INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Agricultural Technology Application Research Institute, Zone-III
Umiam, Meghalaya
Format for Annual Action Plan Formulation of KVKs 2022

Name of the KVK/District: KVK,Thoubal

Present Staff Position in KVK: KVK,Thoubal

Sl. No.	Name	Gender (M/F)	Category (General/OBC/SC/ST)	Designation	Discipline
1.	Dr. S. Zeshmarani	F	Gen	Senior Scientist & Head	Animal Science
2.	Kh. Premlata Devi	F	SC	SMS	Horticulture
3.	N. Tomba Singh	M	Gen	SMS	Agronomy
4.	R.K. Lembisana Devi	F	Gen	SMS	Home Science
5.	Sribidya Waikhom	F	OBC	SMS	Fisheries
6.	Dr.Chuwang Hijam	M	OBC	SMS	Plant Breeding and Genetics
7.	Longjam Boris Singh	M	OBC	SMS	Plant Protection
8.	Dr. W. Jiten Singh	M	OBC	Farm Manager	Agronomy
9.	L. Babita Devi	F	Gen	Program Assistant	Computer
10.	O.Shilhenba Singh	M	Gen	Assistant	Commerce

11.	S.Prabin Singh	M	OBC	Programme Assistant	Agriculture Extension
12.	M. Geeta Devi	F	Gen	Steno cum Computer Operator	
13.	M. Hemanta Singh	M	Gen	Driver cum Mechanic	
14.	Th.Tiken Singh	M	OBC	Driver cum Mechanic	
15.	S. Dhabali Singh	M	Gen	Peon cum Chowkidar	
16.	Mangminthang Zou	M	ST	Peon cum chowkidar	
Total :					

Please furnish discipline-wise information in the given format pertaining to the mandated activities of your KVK targeted to be accomplished during 2022

Discipline: **Agronomy.**

Name of the concerned Subject Matter Specialist: N.Tomba Singh **Mobile No: 7005432585**

E-mail address: tombanameirakpam64@gmail.com

Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess /Refine	Area (in Ha)	No. of trials	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Varietal evaluation	-	-	-	-		-	-	-	-	-	-	-	-	-
	Seed Production	-	-	-	-		-	-	-	-	-	-	-	-	-
	Integrated Weed Management	**Weed management in kharif Blackgram Var. PU-31** **Pre-emergence application of herbicide** • **T1- Pendimethalin @ 1kg/ha at 1 DAS + 1 HW at 20-25 DAS** • **T2- Fluchloralin @ 1 kg/ha at 1 DAS + 1 HW at 20-25 DAS** • **T3 – Dense planting (30 kg/ha) + 1 HW at 20-25 DAS** ➢ Seed treatment: Trichoderma viride @4 g/kg seed. ➢ Seed rate: 22.5 kg/ha; Spacing: 30x 10cm ➢ Sowing time: Mid Aug-mid Sept ➢ Fertilizer: 20:40:15 kg NPK/ha as Basal ➢ Land preparation: 3-4	RARS, Shillongani, Nagaon, AAU (2015)	A	1.25	5	Hijam khunou, Ingourok, Heirok, Nongpok Sekmai, Saram	Aug-Oct 90 days	1	-	1	4	-	4	5

		ploughing followed by laddering of seed before germination of crop and weed seeds.															
	Integrated Nutrient Management	**Zinc Management in low land Pre-kharif rice** **T1- $ZnSO_4$@ 25 kg/ha (basal)** **T2 -$ZnSO_4$@20 kg/ha (basal)** **T3-without $ZnSO_4$** ➢ **Seed treatment: Mancozeb @ 2.5 g/kg seed.** ➢ **Spacing : 15 x 15 cm** ➢ **Fertilizer : NPK @ 60:40:30 kg/ha. ½ N, full P & 2/3 K as basal; ¼ N at 25-30 DAT & ¼ N + 1/3 K at P.I stage**	RARS, Shillongani, Nagaon, AAU (2015)	A	1.25	5	Sekmaijin, Sabaltongba, Khekman, Leishangthem, Kiyam Siphai	March-June 90 days	-	-	-	5	-	5	5
	Integrated Water Management		-	-	-		-	-	-	-	-	-	-	-	-	-	
	Tillage Management/ Farm Machinery		-	-	-		-	-	-	-	-	-	-	-	-	-	
	Integrated Farming System/ Integrated Crop Management																
	Others (Pl. specify)																

Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in Ha)	Demon Nos	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	

Front Line Demonstration	Varietal evaluation	**Improved cultivation of Field pea Var. Prakash** ➢ Seed rate – 80kg/ha ➢ Seed treatment – Carbendazim @ 3 gm/kg seed ➢ Spacing – 30x10 cm ➢ Fertilizer – 20:40:30 kg NPK/ha as basal ➢ Weed management – Pendimethalin @1lt/ha as basal followed by 1 HW at 25-30 DAS	IIPR Kanpur, 2012	8	2.0	10	Wangjing, Heirok, Ingourok, Hijam Khunou, Ukhongsang	Nov,2022-March 2023	-	-	-	7	1	8	8
	Integrated Weed Management															
	Integrated Nutrient Management	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Integrated Water Management	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Tillage Management/ Farm Machinery	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Integrated Farming System/ Integrated Crop Management	**Intercropping of maize with soybean** Maize var. HQPM-5 and Soybean var. **VL Soys 63** in 1:2 ratio **Seed rate-** Maize : 15 kg/ha	ICAR, IIMR, New Delhi, 2010	7	1.75	10	Lourembam, Heirok, Hijam khunou, Keirak, Langathel	June - October	-	-	-	5	2	7	7

