salungpham, Khomgiom, Charangpat, Thoubal Khunou	Sep- Dec	-	-	-	6	2	8	8
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campuses	Number of beneficiaries						Remarks	
							SC/ST			General				Grand Total
							M	F	Total	M	F	Total		
On and Off campus training programmes	Farmer and Farm women	1.Cultivation of Banana (2)	1	May	3	Off	-	-	-	10	5	15	15	
		2. Nursery management of rabi vegetable crops (3)	1	Nov	3	On	3	2	5	8	2	10	15	
		3.Production technology of tuber crops.(2)	1	Oct	3	Off	-	-	-	12	3	15	15	
		4. Natural farming (3)	1	Jan, 2024	3	On	5	-	5	5	5	15	15	
	Rural Youth	1. Training and pruning of fruit crops (2)	1	Feb, 2024	3	Off	5	-	5	6	4	10	15	
		2.Nursery management of Ornamental plants (3)	1	April	3	On	-	5	5	10	-	10	15	
Extension	Production technology	1	August	3	On	2	-	2	12	1	13	15		

	Personnel	of Exotic vegetable crops (3)													
	Civil Society														
	NGO (including school drop outs)														
	Others														
Sponsored training programmes	Farmer and Farm women	Protected cultivation of vegetable crops (2)	1	July	3	On	5	-	5	6	4	10	15	Dept of Hort. & Soil conservation, Thoubal MOMA, Dept of Hort. & Soil Conservation	
	Rural Youth	Organic farming of vegetable crops (3)	1	December	3	On	4	-	4	8	3	11	15		
	Extension Personnel	Production technology for vegetables and spices (2)	1	March, 2024	3	On	-	-	-	10	5	15	15		
	Civil Society														
	NGO(including school drop outs)														
	Others														
Vocational training programmes	Farmer and Farm women														
	Rural Youth	Protected cultivation of vegetable crops (2)	1	June	3	On	5	-	5	5	5	10	15		
	Extension Personnel														
	Civil Society														
	NGO(including school drop outs)														
	Others														

Discipline: Plant Protection

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Integrated Disease management	Management of stem rot disease in rice (2nd year) T1- ➤ Field sanitation (Summer ploughing, removal of fungal sclerotia) ➤ Balance application of recommended dose of fertilizer (N:P:K -60:40:30 Kg/ha) T0- ➤ Spraying Propiconazole 25 EC@ 2ml/ L at 10, 20 days after incidence.	ICAR NOFRI Sikkim, 2016	Assess	1.5	5	Lourembam, Ukhoingsang, Hijam Khunou, Khangabok, Langathel	July - Nov 5 mnths	-	-	-	3	2	5	5
	Integrated Disease	Management of	DOGR		0.3	5	Khek	Dec,	1	-	1	2	2	4	5

	Management	<p>purple blotch in onion (1st year) Var. Nashik Red T1- Spraying of Mancozeb @ 0.25% + Propiconazole @ 0.1% thrice at 10 days intervals from 30 DAT</p> <p>T2(Farmer Practice)- Spraying of Tebuconazole 29.5 EC @0.1%, (3 times spraying is done after infestation at weekly interval)</p>	and Junagadh Agricultural University, 2018				man, Papal, Tekham, Thoubal Okram, Kiyam Siphai	2023-March, 2024 4 months							
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	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Frontline Demonstration	Disease Management	<p>Integrated management of blast in rice Rice var. RC Maniphou 10</p> <p>➤ Seed treatment with Pseudomonas fluorescens at the rate of 10 g per kg of seeds.</p>	ICAR-NOFRI, 2016	10	1.5	Charangpat, Kiyam Siphai, Sabaltongba, Lourembam, Kakmayai, Ukhongsang, Sikhong,	July-Nov, 2023	2	1	3	5	2	7	10

		<ul style="list-style-type: none"> ➤ Spraying of copper oxychloride @ 0.25% twice after 30 & 60 DAT. ➤ Application of recommended dose of fertilizer (60:40:30 N:P:K Kg/Ha) 				Chandrak hong									
		<p>Popularization of Organic management of painted bug, aphid and sawfly in mustard</p> <p>Mustard Var. NRCHB-101 Bacillus thuringiensis @2ml/ L (750 ml/ha)</p> <p>Spraying at 1, 3, 7, 10 days interval after infestation.</p>	ICAR NOFRI, Tadong, Sikkim 2014	10	0.5	Wabagai, Ingourok, Umathel, Shikhong, Kakmayai , Ukhongsa ng, Kiyam Siphai, Chandrak hong	Nov,2023 - Feb, 2024	2	1	3	5	2	7	10	
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/ Off campus	Number of beneficiaries						Remarks		
							SC/ST			General				Grand Total	
							M	F	Total	M	F	Total			
On and Off campus training programmes	Farmer and Farm women	Management of shoot and fruit borer in Brinjal (2) Management practices	1	July	3	Off				13	2	15	15		

