INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Agricultural Technology Application Research Institute, Zone-VII
Umiam, Meghalaya
Format for Annual Action Plan Formulation of KVKs 2024

Name of the KVK/District: Thoubal

Present Staff Position in KVK:

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.	R.K. Lembisana Devi	F	Gen	SMS	Home Science
4.	Sribidya Waikhom	F	OBC	SMS	Fisheries
5.	Dr. Chuwang Hijam	M	OBC	SMS	PlantBreeding and Genetics
6.	Longjam Boris Singh	M	OBC	SMS	Plant Protection
7.	Dr. W. Jiten Singh	M	OBC	Farm Manager	Agronomy
8.	L. Babita Devi	F	Gen	Program Assistant	Computer
9.	O.Shilhenba Singh	M	Gen	Assistant	Commerce
10.	S.Prabin Singh	M	OBC	Programme Assistant	Agriculture Extension
11.	M. Geeta Devi	F	Gen	Steno cum Computer Operator	

12.	M. Hemanta Singh	M	Gen	Driver cum Mechanic	
13.	Th.Tiken Singh	M	OBC	Driver cum Mechanic	
14.	S. Dhabali Singh	M	Gen	Peon cum Chowkidar	
15.	Mangminthang Zou	M	ST	Peon cum chowkidar	
Total : 15					

Please furnish discipline-wise information in the given format pertaining to the mandated activities of your KVK targeted to be accomplished during 2024

Discipline: Horticulture

Name of the concerned Subject Matter Specialist:.Dr. Khwairakpam 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 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 variety- Kashi Ageti** ➢ Seed rate - 80kg/ha ➢ Spacing- 30 x 10 cm ➢ Planting time – September-October ➢ Seed treatment - *Trichodermaviride* @ 4g/kg of seed. ➢ Nutrient requirement: NPK: 20: 60: 40kg/ha. As basal dose.	IIVR-ICAR Varanasi, 2015	A	0.312	5	Uyal, Khangabok, Heirok, Wangjing and Tejpur	Oct, 2024 to Jan, 2025	-	-	-	4	1	5	5

	Varietal Evaluation	**Performance of watermelon variety Arka Shyama** ➢ Seed rate: 3 kg/ha ➢ Spacing: 120 x 60 cm ➢ Sowing time : February to March ➢ Transplanting : 30 DAS ➢ Seed treatment: *Trichoderma viride*@ 4g/kg of seed. ➢ Nutrient requirement: NPK: 100:50:50kg/ha, all NPK as basal dose.	IIHR-ICAR, Bangaluru, 2020	A	0.28	5	Khangabok, Heirok, Wangjing, Kakching, Salungpham	April, to July, 2024	1	-	1	3	1	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	Vegetable production	**Popularization of Cucumber DC-83** **Seed rate : 2kg/ha** ➢ Spacing: 60 x 30 cm ➢ Sowing time : 2nd fortnight of April ➢ Planting time : 30 DAS ➢ 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.	IARI, Pusa,New Deli, 2016		0.5	Langmeithet, Wangjing, Lamding, Khangabok&Kakching	April to August, 2024	1	-	1	6	1	7	8
	Vegetable production	**Popularization of French bean variety Arka Sharath** ➢ Seed rate: 60kg/ha ➢ Spacing: 45 x 15 cm ➢ Sowing time : September ➢ Seed treatment: *Trichoderma viride* 4g/kg of seed. ➢ Nutrient requirement: NPK: 30: 40: 30kg/ha as	IIHR, ICAR, Bangaluru, 2019		0.5	Papal, Heirok, Wangjing Khangbok Salungpham	Aug to Dec, 2024	-	-	-	7	1	8	8

		basal dose. ➢ Local Check Variety – Champhut hawai												

Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training prog	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	Package of practices for ginger & turmeric (2)	1	April, 2024	3	On	1	4	5	5	5	15	15	
		Production technology of bulb crops (2)	1	October, 2024	3	Off	-	-	-	12	3	15	15	
		Nursery management of Rabi vegetable crops (3)	1	Nov, 2024	3	On	3	-	3	8	4	12	15	
		Package of practices for cucurbitaceous crops. (2)	1	Dec, 2024	3	On	-	-	-	11	4	15	15	
	Rural Youth	Offseason vegetable production (2)	1	June	3	On	3	2	5	8	2	10	15	
		Nursery management of ornamental crops (2)	1	Sept, 2024	3	On	-	-	-	12	3	15	15	
		Rejuvenation of Orchard(1)	1	January	3	Off	-	-	-	10	5	15	15	
			1	February	3	On	2	-	2	10	3	13	15	