		Soybean : 30 kg/ha **Spacing -** Maize : 90 cm x 25 cm Soybean : 30 x 30 cm**Fertilizer dose –** 80:30:60 kg NPK/ha 1/2 N, full P & K as basal, 1/4 N at knee high stage , 1/4 N at Taselling stage													
	Others (Pl. specify)														

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	Pre kharif rice cultivation	1	April	3	off				15	-	15	15	
		Scientific cultivation of rice(1)	1	May	3	Off	-	-	-	10	5	15	15	
		Intercropping of Maize with pulses & oilseeds	1	June	2	Off	-	-	-	10	5	15	15	
		Scientific cultivation of kharif pulses & oilseeds(1)	1	July	3	On	-	-	-	10	5	15	15	
		Multiple cropping(1)	1	Sep	3	Off	-	-	-	10	5	15	15	
		Nutrient management of rice(1)	1	Aug	3	Off	-	-	-	15	-	15	15	
		Scientific cultivation of Rabi pulses & oilseeds(1)	1	Oct	3	On	15	-	15	-	-	-	15	
		Scientific cultivation of Rabi maize(1)	1	Nov	3	Off	-	-	-	15	-	15	15	
	Rural Youth	Seed production of rice	1	July	3	On	-	-	-	10	5	15	15	
		Seed production of pulses& oilseeds	1	Oct	2	Off	-	-	-	15	-	15	15	
		Organic farming	1	Sept.	3	Off	-	-	-	13	2	15	15	
	Extension Personnel	Scientific cultivation of rapeseed mustard under zero tillage condition	1	Sept	1	On	-	-	-	10	5	15	15	
		Green manuring	1	Dec.	1	Off	-	-	-	15	-	15	15	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO (including school drop outs)	-	-	-	-	-	-	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
onal trainin g progra	Farmer and Farm women	Skill training for intercultural operation of field crops	1	Nov	1	on	-	-	-	10	5	15	15	
	Rural Youth	Seed production	1	Sept.	15	on	-	-	-	10	5	15	15	

	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)	Seed production of pulses	2	Sept.	10	off	-	-	-	13	2	15	15	
	Others													

Sponsored training programmes														**Sponsoring agency**
	Farmer and Farm women	-	-	-	-	-	-	-	-	-	-	-	-	
	Rural Youth	-	-	-	-	-	-	-	-	-	-	-	-	
	Extension Personnel	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO(including school drop-outs)	Integrated farming system	1	Oct.	3	Off	-	-	-	10	5	15	15	MSFAC
	Others (Pl. specify)													

Discipline: **Horticulture**

Name of the concerned Subject Matter Specialist: Kh.Premlata Devi **Mobile No: 8729820393**

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess /Refine	Area (in Ha)	No of trials	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 *Kharif* Cauliflower Var. DC31** T1 - DC31 T2- KTH-301 T3- Candid Charm ➢ **Seed rate :450g/ha** ➢ **Spacing: 60 x 45 cm** ➢ **Sowing time : June, 2022** ➢ **Time of Transplanting : July, 2022** ➢ **Seed treatment : *Trichoderma viride* @ 4g/kg of seed.** ➢ **Nutrient requirement: NPK: 120: 60: 100kg/ha. N in 3 splits , ½ N + full P & K as basal dose. ¼ N at 15 DAT and ¼ N at flowering stage.**	**IARI, Pusa New Delhi, 2014,**	A	0.25	**5**	**Langmeithet, Uyal, Lourembam, Tentha and Wangjing**	June-July 65-70 days	-	-	-	4	1	5	5
		Performance of Cucumber Var.DC-83 **T1- DC-83** **T2 - DGCH-18** **T3- Local (Chinjin Thabi)** ➢ **Seed rate - 2kg/ha**	**ICAR - IARI, Pusa New Delhi, 2018**	A	0.5	**5**	**Khongjom, Hijam khunou, Salungpham, Wangjing and**	March-55-60 days				5	-	5	5

		➢ **Spacing- 60 x 30 cm** ➢ **Planting time – March** ➢ **Seed treatment - *Trichodermaviride* @ 4g/kg of seed.** ➢ **Nutrient requirement - NPK: 100: 60: 50kg/ha. N in 3 split doses, ½ N + full P and K as basal dose. ¼ N after two weeks of planting , ¼ N at flowering stage.**					**Ukhong sang**								
	Seed Production	-	-	-	-		-	-	-	-	-	-	-	-	-
	Integrated Weed Management														
	Integrated Nutrient Management														
	Integrated Water Management		-	-	-		-	-	-	-	-	-	-	-	-
	Tillage Management/ Farm Machinery		-	-	-		-	-	-	-	-	-	-	-	-
	Integrated Farming System/ Integrated Crop Management														
	Others (Pl. specify)														