		of neck blast in rice (2)	1	September	3	Off				11	4	15	15	
		Diseases and pests management in Potato (4)	1	October	3	On	5	-	5	10	-	10	15	
	Rural Youth	Production of biopesticide (3)	1	April	3	On	3	2	5	8	2	10	15	
		Leaf curl,thrips and mite management in chilli (2)	1	June	3	Off				10	5	15	15	
		Managemnt of purple blotch in onion (2)	1	January 2024	3	On	3	2	5	10	-	10	15	
	Extension Personnel	Organic strategies in Crop Production (6)	1	February	3	On	3	0	3	10	2	12	15	
	Civil Society													
Vocational Training programmes	Farmer and Farm women													
	Rural Youth	Cultivation of paddy straw mushroom (3)	1	March	5	On	5	-	5	10	-	10	15	
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
Sponsored Training programmes														
	Farmer and Farm Women	IPM strategies for hoppers and borers management in rice (4)	1	August	3	on	2	-	2	11	2	13	15	

Discipline: PBG/ Seed Technology

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Asses s/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Vareital Evaluation	Assessment of bio fortified Pearl millet Var. ABV-04 (Biofortified with Zn & Fe) T1- ABV-04 T0- Pusa Composite - 701 Management practices ➤ Seed rate : 5Kg/ha (Drilling method) ➤ Seed treatment: <i>Trichoderma harzianum</i> @ 4gm/kg seed ➤ One deep ploughing with MB plough, followed by 2-3 cultivator ploughing/harrowing and planking ➤ Fertilizer: NPK (60 : 40: 30) Kg/ha; Full P and	ANGRAU , Ananthapuram, 2018	Asses sed	1.5 ha	5	Umathel, Heinganglok, Salungpham, Keirak & Pallel	June to Oct, 2023 5 months	1	-	1	3	1	4	5

		<p>K and ½ dose of N at the time of sowing in furrow and rest of N through top dressing 20-25 DAS and at ear formation stage</p> <ul style="list-style-type: none"> ➤ Spacing : (40x 10) cm ➤ Sowing time: Mid June to 3rd week of July 													
Varietal Evaluation	<p>Performance assessment of rice varieties Var. RC Maniphou 15 & RC Maniphou 16 T1- RC Maniphou 15 T2 -RC Maniphou 16 T0-RC Maniphou 13</p> <p>Seed rate: 40 Kg /ha Seed treatment: Carbendazim @ 4gm/kg seed Plant Geometry (Row X Plant): 20 cm X 15 cm Fertilizers recommendations: 60:40:30 Kg/ha (N:P:K); ½ N, full P & 2/3 K as basal; ¼ N at 25-30 DAT & ¼ N + 1/3 K at P.I stage</p>	ICAR, Manipur Center, 2021	Assessed	3	3	Lourembam, Kakching & Nongpok Sekmai	May to Aug , 2023 110 to 115 days	1	-	1	2	-	2	3	

		Transplanting: 2-3 seedlings per hill Transplanting age: 21-25 DAS												
Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Frontline Demonstration	Varietal Evaluation	Popularization of Biofortified Lentil Var. IPL 220 (Biofortified with Zn & Fe) <ul style="list-style-type: none"> ➤ Seed rate - 40kg/ha, ➤ Seed treatment - <i>Trichoderma viride</i> 4g/kg seed; ➤ Fertilizer: NPK@20:40:20kg/ha as basal dose 	IIPR Kanpur,2018	10	2.5	Ingourok, Nongpok Sekmai, Ukhongsang, Lourembam, Thoubal Kshetri leikai, Thoubal Ningombam, Thoubal Wangmataba	Nov 2023- Feb 2024 110-120 days	1	-	1	7	2	9	10
	Seed Production	Seed production of Pre-Kharif Rice Var. RC Maniphou-12 <ul style="list-style-type: none"> ➤ Seed rate : 60 kg /ha (Transplanted); No. of Plant/hill: 1 ➤ Days of Transplanting: 21 to 25 days ➤ Seed treatment : <i>Trichoderma viride</i> @ 4 gm/kg seed 	ICAR Manipur Center, 2018	10	2.5	Ingourok, Nongpok sekmai, Ukhongsang, Lourembam, Thoubal Kshetri leikai, Kiyam Siphai	April 2023- July 2023 115-120 days	-	-	-	10	-	10	10