		Exotic vegetable production (3)												
	Extension Personnel	Micro irrigation and mulching in vegetable crops (3)	1	May	3	On		-	-	8	7	15	15	
	Civil Society													
	NGO (including school drop outs)													
	Others													
Sponsored training programmes	Farmer and Farm women	Protected Cultivation of vegetable production (2)	1	July	3	On	3	-	3	10	2	12	15	Dept. of Hort. Soil Conservation, Thoubal, Manipur
	Rural Youth													
	Extension Personnel	Production technology and its management for spices crop (3)	1	August	3	On	2	-	2	10	3	13	15	MOMA, Dept. of Hort. Soil Conservation, Manipur
	Civil Society													
	NGO(including school drop outs)													
	Others													

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 trial	Location	Period and Duration	Number of beneficiaries						
									SC/ST			General			Grand Total
									M	F	Total	M	F	Total	
On farm testing	Crop Diversification	**Assessment of bio-fortified Pearl millet var. ABV-04** ➢ Seed rate : 5Kg/ha (Drilling method) ➢ Seed treatment: *Trichoderma harzianum* @ 4gm/kg seed ➢ Field Preparation: 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 K and ½ dose of N at the time of sowing in furrow and rest of N through top dressing at 20-25 DAS and panicle formation stage	ANGRAU, Anantha puram, 2018	Assesment	1.5	5	Umathel, Henganglok, Salungpham, Khangabok & Pallel	June, 2024 to September, 2024 95 days	1		1	3	1	4	5

		➢ Spacing : (40x 10) cm ➢ Sowing time: Mid-June to 3rd week of July													
	Crop Diversification	**Performance of rice varieties (2nd Year)** ➢ Seed rate: 60 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 ➢ Transplanting: 2 seedlings per hill ➢ Transplanting age: 21-25 DAS	ICAR-RC NEH, Manipur Center, 2021	Assesement	5.0	5	Lourembam, Kakching, Nongpok Sekmai, Wangjing & Khangabok	July,2024 to Nov,2024 128 days	1		1	3	1	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**	
Frontline Demonstr	Crop Diversification	**Popularization of Bio-fortified Lentil Var. IPL 220 (2nd**	IIPR Kanpur, 2018	10	2.5	Nongpok Sekmai, Heinganglok,	December,2024 to April,	1	1	2	7	1	8	10

		year) ➢ Seed rate - 40kg/ha, ➢ Sowing time: November-December ➢ Seed treatment - *Trichoderma viride* 4g/kg seed; ➢ Fertilizer: NPK@20:40:20kg/ha as basal dose.				Lamding, Icham Khunou and Khangabok	2025							
	Crop Production	**Popularization of Sweet corn Var. Madhuri (1st year)** ➢ Seed treatment - Captan + Carbendazim (1:1) 2.0 g/kg of seed ➢ Sowing period: May-June (in mid-hills) ➢ Seed rate- 12 kg/ha ➢ Spacing (Line sowing), Row to row distance: 60 cm, plant to plant: 25 cm ➢ Fertilizer doses & time of fertilizer application -90:60:40 kg N:P:K/ha; Basal: 1/3 N, P & K; 1/3 N: at knee height, 1/3 N: at tasseling ➢ Weed control- Pre emergence (2 DAS): Atrazine @ 1.0 kg	ANGRAU, Hyderabad,1990	10	1.25	Wangmataba, Heirok, Lourembam, Ukhongsang , Ingourok	June,2024 to Sept, 2024 120 days	1		1	7	2	9	10

		a.i./ha / Alachlor @ 2.0 kg a.i./ ha + One HW weeding at 30–35 DAS followed by earthing up at knee high 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 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	1. Maintaining quality seed for composite varieties of maize	1	April, 2024	1	ON				10	5	15	15	
		2.Cultivation practices & seed production of Sorghum & Ragi	1	June,2024		OFF				10	5	15	15	
		3. Importance of seed production and participation in participatory mode	1	Aug,2024		OFF	5	5	10	3	2	5	15	
		4. Awareness program on selection of crop varieties based on agro climatic region	1	Feb 2024		ON				7	8	15	15	
	Rural Youth	1. Training cum demonstration of 6 row rice trans planter	1	May,2024		ON	3	2	5	10		10	15	
		2. Seed production of *kharif* rice	1	July,2024		OFF				13	2	15	15	
		3. Hands on		Sep		OFF				12	3	15	15	