Mandated activities	**Thematic Area**	**Technology/Crop/Cropping system**	**Source and Year of release**	**Demon (No.)**	**Area (in Ha)**	**Demon (Nos.)**	**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 tripple resistant tomato variety Arka Rakshak** ➢ Seed rate: 500 g/ha ➢ Spacing: 60 x 45 cm ➢ Planting time : March ➢ Seed treatment: *Trichoderma* @ 2g/kg of seed. ➢ Nutrient requirement: NPK 100: 50: 50kg/ha. Full P and K as basal, ½ N after 15 days remaining ½ N after 35 DAT	IIHR, Bengaluru, 2016	8	0.5	10	Hijam Khunou, Salungpham, Khonjom, Charangpat, Thoubal khunou	March 120 days	1	-	1	6	1	7	8
		Popularization of high yielding French bean Var. Arka Arjun ➢ Seed rate: 60kg/ha ➢ Spacing: 45 x 15 cm ➢ Sowing time :March ➢ Seed treatment: *Trichoderma* @ 2g/kg of seed. ➢ Nutrient requirement: NPK: 30: 60: 40kg/ha as basal dose.	IIHR, 2013	8	0.5	10	Langathel, Heinganglok,Khongjom, Thoubal Okram, Ingourok	March 70 days	1	-	1	6	1	7	8

	Integrated Weed Management															
	Integrated Nutrient Management	-	-	-	-		-	-	-	-	-	-	-	-	-	
	Integrated Water Management	-	-	-	-		-	-	-	-	-	-	-	-	-	
	Tillage Management/ Farm Machinery	-	-	-	-		-	-	-	-	-	-	-	-	-	
	Integrated Farming System/ Integrated Crop Management															
	Others (Pl. specify)															

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**	Scientific cultivation of kharif cauliflower	1	April	3	Off				12	3	15	
		Scientific cultivation of winter crops	1	Oct	3	on	0	0	-	10	5	15	
		Protected cultivation of vegetable crops	1	Dec	3	off	10	5	15	0	0	-	
		Production Technology	1	Jan	3	on	0	0	-	5	10	15	

		of tuber crops												
		Nursery management of summer vegetable crops	1	Feb	3	off	0	0	-	6	9	15		
		Postharvest management of bulb crops	1	July	3	Off	0	0		8	7	15		
		Nursery management of rabi vegetable crops	1	Septe mber	3	Off	10	5	15	-	-	-		
	Rural Youth	Propagation techniques of fruit crops	1	Nov	3	on	0	0	-	10	5	15		
		Scientific cultivation of Dragon fruit	1	March	3	on	0	0	-	12	3	15		
		Ornamental flowers	1	May	3	off	10	5	15	-	-			
	Extension Personnel	High density planting in fruits	1	June	3	On	-	-	-	12	3	15		
	Civil Society													
	NGO (including school drop outs)	-	-	-	-	-	-	-	-	-	-	-		
	Others	-	-	-	-	-	-	-	-	-	-	-		

Vocational training programmes	Farmer and Farm women													
	Rural Youth	Protected cultivation of vegetable crops	1	June	15		On	5	-	5	8	2	10	15
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others													
Sponsored training programmes														**Sponsoring agency**
	Farmer and Farm women	Organic farming of vegetable crops	1	August	3		On	5	-	5	8	2	10	15	MOMA Manipur Organic Mission Agency
	Rural Youth		-	-	-		-	-	-	-	-	-	-	-	
	Extension Personnel	-	-	-	-		-	-	-	-	-	-	-	-	
	NGO(including school drop-outs)														
	Others (Pl. specify)														

Discipline: Plant breeding & Genetics

Name of the concerned Subject Matter Specialist :..Dr.Chuwang Hijam..... **MobileNo:**..9774467922.....

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Mandated activities	Thematic Area	Details of Technology	Source and Year of release	Assess /Refine	Area (in ha.)	No of trials	Location	Period and Duration	Number of beneficiaries/ trials						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Varietal / hybrid evaluation	**Performance evaluation of Biofortified Lentil Var. IPL 220** **T1- IPL 220** **T2 -L4727** **T3- HUL 57** ➢ **Seed rate - 40kg/ha,** ➢ **Seed treatment – Trichoderma viride@42gm/kg seed;** ➢ **Fertilizer: NPK@18:46:20kg/ha,2/3 N full P and K as basal dose, 1/3 N at flowering stage**	IIPR Kanpur,2018	A	1.5	5	Hijam Khunou, Salungpham,Thoubal Ningombam, Nongpok Sekmai, Khangabok	Nov, 150 days				5	-	5	5

		Performance of hybrid Maize Var. DMRH-1308 **T1- DMRH 1308** **T2- HQPM-5** **T3- Farm Sona Hybrid-9544** Seed Treatment: *Trichoderma viride* 4g/kg seed; Seed rate: 10 Kg /ha Plant Geometry (Row X Plant): 75 cm X 30 cm Fertilizers recommendations: 120:60:60 Kg/ha (N:P:K) Weed management: Oxyflouorfen 23.5% EC (500g/ha) as pre emergence followed by 2,4-D Amine 0.4 kg a.i/ha at 25 DAS as post emergence.	DMRH, New Delhi 2017	A	0.375	**5**	**Heinganglok, Salungpham, Thoubal Wangmatab a, Nongpok Sekmai**	May, 120 days	-	-	-	5	-	5	5
	Crop improvement														
	Seed production														
	Integrated crop management	-	-	-	-		-	-	-	-	-	-	-	-	-
	Nursery management		-	-	-		-	-	-	-	-	-	-	-	-
	Plant propagation	-	-	-	-		-	-	-	-	-	-	-	-	-
	Any other	-	-	-	-		-	-	-	-	-	-	-	-	-

Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Crop/Cropping system	Area (in ha.)	Demons (Nos)	Location	Period and Duration	Number of beneficiaries/ demon.						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
Front Line Demonstration	Varietal / hybrid evaluation	**Popularization of Mustard Var. NRCHB 101 Under Zero tillage condition**	DRMR, Bharatpur, Rajasthan, 2009	Mustard **Var. NRCHB 101**	2.5	10	Ingourok, Nongpok Sekmai, Ukhongsang, Lourembam, Thoubal Kshetrileikai, Thoubal Ningombam, Thoubal Wangmataba	Nov, 150 days	-	-	-	8	2	10	10
	Crop improvement	-	-	-	-		-	-	-	-	-	-	-	-	-
	Seed production	**Seed production of Rice Var. RC Maniphou-12** ➢ Seed rate : 60 kg /ha (Transplanted) ➢ Seed treatment : Mancozeb @ 3 gm/kg seed ➢ Spacing: (20 X	ICAR Manipur Center, 2018	**Rice Var. RC Maniphou-12**	2.5	10	Ingourok, Nongpok sekmai, Ukhongsang,Lourembam, Thoubal	July 150 days				8	2	10	10

		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 ➢ Rogueing : 2 times (Vegetative and ripening stage)					Kshetri leikai, Kiyam Siphai							
		-													
	Integrated crop management	-	-	-	-		-	-	-	-	-	-	-	-	-
	Nursery management	-	-	-	-		-	-	-	-	-	-	-	-	-
	Plant propagation	-	-	-	-		-	-	-	-	-	-	-	-	-
	Any other	-	-	-	-		-	-	-	-	-	-	-	-	-

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		
Training programs	Farmer and Farm women	Principles of seed production	3	June, Sept	1	Off	0	15	15	0	30	30	45	

				ember, November										
		Cultivation of Kharif pulses	1	June	1	On	0	0	0	0	15	15	15	
		Techinques for cultivation of rabi crops in rice fallows	1	November	1	Off	0	0	0	0	15	15	15	
	Rural Youth	Importance of plant genetic resource	1	July	1	Off	0	0	0	7	8	15	15	
		Scientific cultivation of rabi pulses	1	October	1	Off	0	0	0	8	7	15	15	
	Extension Personnel	Varietal collection and conservation under PPV & FRA	1	October	3	On	0	0	0	8	7	15	15	
	Civil Society													
	NGO(including school drop outs)	-	-	-	-	-	-	-	-	-	-	-	-	
	Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	
Vocational Training Program	Farmer and Farm women	Seed production technique and post harvest management of cereals	1	May	10		On	7	-	7	8	-	8	15	

															Sponsoring Agency
Sponsored training programmes	Farmer and Farm women	Lecture series on Plant Genetic resource and Diversity fair	2	March	2		Off/On	50	50	100	50	50	100	200	NBPGR,New Delhi
	Rural Youth														
	Extension Personnel														
	Civil Society														
	NGO(including school drop outs)														
	Others (Pl. specify)														

Discipline:Plant Protection

Name of the concerned: Subject Matter Specialist:Longjam Boris Singh Mobile No: 7005281606

E-mail address:borislongjam86@gmail.com

Mandated activities	Thematic Area	Details of Technology Assessed/ Refined (in Specific)	Source and Year of release	Assess /Refine	Area (in ha.)	No of trials	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Integrated Pest Management	**Organic management of painted bug, aphid and sawfly in Mustard without any obstacles from bee population** **T1 :*Bacillus thuringiensis* @2gm/ lt. of water (750ml/ha).** **Spraying at 1, 3, 7, 10 days interval.** **T2: Neem oil @ 3ml/lt. of water (750ml/ha)** **Sprayed 3 times at 20 days interval** **T3: Coragen application @ 50ml/ hasingle spray**	**ICAR-NOFRI, Tadong, Sikkim2014.**	A	1.50	**5**	**Wangjing, Thoubal Okram, Ingourok, Kakmayai, Ukhongsang**	Nov 120 days	-	-	-	5	-	5	5
	Integrated Disease Mgmt	**Management of stem rot disease in rice** T1 : Field sanitation(removal of fungal sclerotia)	ICAR NOFRI Sikkim, 2016	A	1.5	5	Lourembam, Ukhongsang,	June 150 days	-	-	-	5	-	5	5

		Application of fixed dose of urea i.e 60 kg/ha, ½ N at land preparation ¼ N 25DAS, ¼ N at Panicle initiation stage T2 : Spraying Contaf 5% EC (Hexaconazole@2ml/lt. (500-750ml/ha) 2nd& 3rd Spray of same dose at 10-15 days interval T3: Spraying Propeconazole@750ml/ha					Hijam Khunou, Thoubal Okram, Kiyam Siphai								
	Beneficial insects	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Other beneficial organisms	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Store grain pest	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	Biological control															