		<ul style="list-style-type: none"> ➤ Spacing: (20 X 10) cm ➤ Isolation distance: 3m ➤ Fertilizers application : NPK @60:40:30 kg/ha, ½ N, full P and 2/3 K as basal, ¼ N at 25-30 DAT and ¼ N + 1/3 K at panicle initiation stage ➤ Roguing : 2 times (Vegetative and ripening stage) 												
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campuses	Number of beneficiaries						Grand Total	Remarks
							SC/ST			General				
							M	F	Total	M	F	Total		
On and Off campus training programmes	Farmer and Farm women	importance of quality seeds for enhancing productivity (2)	1	April, 2023	1	On				10	5	15	15	
		Cultivation & seed production of major millets (3)	1	June, 2023		OFF				10	5	15	15	
		Organic seed production (3)	1	Aug, 2023		OFF	5	5	10	3	2	5	15	
		Awareness program on selection of suitable varieties, newly released varieties and their special characteristics (2)	1	Nov, 2023		On				7	8	15	15	

	Rural Youth	prevention of varietal deterioration of field crops (2)	1	May, 2023		On	3	2	5	10		10	15	
		Scientific management of critical inputs for crop production (3)	1	July, 2023		OFF				13	2	15	15	
		cultivation practice of rabi Sorghum (3)	1	Sep, 2023		OFF				12	3	15	15	
		Training program on sustainable agriculture (2)	1	Oct, 2023		ON	2	1	3	12		12	15	
	Extension Personnel	1. Intellectual property rights (6) 2. hybrid seed production of cereals (6)	1	Dec, 2023		ON	2	2	4	9	2	11	15	
		1	Jan, 2024		ON	5		5	10		10	15		
Civil Society	Impact of climate change in agriculture (3)	1	Feb, 2024		OFF				10	5	15	15		
NGO (including school drop outs)														
Others														
Sponsored training programmes	Farmer and Farm women	Importance of genetic resource conservation technology (3)	1	March 2024		ON	3	2		8	2	10	15	
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO													
	Others													

Discipline: Fisheries

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess /Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing															
	Feeding Management	<p>Periphyton based fish farming</p> <ul style="list-style-type: none"> ➤ Stocking density – 8000 fingerlings/ha. ➤ Fish species – (IMC)- Catla, Rohu, Mrigal (30:40:30) <p>T1:</p> <ul style="list-style-type: none"> ➤ Feeding- RB : MOC (1:1) @ 2% bw once a day ➤ Substrate for periphyton- Bamboo pole (Split into 4) ➤ Spacing for bamboo pole – 3X3 ft ➤ Spreading of bamboo poles - 1/3 of pond surface ➤ No. of bamboo required for 0.25 ha – 180 nos. <p>T2:</p> <ul style="list-style-type: none"> ➤ Feeding- RB : MOC (1:1) @ 2% bw once 	ICAR-CIFA, Bubhaneswar, 2016	A	1.25	5	Lilong, Kiyam Siphai, Khangabok, Tentha, Thoubal Khunou	June-January	-	-	-	5	-	5	5

		a day ➤ No substrate													
	Pond Management	Performance assessment of monoculture of air breathing fish (<i>Anabas testudineus</i>) ➤ Stocking density- 8500 fry per 0.1 ha ➤ Species - Anabas ➤ Culture period - 4 months T1: ➤ Feeding- Pellet feed @ 3% bw twice daily T2: ➤ Feeding- RB : MOC (1:1) @ 2% bw once a day	ICAR-CIFA, Bubhaneswar, 2016	A	0.5	5	Nongangkong, Khangabok, Hiyanglam, Wabagai, Tentha	June-Aug	-	-	-	5	-	5	5
Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demo n (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries							
								SC/ST			General			Grand Total	
								M	F	Total	M	F	Total		
Front Line Demonstration	Fish breeding	Seed production of walking cat fish (<i>Clarias magur</i>) using BRICS method ➤ Selection of brooder ➤ Hormone administration: ➤ 1st dose: ovatide @ 0.5ml per Kg body weight both Male & Female; ➤ 2nd dose: Oxytocin @40 milli IU after 12 hrs of ovatide injection in both Male & Female	College of Fisheries, CAU(I), Lembucherra, 2020	10	-	Salungpham, Hijam Khunou, Lourebam, Tentha, Hiyanglam, Okram, Wabagai, Komnao, Kiyam Siphai	June-August	-	-	-	10	-	10	10	