		identification of different quality parameter of seeds crops. 4. Seed production of rapeseed and Mustard	1 1	2024 Oct,2024		ON	2	1	3	12		12	15	
	Extension Personnel	1. Production of True Potato Seeds in higher altitude areas	1	Dec,2024		ON	2	2	4	9	2	11	15	
	Civil Society	Awareness program for using paddy straw in eco friendly way	1	Nov,2024		OFF				10	5	15	15	
	NGO (including school drop outs)	Awareness program on seed legislation of India	1	Jan,2025		ON	5		5	10		10	15	
	Others													
Sponsored training programmes	Farmer and Farm women													
	Rural Youth													
	Extension Personnel	Scope for using tissue culture propagules in vegetative reproduction	1	March 2025		ON	3	2		8	2	10	15	
	Civil Society													
	NGO(including school drop outs)													
	Others													

Discipline: **Plant Protection**

Name of the concerned Subject Matter Specialist: Longjam Boris Singh **Mobile No. 8974852548**

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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 pests management	**Management of fall army worm (*Spodoptera frugiperda*) in maize Var. Madhuri** **T_1(Technology)** • Application of *Metarhizium anisopliae* talc formulation ($1x10^8$ cfu/g) @ 5g/litre whorl application at 25 days after sowing • 2^{nd} and 3^{rd} spray applied at 10days interval **T_0(Farmers practice)** • Application of neem oil 0.3 % @ 5 ml/lt. one week after sowing as oviposition	ICAR Research Complex for NEH Region, Umiam Meghalaya, 2019	Assesement	1.5 ha	5	Wangmataba, Heirok, Louremba m, Ukhongsang and Ingourok	July 2024-November, 2024	1		1	3	1	4	5

		deterrent													
	Integrated Disease Management (Common OFT for all the valley districts of Manipur)	**Management of purple blotch in onion (2nd year) var. Bhima Shakti** **T_1(Technology)** • Spraying of Mancozeb 75 WP@ 0.25% + Propiconazole 25 WP @ 0.1% thrice at 10 days intervals from 30 DAT **T_2(resistant variety)** • **Arka Kalyan** **T_0(Farmers practice)** • Spraying of Tebuconazole 19.5 EC @0.1%, (3 times spraying is done after infestation at weekly interval)	ICAR-Directorate of onion and Garlic Research,Pune 2019	Assesement	0.3	5	Wangjing, Khangabok, Wangbal, Ukhongsang	December 2024 - April, 2025	-	-	-	3	1	4	4

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

Front line demonstration	Integrated Disease Management	**Integrated management of blast in rice (2nd Year) var. CAU R1** **Technology** • Seed treatment with *Pseudomonas flourescens* at the rate of 10 g per kg of seeds. • 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) **Local Check** • Tricyclazole 75% WP @ 0.1% (thrice at weekly interval after infestation) **Resistant variety** • **RC Maniphou 16**	ICAR Research Complex for NEH-Sikkim Center, 2016	10	2.5	Khangabok , Kakching, Wangjing, Khongjom	July 2024 – December 2024				4	1	5	5
	Integrated Pests Management	**Popularization of Organic management of painted bug, aphid and sawfly in mustard var. NRCHB 101** • *Bacillus thuringiensis* @2ml/ L (750 ml/ha) Spraying at 1, 3, 7, 10 days interval after infestation. **Local check**	ICAR Research Complex for NEH-Sikkim Center, 2014	10	2.0	Nongpok Sekmai, Ukhongsang, Kiyam Siphai, Wangbal	December 2024-March 2025				4	15		5

		• Application of Neem oil 0.3 % @2ml / Lafter infestation at 1 ,3, 7 and 10 days interval												