Mandated activities	Thematic Area	Name of Technology demonstrated	Source and Year of release	Crop/ cropping system	Area (in ha.)	Demons Nos	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
Front Line Demonstration	Integrated Pest Management.	**Management of Stem borers and plant hoppers with Voliam Flexi (Chlorantraniliprole 8.8% W/W + Thiamethoxam 17.5% W/W @ 400ml/ha)**	TNAU,2015	Rice	2.5	10	Charangpat, Kiyam Siphai , Sabaltongba, Louremba m, Kakmayai, Ukhongsan	June 150 days				10	-	10	10

							g								
	Integrated Disease Management.	-	-	-	-		-	-	-	-	-	-	-	-	-
	Biological control	-	-	-	-		-	-	-	-	-	-	-	-	-
	Product evaluation	-	-	-	-		-	-	-	-	-	-	-	-	-
	Beneficial insects	-	-	-	-		-	-	-	-	-	-	-	-	-
	Other beneficial organisms	-	-	-	-		-	-	-	-	-	-	-	-	-
	Store grain pest	-	-	-	-		-	-	-	-	-	-	-	-	-
	Others (Pl. specify)	**Popularization of year round Oyster mushroom Technology to be Demonstrated** 1. Substrate preparation (Straw length 2.5 -5 cm dipped in water by adding Carbendazim @7.5g/20lt. of water for 8 hrs) 2. Spawning of straw layer with 25 g of spawn	Directorate of Mushroom Research, Solan, 2013	Mushroom		10	Charangpat, Ingourok, Wangmataba, Loureambam, Kakmayai, Ukhongsang	Jan-Dec 12 months	-	-	-	8	2	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 programme	Farmers & Farm Women	Stem Borer management in Paddy	1	September	1	On	5	-	5	10	-	10	15	
		Insect Pest Management in Rice	1	August	1	off				15	-	15	15	
		Integrated pest management in horticultural crops	1	Dec	1	On	5	-	5	10	-	10	15	
		Integrated management of Thrips and mites in Chilli		June	1	Off	-	-	-	13	2	15	15	
		Management of viral diseases in plants	1	Oct	1	Off	-	-	-	10	5	15	15	
	Rural Youth	Training on paddy straw mushroom cultivation	1	April	1	On	3	-	3	8	4	12	15	
		Integrated management practices of blast in Paddy		Sept.	1	On	-	-	-	15	-	15	15	
		Disease Management in Rice	1	July	1	OFF	10	5	15	-	-	-	15	
		Management of pests of citrus	1	Nov	1	OFF	8	7	15	-	-	-	15	
	Extension Personnel	Integrated disease and pest management in vegetables		March	1	On	2	1	3	10	2	12	15	
		Honey bee cultivation		February	1	On	-	-	-	10	5	15	15	
		Production of biopesticide		May	1	On	3	-	3	12	-	12	15	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO (including school drop outs)	-	-	-	-	-	-	-	-	-	-	-	-	
	Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	

Vocational training programmes	Farmer and Farm women	Year round Mushroom cultivation	1	May	10	On	5	-	5	10	-	10	15	
	Rural Youth													
	Extn. Personnel	-	-	-	-	-	-	-	-	-	-	-	-	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO	-	-	-	-	-	-	-	-	-	-	-	-	
	Others (Pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	
Sponsored training programmes														**Sponsoring Agency**
	Farmer & Farm women	-	-	-	-	-	-	-	-	-	-	-	-	
	Rural Youth	Bee Keeping	1	Nov	7	On	7	-	7	8	-	8	15	STRY
	Extn. Personnel	-	-	-	-	-	-	-	-	-	-	-	-	-
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	-
	NGO(school drop-outs)	-	-	-	-	-	-	-	-	-	-	-	-	-
	Others (Pl. specify)													

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						Grand Total
									SC/ST			General			
									M	F	Total	M	F	Total	
On farm testing	Fish breeding	1. Seed production of walking cat fish (*Clariasmagur*)	College of Fisheries, CAU(I), Lembucherra, 2020	A	-	5	Komnao, Hijam khunou, Ukhongsang, Lourembam	June 120 days	1	-	1	4	-	4	5
		2. Seed production of climbing perch *(Anabas testudineus*)	ICAR-CIFA, 2016	A		5	Tentha Wabagai, Hiyanglam, Tekcha, Kakching	May 120 days	-	-	-	5	-	5	5

Mandated activities	Thematic Area	Technology/Crop/Cropping system	Source and Year of release	Demon (No.)	Area (in H	Location	Period and Duration	Number of beneficiaries						Grand Total
								SC/ST			General			
								M	F	Tota	M	F	Total	

					a)						l				
Front Line Demonstration	Pond Management	Popularization of grow out monoculture of climbing perch	ICAR, CIFA Bhubaneswar(2012)	10	1.0	Ingourok, Wabagai, Hiyanglam, Lourembam, Tekcham, Langmeidong	July-Dec	-	-	-	10	-	10	10
	IFS Modules	Popularization of paddy cum fish farming	ICAR Barapani (2013)	10	1.25	Sabaltongba, Leishangthem, Khekman, Khangabok, Tentha	July-Nov	-	-	-	10	-	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						Grand Total	Remarks
							SC/ST			General				
							M	F	Total	M	F	Total		
On and Off campus training programmes	Farmer and Farm women	Brood stock management for quality seed production (2)	1	April	2	Off	-	-	-	13	2	15	15	
		Breeding and hatchery management of air breathing fishes	4	May	3	On	2	-	2	10	3	13	15	
		Nursery rearing of Indian major carps	1	June	3	Off	1	-	1	14	-	14	15	
		Pre and post stocking management of fish	1	July	3	Off	-	-	-		5	15	15	