		<ul style="list-style-type: none"> ➤ Removal of brooders after 24 hrs of injection ➤ Incubation of eggs in the tank with water flow @ 0.3-0.5 litre/min; ➤ Incubation period: 24-30 hours. 													
Fish breeding	Seed production of climbing perch (<i>Anabas testudineus</i>) <ul style="list-style-type: none"> ➤ Selection of brooder. ➤ Injecting with ovatide hormone: Male- 0.25-0.5 µl/g bwt; Female- 0.5-1.0 µl/g bwt; ➤ Releasing of brooder in breeding pool ➤ Spawning time: 7- 8 hours after hormone injection. ➤ Incubation of fertilized egg in stagnant water in plastic tubs ➤ Incubation period: 12-15 hrs. 	ICAR-CIFA, Bhubaneswar, 2016	10	-	Wabagai, Hiyanglam, Langmeidong, Tentha, Charangpat, Athokpam, Tekcham, Thoubal Khunou	June-September	-	-	-	9	1	10	10		

Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campus	Number of beneficiaries						Remarks	
							SC/ST			General				Grand Total
							M	F	Total	M	F	Total		
On and Off campus training programmes	Farmer and Farm woman	Quality fish seed production (2)	1	April	2	Off	-	-	-	13	2	15	15	
		Pre and post stocking management of fish farming (3)	3	May	3	On	2	-	2	10	3	13	15	
		Carp seed production	1	June	3	On	1	-	1	14	-	14	15	

		and hatchery management (3)												
		Nursery & rearing pond management for fish seed of major carps(3)	1	July	3	Off	-	-	-	10	5	15	15	
	Rural Youth	Water quality management in fresh water aquaculture (2)	2	Aug	1	Off	-	-	-	12	3	15	15	
		Pond based Integrated Farming system (4)	1	Sep	3	On	-	-	-	-	15	-	15	
	Extension Personnel	Recent advances in fisheries and aquaculture (2)	1	Nov	3	On	-	-	-	10	5	-	15	
	NGO (including school drop outs)													
Vocational training programmes	Farmer and Farm women													
	Rural Youth	Model integrated aquaculture system (4)	1	Jan	10	On	-	-	-	5	10	15	15	
	Extension Personnel													
	Civil Societ													

	y														
	NGO (including school drop outs)														
Sponsored training programmes	Farmer and Farm women														
	Fish breeding and feeding management (3)	1	April	1	On	-	-	-	-	30	-	30			

Discipline: Home Science

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Value addition	Preparation of multi grain millet cookies ➤ Beat 50g butter & Sugar powder (30gm) till fluffy ➤ Add millet flour 100g (Ragi, Sorghum, Bajara) till soft dough and add 5ml vanilla essence. ➤ Spread out dough on butter paper & roll it. ➤ Cut into shapes & perforate it ➤ Bake it for 15 min at 180° in pre heated oven	ICAR, IIMR, Hyderabad, 2018	Assess		3	Kakching, Khangabok, Charangpat	July-Dec 2023 6months	-	1	1	-	2	2	3
	Value addition	Preparation of Pomelo Jam T1- 100% Pomelo T2 -50% pomelo pulp 50% papaya pulp	University of Agricultural Science, Bangalore, 2015	Assess		5	Khangabok, Heirolong Chingham Kakching Keirak	Oct - Dec	-	1	1	-	4	4	5

Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Value addition	Popularisation of Gauva Cheese Ingredients - Pulp :Sugar (kg) - 1:1.25 , Citric acid (gm) - 3 , Butter (gm) -60 1 kg firm ripe gauva pulp cooked to a thick paste Addition of 1.25 kg sugar Addition of citric acid@ 1.5 gm & butter 60gm/kg Spread the hot cheese in oil smeared tray & set to cool down & cut into desired shape	ICAR, Umiam 2014	10		Khangabok, Ingourok, Ukhongsang , Kakching,	Sep- Dec 2023	1	2	3	1	6	7	10
		Osmotic dehydration of pineapple ➤ Washing and grading , Peeling of fruit and preparation of fruit pieces ➤ Potassium meta bisulphite pre treatment @ 1.5gm/kg for 8h before osmosis.	Navsari Agricultural University ,Gujarat , 2017	10		Langmeithet ,Keirak, Saram, Thoubal , Kakching, Khangabok	July- Nov,2023	1	1	2	1	7	8	10