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 pests and disease in Tree Bean	1	May	3	Off	12	3	15	15	0	15	30	
		Bio intensive management of pests and disease in rice	1	June	3	Off	10	2	12	10	8	18	30	
		Integrated Management of viral diseases in chilli	1	July	3	Off	9	6	15	8	7	15	30	
		Management of Thrips in rice	1	August	3	Off	12	3	15	15	0	15	30	
		Management of purple blotch in onion	1	Decem ber	3	Off	10	5	5	7	8	15	30	
	Rural Youth	Management of seedling diseases and pests in rice	1	July	3	Off	11	4	15	14	1	15	30	
		Protected cultivation of potatoes	1	Novem ber	3	Off	12	3	15	11	4	15	30	
		Integrated Management of Sheath blight and stem rot in rice	1	Octobe r	3	Off	9	6	15	10	5	15	30	
	Extension Personnel	Organic crop protection strategies	1	Februa ry	3	On	10	5	15	10	5	15	30	

	Civil Society	Biocontrol of pests and diseases in horticultural crops	1	Januar y	3	Off	10	5	15	10	5	15	30	
	NGO (including school drop outs)	Integrated management of blast disease in rice	1	Septem ber	3	On	8	7	15	9	6	15	30	
Sponsored training programmes	Farmer and Farm women													
	Rural Youth	Training program on cultivation of paddy straw mushroom	1	March	3	On	2	8	10	12	8	20	30	
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	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	**Periphyton based fish farming** ➢ Stocking density – 8000 fingerlings/ha. ➢ Fish species – (IMC)-Catla, Rohu, Mrigal (30:40:30) ➢ Culture period – 10 months **T1:** ➢ 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.	ICAR-CIFA, Bubhaneswar, 2016	A	1.25	5	Langmeidong, Wabagai, Khangabok, Chandrakhong, Lilong	May, 2024 to Feb, 2025	-	-	-	5	-	5	5

		T2: ➢ Feeding- RB : MOC (1:1) @ 2% bw once a day ➢ No substrate															
	Pond Management	**Performance assessment of monoculture of air breathing fish (*Anabas testudineus*)** ➢ Stocking density- 8500 fry per 0.1 ha ➢ Species - Anabas ➢ Culture period - 4 months T1: ➢ **Feeding-** RB : MOC (1:1) @ 3% bw twice a day ➢ **Pond Management:** Monthly liming of pond @ 5-10 kg/0.1 ha (depending on water pH) T2: ➢ **Feeding-** RB : MOC (1:1) @ 3% bw twice a day. ➢ No Pond management.	ICAR-CIFA, Bubhaneswar, 2016	A	0.5	5	Nongangkhong, Khangabok, Uyal, Wabagai, Tentha	June-october	-	-	-	5	-	5	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	Fish breeding	**Seed production of walking cat fish (*Clarias magur*) 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 ➢ 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.	College of Fisheries, CAU(I), Lembucherra, 2020	10	-	Salungpham, Kiyam Siphai, Khangabok Hiyanglam, Tentha, Charangpat, Chairel	June-August	-	-	-	10	-	10	10
	Fish breeding	**Seed production of climbing perch (*Anabas testudineus*)** ➢ Selection of brooder. ➢ Injecting with	ICAR-CIFA, Bhubaneswar, 2016	10	-	Wabagai, Hiyanglam, Oinam Sawombung, Tentha,	May-September	-	-	-	9	1	10	10

		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.				Khekman, Heirok Khangabok							

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 pond preparation & Management (3)	1	April, 2024	2	Off	-	-	-	13	2	15	15	
		Breeding & Seed Production of Climbing perch (2)	1	May, 2024	3	On	2	-	2	10	3	13	15	
			1	June,	2	Off	1	-	1	14	-	14	15	

		Pre and post stocking management of fish farming (3)		2024										
	Rural Youth	Breeding & Seed production of Magur (2) Water quality management in fresh water aquaculture (2)	1 1	July, 2024 Novem ber, 2024	3 2	Off On	- -	- -	- -	12 13	3 2	15 15	15 15	
	Extension Personnel	Integrated Aquaculture & Recent advances in Aquaculture	1	Feb, 2025	3	On	-	-	-	10	5	15	15	
	Civil Society													
	NGO (including school drop outs)													
Sponsored training programmes	Farmer and Farm women													
	Rural Youth	Fish processing and Preparation of value added fish products	1	August , 2024		On	-	5	5	4	11	15	20	
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	Others													