		farming								10				
	Rural Youth	Water quality management in fresh water aquaculture (2) Pond based Integrated Farming system (4)	2 1	Aug Sep	1 3	Off On	- -	- -	- -	12 -	3 15	15 -	15 15	
	Extension Personnel	Disease and Health Management in Aquaculture	1	Nov	3	On	-	-	-	10	5	-	15	
	Civil Society													
	NGO (including school drop outs)													
	Others													
Vocational training programmes	Farmer and Farm women													
	Rural Youth	Processing and Value addition of fish (4)	1	Jan	10	On	-	-	-	5	10	15	15	
	Extension Personnel													

	Civil Society													
	NGO(including school drop outs)													
	Others													

Sponsored training programmes	Farmer and Farm women	Integrated aquaculture (3)	1	Oct	3	On	-	-	-	10	5	-	15	
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others													

Discipline: Home Science

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Mandated activities	Thematic Area	Name of Technology	Source and Year of release	Assess /Refine	No of trials	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/ trials						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Nutritional Gardening	**Introduction to year round nutri rich crops in NARI village** Inclusion of nutrient rich crops(Quinoa, Chia) with biofortified crops (Lentil IPL 220 – Zinc ,Sweet potato NFSP-1-Anthocyanin , HQPM-5 Hybrid Maize-Protein, and Casava CAU Umangra-1 –Carotene) to the existing crops	ATARI Jabalpur ,2017	A	5	-	Lourembam, Ingourok	Jan-Dec	-	-	-	-	5	5	5
	Nutritional diet for children/ Pregnant women	-	-	-		-	-	-	-	-	-	-	-	-	-
	Energy saving tools/ devices	-	-	-		-	-	-	-	-	-	-	-	-	-
	Water harvesting devices including purification	-	-	-		-	-	-	-	-	-	-	-	-	-
	Hygienic Sanitation	-	-	-		-	-	-	-	-	-	-	-	-	-
	Organic dye introduction/ utilization	-	-	-		-	-	-	-	-	-	-	-	-	-
	Utilization of waste materials	-	-	-		-	-	-	-	-	-	-	-	-	-

	(Bio-degraded)														
	Storage techniques (grains/ fruits/ fishes/ meat etc)														
	Uses of women friendly tools (WFT)	-	-	-		-	-	-	-	-	-	-	-	-	-
	Techniques of child care/ old age	-	-	-		-	-	-	-	-	-	-	-	-	-
	Others (Pl. specify)	-	-	-		-	-	-	-	-	-	-	-	-	-
	Value Addition	**Assessment on composition of guava cheese** **Ingredients / T1 / T2 / T3** **Pulp :Sugar (kg) / 1:1 / 1:1.25 / 1:1.5** **Citric acid (gm) / 2 / 3 / 5** **Butter (gm) / 40 / 60 / 80**	Horticulture Division ICAR, Barapani 2014	A	5		Ingourok, Lourembam, Ukhongsang, Heingangl ok	Oct-Dec	-	1	1	-	4	4	5

Mandated activities	Thematic Area	Name of Technology	Source and Year of release	Crop/Cropping system	Demons (Nos)	Area (in ha.)	Location	Period and Duration	Number of beneficiaries/ demon.						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
Front Line Demonstration	Nutritional Gardening	-	-	-		-	-	-	-	-	-	-	-	-	-
	Nutritional diet for children/ Pregnant women														

	Energy saving tools/ devices	-	-	-		-	-	-	-	-	-	-	-	-	-
	Water harvesting devices including purification	-	-	-		-	-	-	-	-	-	-	-	-	-
	Hygienic Sanitation	-	-	-		-	-	-	-	-	-	-	-	-	-
	Organic dye introduction/ utilization	-	-	-		-	-	-	-	-	-	-	-	-	-
	Utilization of waste materials (Bio-degraded/ Bio-non degraded)	-	-	-		-	-	-	-	-	-	-	-	-	-
	Storage techniques (grains/ fruits/ fishes/ meat etc)	-	-	-		-	-	-	-	-	-	-	-	-	-
	Uses of women friendly tools (WFT)	-	-	-		-	-	-	-	-	-	-	-	-	-
	Techniques of child care/ old age	-	-	-		-	-	-	-	-	-	-	-	-	-
	Value addition	**Popularisation of water melon rind candy Technology to be Demonstrated** ➢ Cut rind of water melon ➢ Peeled with stainless steel knife ➢ Cut into cuboids (4.5 cm x 1cm) with 1-15 cm thickness	Navsari Agricultural University ,Navsari,Gujarat,2017	A	10		Kakching, Thoubalwangmataba, Wangbal, Khangabok, Wangjing	July-Aug	-	2	2	-	8	8	10