		<ul style="list-style-type: none"> ➤ Dipping in sugar syrup(60) degree brix sugar syrup concentration for 24 hours ➤ Draining and Drying (sundry for 2 days) 												
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Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campuses	Number of beneficiaries						Remarks		
							SC/ST			General				Grand Total	
							M	F	Total	M	F	Total			
On and Off campus training programmes	Farmer and Farm women	Value addition of Sorghum/Finger millet (3)	1	April	3	Off/On	-	-	-	-	15	15	15		
		Preservation technique of fresh mango(2)	1	May	3	Off/On	5	10	15	-	-	-	15		
		Preparation of value added pineapple products (3)	1	July	3	Off	-	-	-	5	10	15	15		
		Preparation of multigrain millet value added products (2)	1	August	3	Off	2	5	7	2	6	8	15		
		Value addition of guava (2)	1	September	3	On		3	3	2	10	12	15		
		Preparation of Pomelo Jam (2)		Oct/Nov	3	On		5		-	10	10	15		
		Rural Youth	Demonstration on	2	Decem	3	Off	5	5	10	5	15	20		30

		preparation of protein based food from HQPM (3)		ber										
	Extension Personnel	Preparation of Banana Flour (4)	1	Novem ber	3	On	-	5	5	--	10	--	15	
	Civil Society													
	NGO (including school drop outs)													
	Others													
Vocational training programmes	Farmer and Farm women													
	Rural Youth	Value addition of seasonal fruits and vegetables (6)	1	Octobe r	3	On		5	5	-	10	15	15	
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others													

Discipline: Agriculture Extension

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Mandate activities	Thematic Area	Details of Technology	Source and Year of release	Assess/Refine	Area (in Ha)	No of trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Impact assessment	<p>Assessment on Knowledge, Attitude and Perception of Millets</p> <p>Sample of 120 farmers will be selected Data will be collected using a structural self-explanatory interview schedule. Data will be analyzed through mean, frequency and percentage</p>	Gagan deep Kaur Grewal and Kiran Jyoti: Knowledge, Attitude and Perception (KAP) of Farmers for using Information and Communication Technology in	A		120	KVK district	May-Nov	20	10	30	70	20	90	120

			Agriculture in Punjab, India. IJCSEI TR,5(6):7-12 & 2015											
Mandated activities	Thematic Area	Technology	Source and Year of release	Demon (No.)	Area (in Ha)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Impact assessment	Demonstration on Nano urea using Agricultural drone technology Sample of 10 farmers will be selected Data will be collected using a structural self-explanatory interview schedule. Data will be analysed through mean, frequency and percentage.	-	10	-	KVK, District Thoubal & Kakching district	July-Sep	3	2	5	3	2	5	10
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Duration (in days)	On/Off campuses	Number of beneficiaries						Remarks	
						SC/ST			General			Grand Total		
						M	F	Total	M	F	Total			

On and Off campus training programmes	Farmer and Farm women	Role of group dynamics in formation of farm organization.(2)	1	May	3	On	3	2	5	8	2	10	15	
		Concept of SHG,FC & its role in agriculture development (2)	2	July, Aug	3	On Off	3	2	5	8 11	2 4	10 15	15	
	Rural Youth	Agriculture marketing & Agri. Business management. (2)	1	Sep	3	On	2	2	4	8	3	15	15	
		Mobilization of social capital in villages (3)	1	Nov	3	off				10	5	15	15	
	Extension Personnel	Methodology for data collection (2)	1	Dec	3	On	2		2	10	3	13	15	
	Civil Society													
NGO (including school drop outs)														
Sponsored training programmes	Farmer and Farm women	Need analysis through PRA-RRA (3)	1	Oct	3	on	3	2	5	8	2	10	15	
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
Vocational training programmes	Rural Youth	Rural youth as para - extension worker (2)	1	Jan, 2024	3	On	3	2	5	7	3	10	15	