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						Grand Total
									SC/ST			General			
									M	F	Total	M	F	Total	
On farm testing	Value Addition	**Assessment on preparation of Multi Millet Cookies** ➢ Beat 50g butter & Sugar powder (30gm) till fluffy ➢ Add millet flour 100g (Ragi: Sorghum: Bajara @ 30:40:30) till soft dough ➢ Spread out dough on butter paper & roll it. ➢ Cut into shapes ➢ Bake it for 15 min at 180 degree in pre heated oven	ICAR, IIMR, Hyderabad, 2018	A	-	5	Khangabok, Kuraopokpi, Ukhongsang, Charangpat	June - Nov	-	1	1	-	4	4	5
	Value Addition	**Assessment on preparation of pomelo jam**	University of Agricultural ,	A	-	5	Khangabok, Wanging,	Nov - Jan	-	-	-	5	-	5	5

		Rub the pomelo with salt uniformly & wash properly to remove the bitter taste **T_1** (50% pomelo 50% Papaya) ▪ **Peel the pomelo and papaya separately** ▪ **Chop into small pieces& put in a saucepan with the sugar (500g), mash and then bring it to boil and add citric acid @3g per kg pulp.** ▪ **Continue boiling, stirring constantly & make a gelling test, after 5 minutes pour into glass jar** **T_2** (50% pomelo 50% orange) ▪ Peel the pomelo and Orange	Sciences, Bangaluru, 2015				Kakching, Charangpat, Sapam								

		separately ▪ Chop into small pieces& put in a saucepan with the sugar (500g), mash and then bring it to boil and add citric acid @3g per kg pulp. ▪ Continue boiling, stirring constantly & make a gelling test, after 5 minutes pour into glass jar **T_3** (100% Pomelo) ▪ Peel the pomelo and remove the fruit ▪ Add the pomelo & sugar (500g) in saucepan and then bring it to boil. Stir frequently and add citric acid @3g per kg pulp. ▪ Continue boiling, stirring constantly & make a gelling test, after 5													

		minutes pour into glass jar													

Mandated activities		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	**Popularization of protein based laddu from Maize** ▪ Finely grind maize (250gm) ▪ Add Sesame (250 gm), Moong dal (100gm) ,Groundnut (150 gm) and a pinch of cardamom powder & salt with dry fruits (100 gm) ▪ Dry roast the grinded flours & add ghee 150 gm ▪ Make Jaggery syrup (600 gm Jaggery with 100 ml water) ▪ Pour the jaggery syrup to the roasted flour & make into desired shapes.	ICAR, IIMR, Ludhiana, 2016	10	1.25	Khangabok Thoubal, Kakching,	July-Nov	-	-	-	10	-	10	10
	Value Addition	**Popularization of Pineapple jam** ▪ Peel the pineapple and remove the fruit	Kerala Agricultural University ,2017	10	1.0	Khangabok Yairipok Keirak,Thoubal, Kakching	July-Nov	-	-	-	10	-	10	10

		▪ Add the pineapple pulp & sugar (1:1) in saucepan and then bring it to boil. ▪ Stir frequently and add lemon juice 50 ml per kg pulp. ▪ Continue boiling for 15-20 mins, stirring constantly. ▪ When the product has become thicker and reached the setting point, pour into sterilized glass jar .											

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	1	April,2024	3	Off	-	15	15	-	15	15	30	
		Preparation of value added products from millet	1	May, 2024	2	On	-	15	15	-	15	15	30	
		Preparation of pineapple value added products	1	July, 2024	1	Off	-	15	15	-	-	-	15	
		Processing and value addition of Maize	1	August,	2	Off	-	15	-	-	15	-	30	

		Preparation of value added product from guava	1	2024 October, 2024	2	On	-	-	-	-	15	15	30	
	Rural Youth	Preparation of Pomelo Jam as a source of income generation	2	Nov, 2024 Jan, 2025	2	Off	-	-	-	-	30	30	30	
	Extension Personnel	Importance of Millet processing and value addition for nutritional security	1	Feb	1	On	-	-	-	-	15	15	15	
	Civil Society													
	NGO (including school drop outs)													
Vocational training programmes	Farmer and Farm women													
	Rural Youth	Value Added product of seasonal fruits and vegetables	-	Nov		7	On	-	2	2	-	13	13	15
	Extn. Personnel													
	Civil Society													
	NGO													
Sponsored training programmes	Farmer and Farm women													
	Rural Youth													
	Extension Personnel													
	Civil Society													