		➢ Blanched in boiling water for 5 mins. ➢ Addition of 100gm sugar directly with 100 gm blanched rind. ➢ Raised the sugar syrup to 10 brix & keep overnight ➢ Repeat process till 70 brix ➢ Rinse with boiling water ➢ Dry/dehydrate candy (sundry for 2 days)													
		Title-Popularisation of value added products of Pineapple Preparation of Pineapple candy ➢ **Washing and grading , Peeling of fruit and preparation of fruit**	Navsari Agricultural University ,Gujarat , 2017	A	10		Thoubal, Langathel ,Lourembam, Ingourok	July-Sep	1	1	2	1	7	8	10

		pieces ➢ **Potassium meta bisulphite pre treatment @ 1.5gm/kg for 8h before osmosis.** ➢ **Dipping in sugar syrup(60) degree brix sugar syrup concentration for 24 hours** ➢ **Draining and Drying (sun dry for 2 days)**												

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	Processing and value addition of minor fruits Preparation of value added products from pineapple	2 2	April ,June , August	3 2	Off// On Off Off	-	15 15	15	-	15 15	15 15	30 30	

		Preparation of watermelon rind candy Nutrition Gardening for household nutritional security Preparation of value added product from guava	1 2 2	July May, September, October/November	1 2 2	Off Off On		15 15	15 15		- 30 15	- - 15	15 30 30	
	Rural Youth	Preparation of Nutritious snacks as a source of income generation	2	December/ January	2	Off					30	30	30	
	Extn. Personnel	Importance of Biofortified crop varities for nutritional security	1	February	1	On					15	15	15	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO	-	-	-	-	-	-	-	-	-	-	-	-	
Vocational training programmes	Farmer and Farm women	Value Added product of seasonal fruits and vegetables	-	Oct		7	On	-	2	2	-	13	13	15	
	Rural Youth														
	Extn. Personnel	-	-	-		-	-	-	-	-	-	-	-	-	
	Civil Society	-	-	-		-	-	-	-	-	-	-	-	-	
	NGO	-	-	-		-	-	-	-	-	-	-	-	-	
	Others	-	-	-		-	-	-	-	-	-	-	-	-	
Sponsored training programmes															
	Farmer and Farm women	Mechanised system for production of Hawaijar	1	March		1	on		15			15	30	30	
	Rural Youth														

	Extn. Personnel	-	-	-		-	-	-	-	-	-	-	-	-	-
	Civil Society	-	-	-		-	-	-	-	-	-	-	-	-	-
	NGO	-	-	-		-	-	-	-	-	-	-	-	-	-

Discipline: Agriculture Extension

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Mandated activities	Thematic Area	Technology/ Method/ Process/ Model	Source and Year of release	Assess/ Refine	Area (in ha.)	Location	Period and Duration	Number of respondents/ beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
On farm testing	Formation of Groups													
	Benchmark Survey (PRA etc)													
	Impact Assessment													
	Technology Backstopping													
	Dissemination time/ Loss of technologies													
	Coordination/ Convergence/													
	Others													

Mandated activities	Thematic Area	Technology/ Method/ Process/ Model	Source and Year of release	Crop/ Cropping system/ Enterprise	Area (in ha.)	Location	Period and Duration	Number of beneficiaries						
								SC/ST			General			Grand Total
								M	F	Total	M	F	Total	
Front Line Demonstration	Formation of Groups													
	Benchmark Survey (PRA etc)													
	Impact Assessment	**Impact of NARI (Nutri-Sensitive Agricultural Resources & Innovations) in**	-	-	-	Thoubal district	April, 120 days	-	20	20	-	110	110	130

		enhancement of Farmers' livelihood and Nutritional security 1. Sample of 130 farmers will be selected 2. Data will be collected using structural interview schedule. 3. Data will be analysed through mean, frequency and percentage.												
		Impact on Participatory rice seed Production of RC Maniphou 13 under DFI Villages in Thoubal district 1. Sample of 120 farmers will be selected 2. Data will be collected using structural interview schedule. 3. Data will be analysed through mean, frequency and percentage.	-	-	-		April, 120 days	30	-	30	80	10	90	120
	Technology Backstopping													
	Dissemination time/ Loss of technologies													
	Coordination/													

	Convergence													
	Extend of Utilization of SHG													

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	• Importance of Value addition as rural enterprise (2) • Formation and mobilization of FC/SHG/FPO (3) • Marketing Potentials of Rice Seed Production (2)	7	August September-October November December	3 days/Training	On: 2 Off: 5	20	10	30	80	30	110	140	
	Rural Youth	• Entrepreneurial skill development (2) • Intervention of Information and Communication Technology (ICT) in Agricultural Marketing (2)	3	August-September-October - November-	3 days/training	On:1 Off:2	10	5	15	45	20	65	80	
	Extension Personnel	• Participatory Rural Appraisal (PRA) (2)	2	October	3 days/training	On:1 Off:1	5	5	10	15	5	20	30	

	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO	-	-	-	-	-	-	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
Vocational training programmes	Farmer and Farm women													
	Rural Youth	Communication Skills and Team Building (1)	1	Novemb er	15 days	On	5	2	7	10	3	13	20	
	Extension Personnel	-	-	-	-	-	-	-	-	-	-	-	-	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO	-	-	-	-	-	-	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	
Sponsored training programmes														**Sponsoring agency**
	Farmer and Farm women	Market led extension for locally available high value crops	1	Aug	3	On	8	2	10	15	5	20	30	MSFAC
	Rural Youth	-	-	-	-	-	-	-	-	-	-	-	-	-
	Extn. Personnel	-	-	-	-	-	-	-	-	-	-	-	-	-
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	-
	NGO	-	-	-	-	-	-	-	-	-	-	-	-	-
	Others	-	-	-	-	-	-	-	-	-	-	-	-	-