EXTENSION ACTIVITIES PROPOSED FOR THE YEAR 2023

Specific activity	No. of activities	Period of the year	Duration (in days)	Number of beneficiaries (No.)							
				SC/ST			General			Grand Total	
				M	F	Total	M	F	Total	M	F
Diagnostic visit	36	Throughout the year		35	30	65	105	90	195	1400	120
Advisory services/ telephone talk	1200	Throughout the year		250	50	300	750	150	900	900	300
Training Manual	10										
Celebration of Important days	5			25	20	45	75	55	130	100	75
Exhibition	3			30	40	70	120	130	250	150	170
Exposure visit	10										
Extension literature (Leaflet/ folders/ Pamphlets)	18										
Extension / technical bulletin	6										
News letter	1										
News paper coverage	12										
Research publications	6										
Success stories/ Case studies	6										
Farm Science Clubs' Convenors meet	31			56	44	100	100	63	163	156	107
Farmers' Seminar	2										
Farmers' visit to KVKs	1500			120	75	195	1150	275	1450	1150	350
Ex-trainees' meet	3										
Field day	3						95	55	150	95	55
Film show	10			35	20	55	670	175	845	705	195
Radio Talk	12										
TV talk	8										
Kisan Gosthi	2						45	25	70	45	25
Group Meeting	10			35	25	60	150	90	240	165	115
Kisan Mela	1			10	20	30	30	25	55	40	45
Soil Health Camps	3			15	20	35	155	70	225	170	90

Animal Health Camps	2			30	15	45	45	50	95	75	65
Awareness camp Mobile Agro-Advisory (Messages/ Beneficiaries)	600			1300	950	2250	1600	1450	3050	2900	2400
Method demonstration	16			20	30	50	20	30	60	40	70
Scientists' visit to farmers' field	60			15	10	25	370	155	525	385	165
Workshop/ Seminar	1										
Soil Testing	250			35	20	55	600	345	945	635	365
Water Testing	200			20	10	30	130	40	170	150	50
Plant Testing											
Manure Testing											
Any other (Pl. Specify)											

ACTIVITY CALENDAR OF THE KVK (MONTH-WISE TARGET TO BE COMPLETED) FOR THE YEAR 2023

KVK: KVK,Thoubal

Activity/ Month	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
OFT (No.s.)													
i. Number of Technologies		3	5	2	1	1	1	-	1	-	-	-	14
i. Number of Trials		15	25	8	5	5	5	-	5	-	-	-	68
ii. Area (ha)/ items (no.)			5	1.5	1.25	0.5	-	-	0.3				
FLD (Nos.)													
i. Number	10	-	37	30	8	18	-	20	10			0	133
ii. Area(ha)/ items (no.)	2.5	-	4.25	1.5	0.5	0.5	-	3	2.5				
Training programme													
Farmer													
i. No. of course	3	2	3	3	3	3	3	3	3	3	3	2	34
ii. No. of participants	45	30	45	45	45	45	45	45	45	45	45	30	
Rural Youth													
i. No. of course	2	2	3	3	2	3	3	1	4	3	1	2	29
ii. No. Of participants	30	30	45	45	30	45	45	15	60	45	15	30	435
Ext. Personnel													
i. No. of course	-	-	-	-	2	-	2	2	3	1	1	2	13
ii. No. Of participants	-	-	-	-	30	-	30	30	45	15	15	30	195
Extension Activities/ programmes													
i. No. of activities	5	9	4	4	7	7	7	7	10	7	10	7	85
ii. No. of beneficiaries	600	600	600	1000	1000	1500	1200	800	1000	850	670	680	10500
Seeds production (tonnes)	2				1.5		10.3	12.0			2	3.8	31.6
Planting materials (Nos. in Lakh)	0.005	0	0	0	0.065	0.055	0.42	0.4	0	0.1	0.035	-	1.08

Livestock strains (No.)	80	200	200					100	200	100			10880
Fingerlings (No. in lakh)					0.06	0.02	0.02						0.10
Bio-agents/ products (tonnes)													
Bio-fertilizers/ Vermicompost etc. (in Tonnes)	0.1	-	0.1	-	0.1	-	-	0.1	-	-	-	0.1	0.5
Soil , Water, Plant, Manures Testing (No. of samples to be tested)	37	37	37	20	37	37	30	37	42	37	45	54	450
Soil , Water, Plant, Manures Testing (No. of farmers benefitted)	148	150	150	80	87	110	85	85	213	150	180	210	1200
Soil , Water, Plant, Manures Testing (No. of villages covered)	2	2	2	2	1	1	1	1	7	2	2	2	25
Mobile Agro-Advisory (No. of Messages)	130	130	130	130	130	130	130	130	130	130	130	120	1550
Mobile Agro-Advisory (No. of Farmers)	450	450	300	300	400	500	470	400	450	490	450	470	5130