Discipline: Agricultural Extension

Name of the concerned Programme Assistant :. Salam Prabin Singh **Mobile No: 7005367546**

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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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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						Grand Total
								SC/ST			General			
								M	F	Total	M	F	Total	
Front Line Demonstration	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	1. Formation and management of SHGs	1	April 2024	3	On	4	3	7	5	3	8	15	
		2. Strengthening of Farmers	1	May 2024	3	off	-	-	-	8	7	15	15	

		Producer Organization 3. Gender mainstreaming through SHGs	1	June 2024	3	off	-	-	-	-	15	15	15	
	Rural Youth	1. Entrepreneurial development of youths (livestock /horticulture based integrated farming system) 2. Leadership development among women/rural youths	1 1	July 2024 August 2024	3 3	On off	4 8	3 7	7 15	5 -	3 -	8 -	15 15	
	Extension Personnel	1. Marketing module for sale of Agricultural produce	1	September 2024		On	4	3	7	5	3	8	15	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO (including school drop outs)	-	-	-	-	-	-	-	-	-	-	-	-	

Sponsored training programmes	Farmer and Farm women	1. Mobilization of social capital through FPO	1	November 2024		On	5	3	8	4	3	7	15	
	Rural Youth	-	-	-	-	-	-	-	-	-	-	-	-	
	Extension Personnel	-	-	-	-	-	-	-	-	-	-	-	-	
	Civil Society	-	-	-	-	-	-	-	-	-	-	-	-	
	NGO(including school drop outs)	-	-	-	-	-	-	-	-	-	-	-	-	
	Others	-	-	-	-	-	-	-	-	-	-	-	-	

Discipline: Agronomy

Name of the concerned Subject Matter Specialist: **MobileNo:**

E-mail address:

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	Cropping system	**Cropping system of rice followed by lentil** **Rice – RC Maniphou-15** ➢ Variety: RC Maniphou 15 ➢ Seed treatment with Carbendazim @3g/kg seed ➢ Seed rate- 60 kg/ha ➢ Sowing time- June last week ➢ Transplanting- 1st fortnight of July ➢ Spacing- 15×15 cm ➢ Fertilizer dose- 80:40:30 kg NPK/ha **Lentil- IPL- 316**	ICAR-RC, NEH, Manipur Center, 2017	Assessment	**1.25 ha**	5	Nongpok Sekmai, Ingourok, Cherapur, Heirok & Wangjing	June, 2024 to March, 2025	-	-	-	5	-	5	5

		➢ Variety: IPL-316 ➢ Seed treatment with Carbendazim @3g/kg seed ➢ Seed rate- 40 kg/ha ➢ Spacing- 30×10 cm ➢ Sowing time- 1st fortnight of November ➢ Fertilizer dose- 20:40:20 kg NPK/ha **T_0 – Sole Rice**													
	Cereal Production	**Performance evaluation of finger millet** **T_1 (VL- Mandua 379)** ➢ Duration: 103-111 days ➢ Sowing time – Last week of June to 1st fortnight of July ➢ Resistant yield- 31.31q/ha ➢ Resistant to Neck blast ➢ Seed rate: 10g/ha ➢ Fertilizer dose: 40:20:20kg/ha ➢ Weed mgt: 2,4-D sodium salt @0.75kg a.i/ha as post emergence ➢ Neck & Blast	**VPKAS, Almora, 2018**	Assessment	**1.25 ha**		**Ingourok Langathel, Heirok, Salungpham & Sikhong.**	June – Oct, 2024	-	-	-	5	-	5	5

		resistance **T_2 (VL Mandua- 376)** ➢ Duration: 103-109 days ➢ Sowing time – Last week of June to 1st fortnight of July ➢ Potential Yield: 29-31 q/ha ➢ Seed rate: 10g/ha ➢ Fertilizer dose: 40:20:20kg/ha ➢ Weed mgt: 2,4-D sodium salt @0.75kg a.i/ha as post emergence ➢ Moderate resistance to blast **T_0 (VL Mandua-380)** ➢ Duration: 110-120 days ➢ Sowing time – Last week of June to 1st fortnight of July ➢ Potential yield: 15-20q/ha ➢ Seed rate: 10g/ha ➢ Fertilizer dose: 40:20:20kg/ha ➢ Weed mgt: 2,4-D sodium salt @0.75kg a.i/ha as post emergence													