EXTENSION ACTIVITIES PROPOSED FOR THE YEAR 2022

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	55	Throughout the year		120	55	175	165	85	250	285	140
Advisory services/ telephone talk	600	Throughout the year		230	170	400	700	200	900	930	370
Training Manual	3	-	-	-							
Celebration of Important days	5	-	-	-	-	-	-	-	-	-	
Exhibition	3										
Exposure visit	10			75	45	120	105	75	180	180	120
Extension literature (Leaflet/ folders/ Pamphlets)	70	-	-	-	-	-	-	-	-	-	
Extension / technical bulletin	2	-	-	-	-	-	-	-	-	-	
News letter	1	-	-	-	-	-	-	-	-	-	
News paper coverage	12	-	-	-	-	-	-	-	-	-	
Research publications	6	-	-	-	-	-	-	-	-	-	
Success stories/ Case studies	6	-	-	-	-	-	-	-	-	-	
Farm Science Clubs' Convenors meet	31	-	-	87	13	100	600	13	613	687	26
Farmers' Seminar	2	-	-								
Farmers' visit to KVKs	1400	Throughout the year		250	150	400	700	300	1000	950	450
Ex-trainees' meet	3	-	-	10	-	10	45	10	55	55	20
Field day	3	-	-	30	10	40	80	20	100	110	30
Film show	10	-	-	80	20	100	700	100	800	780	120
Radio Talk	12	-	-								
TV talk	8	-	-								
KisanGosthi	2	-	-	15	5	20	35	15	50	50	20
Group Meeting	6	-	-	25	5	30	130	40	170	155	45
Kisan Mela	1	-	-								

Soil Health Camps	10			65	5	70	110	10	120	175	15
Animal Health Camps	2			15	5	20	85	15	100	100	20
Awareness camp Mobile Agro-Advisory (Messages/ Beneficiaries)	600	Throughout the year	-	-	-	-	-	-	-	-	
Method demonstration	16			25	5	30	90	40	130	115	45
Scientists' visit to farmers' field	350	Throughout the year		110	40	150	350	100	450	460	140
Workshop/ Seminar	1										
Soil Testing	200			180	20	200	700	100	800	880	120
Water Testing	200			35	15	50	100	50	150	135	65
Plant Testing	-	-	-	-	-	-	-	-	-	-	-
Manure Testing	-	-	-	-	-	-	-	-	-	-	-
Any other (Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-

ACTIVITY CALENDAR OF THE KVK (MONTH-WISE TARGET TO BE COMPLETED) FOR THE YEAR 2022

KVK:KVK Thoubal

Activity/ Month	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
OFT (No.s.)													
i. Number of Technologies	1		2		1	4		1		1	2		**12**
i. Number of Trials	5		10		5	20		5		5	10		**60**
ii. Area (ha)/ items (no.)			1.75			2.125		1.25			3		**8.125**
FLD (Nos.)													
i. Number	10		16			18	50			1		18	**113**
ii. Area(ha)/ items (no.)			1			4.25	4.75					4.5	**14.50**
Training programme													
Farmer													
i. No. of course	1	1	2	1	1	3	2	2	3	2	4	1	**23**
ii. No. of participants	15	15	215	15	15	45	30	30	45	30	60	15	**530**
Rural Youth													
i. No. of course	2		1	1	1	2	3	1	5	5	5	1	**27**
ii. No. Of participants	30		15	15	15	30	45	15	75	75	75	15	**405**
Ext. Personnel													
i. No. of course		2	1		2	1			1	3	1	1	**12**
ii. No. Of participants		30	15		30	15			15	45	15	15	**180**
Extension Activities/ programmes													
i. No. of activities	7	6	20	15	10	14	18	20	15	20	10	10	**165**
ii. No. of beneficiaries	95	90	300	125	150	200	150	230	250	300	120	120	**2130**
Seeds production (tonnes)							15				11.85	105.3	**132.15**
Planting materials (Nos. in Lakh)		12500	5000	1500	500			1000	42000	40000	5500		**108000**
Livestock strains (No. in lakh)			30	10	10		30	400	300	50	50		**880**

Fingerlings (No. in lakh)									5000	5000			**10000**
Bio-agents/ products (tonnes)													
Bio-fertilizers/ Vermicompost etc. (in Tonnes)	1.5	1	1.30	0.200	0.250	0.250	0.150	0.150	0.150	0.200	0.150	0.700	**0.60**
Soil , Water, Plant, Manures Testing (No. of samples to be tested)	40	48	50	50	45	25	19	20	20	35	50	48	450
Soil , Water, Plant, Manures Testing (No. of farmers benefitted)	130	128	170	170	165	25	19	20	20	55	170	128	1200
Soil , Water, Plant, Manures Testing (No. of villages covered)	7	8	8	8	10	8	7	7	8	10	8	10	99
Mobile Agro-Advisory (No. of Messages)	100	100	100	100	100	100	100	100	100	100	100	100	**1200**
Mobile Agro-Advisory (No. of Farmers)	100	100	100	100	100	100	100	100	100	100	100	100	**1200**