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: Mega Maize -2 (Composite) ➢ Seed rate:15kg/ha ➢ Spacing: 90cmx 25 cm ➢ Soybean: VL Soya 63 ➢ Seed rate:30kg/ha ➢ Spacing: 30 cm x 10 cm ➢ Seed treatment – Carbendazim @4gm/kg seed ➢ 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 Tasseling stage	ICAR-IIMR, New Delhi, 2010	10	1.25	Papal, Heirok, Wangjing, Lamding, Salungpham	June- Oct, 2024	-	-	-	8	2	10	10
	Pulse production	**Weed management in kharif Blackgram var. Tripura maskolai** **Pre-emergence**	**RARS, Shillongani, Nagaon, AAU (2015)**	10	1.25	Hijam Khunou, Kakmayai, Heirok, Nongpok Sekmai,	Aug – Oct, 2024	-	-	-	10	-	10	10

		application of herbicide • T_1-Pendimethalin @ 3 litre/ha at 1 DAS + 1 HW at 20-25 DAS • T_0 – 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: No. of ploughs (4-5)				Lourembam								

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													
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO (including school drop													

	outs)													
	Others													
Vocational training programmes	Farmer and Farm women													
	Rural Youth													
	Extn. Personnel													
	Civil Society													
	NGO													
	Others													
Sponsored training programmes	Farmer and Farm women													
	Rural Youth													
	Extension Personnel													
	Civil Society													
	NGO(including school drop outs)													
	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	48	Throughout the year		25	15	40	148	72	220	173	87
Advisory services/ telephone talk	1300	Throughout the year		107	68	175	896	329	1225	1003	397
Training Manual	5			-	-	-	-	-	-	-	-
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)	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			85	35	120	426	198	624	511	233
Farmers' Seminar	2			-	-	-	-	-	-	-	-
Farmers' visit to KVKs	1500			65	20	85	735	680	1415	800	700
Ex-trainees' meet	3			-	-	-	-	-	-	-	-
Field day	3			-	-	-	95	55	150	95	55
Film show	10			32	16	48	502	350	852	534	366
Radio Talk	12			-	-	-	-	-	-	-	-
TV talk	8			-	-	-	-	-	-	-	-
Kisan Gosthi	2			-	-	-	45	25	70	45	25
Group Meeting	11			12	8	20	195	85	280	207	93
KisanMela	1			10	20	30	30	25	55	40	45
Soil Health Camps	5			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	18			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 2022-23

KVK: Thoubal, Manipur

Activity/ Month		Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
OFT (No.s.)														
i.	Number of Technologies	1	1	5	2	-	-	1	1	1	-	-	-	**12**
i.	Number of Trials	5	5	25	10	-	-	5	5	5	-	-	-	**60**
ii.	Area (ha)/ items (no.)	0.25	1.25	4.5	6.5	-	-	0.25	-	0.3	-	-	-	**13.05**
FLD (Nos.)														
i.	Number	8	10	30	30	18	-	-	-	20	-	-	-	**116**
ii.	Area(ha)/ items (no.)	0.5	-	2.5	2.5	1.75	-	-	-	4.5	-	-	-	**11.75**
Training programme														
Farmer														
i.	No. of course	5	3	4	2	4	-	3	2	2	-	1	-	**26**
ii.	No. of participants	75	45	60	30	30	-	45	30	30	-	15	-	**360**

Rural Youth													
i. No. of course	-	1	1	4	1	2	1	4	-	1	1	-	**16**
ii. No. Of participants	-	15	15	60	45	30	15	60	-	15	15	-	**270**
Ext. Personnel													
i. No. of course	-	1	-	-	-	1	-	-	1	-	3	1	**7**
ii. No. Of participants	-	15	-	-	-	15	-	-	15	-	45	15	**105**
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	10.61			2	3.8	**30.21**
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.)	-	-	100					100	20	2			**222**
Fingerlings (No. in lakh)					0.06	0.04	0.02				0.03		**0.15**
Bio-agents/ products (tonnes)													
Bio-fertilizers/ Vermicompost etc. (in Tonnes)	0.02	-	0.02	-	0.06	-	0.01	0.02	-	-	-	0.1	**0.13**
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	80	130	130	80	70	**1300**
Mobile Agro-Advisory (No. of Farmers)	450	450	450	700	700	500	470	400	450	500	450	500	**6000**