#### 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:

#### **Present Staff Position in KVK:**

Sl. No.	Name	Gender (M/F)	Category (General/OBC/SC/ST)	Designation	Discipline
1.	Dr. T. Vanlalngurzauva	Μ	ST	Senior Scientist & Head	Soil & Water Conservation
2.	K. Lalmalsawmi	F	ST	SMS	Home Science
3.	Kenny Zohmingliana	М	ST	SMS	Agronomy
4.	Dr. C. Lalremruata	М	ST	SMS	Animal Science
5.	Mary Lalfakzuali	F	ST	SMS	Soil Science
6.	Liansangpuii	F	ST	SMS	Agriculture Engineer
7.	Dr. Rohit Shukla	Μ	General	SMS	Horticulture
8.	Lalthanmawia Tlau	М	ST	Programme Assistant	Assistant
9.	F. Lalmuankima	М	ST	Programme Assistant	Farm Manager
10.	Lallawmzuala	М	ST	Programme Assistant	Computer Programmer
11.	Jeffrey Lalhmingmuana	М	ST	Assistant	Agriculture Extension
12.	C. Thangpuii	F	ST	Stenographer	Stenographer - III
13.	Vanlalhmuaka Hmar	М	ST	Driver-cum-Mechanic	Driver
14.	Vacant		ST	Driver-cum-Mechanic	Driver
15.	Lallungmuana	М	ST	Supporting Staff	Supporting Staff
16.	Ronnie Lalremsiama	М	ST	Supporting Staff	Supporting Staff
Total: 1	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:** Agronomy

## Name of the concerned Subject Matter Specialist:

Kenny Zohmingliana

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E-mail address: kzohmingliana@gmail.com

Mandate	Thematic Area	Details of Technology	Source	Assess/	Area	No of	Locat	Period		Num	ber of b	enefic	iaries		
d			and	Refine	(in	trial	ion	and		SC/S	Т	Ū	Gener	al	Grand
activities			Year of		Ha)			Duratio	Μ	F	Tota	Μ	F	Tota	Total
			release					n			1			1	
	Varietal Evaluation	Technology : TCGS -	ANGR	(A)Ass	1.5	3	N.Van		10	5	15				15
		1694 (Duration : 100-	AU,	essmen			laipha								
		105 (Kharif), Tolerant	Guntur	t on			i								
		to foliar diseases :	2022	Perfor			Lungk								
		ELS,LLS & Rust,		mance			awlh								
		Salient features :	BARC,	of			Leng								
		Uniform Maturity with	Mumba	Ground											
		attractive pod & kernel	i 2021	nut											
		quality (pink testa with		Varieti											
		49 % Oil), Water use		es in											
ng		Efficient		Serchhi											
On farm testing		Technology : TAG-73		р											
1 te		(Gamma ray Mutant)		District											
		Duration : 105-115													
n fi		Days													
0 <sup>1</sup>		Salient features: More 3													
		seeded smooth pods,													
		high shelling %, pod													
		yield 3000 Kg/Ha													
	Varietal evaluation	Technology : CUMS	Univers	(A)Ass	1.5		N.Van		10	5	15				15
		17	ity of	essmen			laipha								
		(Superior performance	Calcutt	t on			i,								
		under timely, early &	a, 2018	perfor			Lungc								1
		late sown condition, 48-		mance			hhuan								1
		50 % Oil content, 88-92	RARS,	evalua			,								1
		days duration, Highly	Shillong	tion of			Tuich								1

		resistant to Root rot, Phyllody & Powdery Mildew, suitable for high heat & drought situation) <i>Technology :</i> <i>Champawati (AAU</i> <i>SHL TIL 1)</i> (Medium duration (80 days), Recommended for Summer season, Potential Yield – 904 Kg/Ha, Oil content – 46-49 %)	ani 2019	Sesam e for 3highe r yield under <i>Jhum</i> in Serchh ip Distric t			ang								
Mandate	Thematic Area	Technology/Crop/Cro	Source	Demon	Area	Loca	tion	Period			Numbe	r of be	enefici	aries	
d		pping system	and Year		(in	2000		and		SC/S		1	Gener		Grand
activities			of release		Ha)			Duration	Μ	F	Tota l	Μ	F	Tota l	Total
	Weed Management	Integrated Weed Management : Hand/ Mechanical Weeding @ 15 DAT, Application of Bispyribac Sodium @ 25 g/ Ha.at 30 DAT	IARI New Delhi	7 15	10	N.Van ai, Lungc n	•		10	5	15				15
	Varietal evaluation	CFMV – 1 (Biofortified Variety, Duration – 110 days,Av. Yield – 32 Q/Ha. Resistant to Finger & Neck Blast, Foot rot & Banded Blight, Non Lodging ,Fertilizer responsive, Ca – 4280 ppm,Fe – 58	ANGRAU , 2020	15	10	N.Van ai	ılaiph		10	5	15				15

		ppm, Zn -44.5 ppm)												
Mandated	Target group	Title of the training	No. of	Period	Durat	On/Off				er of b	eneficia			Remarks
activities		Programme and No. of Courses in bracket	training progs	of the year	ion (in days)	campu s	M	SC/S F	T Total	Μ	Genera F	al Total	Gran d Total	
	Farmer and Farm women	Integrated Weed Management in Paddy	2	June, August	2	Off	25	15	40				40	
		Integrated Weed Management in Paddy	2	June, August	2	On	20	10	30				30	
		INM in Oilseeds (Sesame, Soybean, Sunflower,Groundnut)	4	April, July, Sept, Nov,	4	On	80	40	120				120	
On and Off campus training		INM in Oilseeds (Sesame, Soybean, Sunflower,Groundnut)	4	April, July, Sept, Nov,	4	Off	10 0	60	160				160	
programmes	Rural Youth	Saffron Cultivation Practices	1	Octobe r	1	On	30	20	50				50	
	Extension Personnel													
	Civil Society NGO (including school drop outs)													
	Others													
ed g nes	Farmer and Farm women													
Sponsored training programmes	Rural Youth Extension Personnel													
Q	Civil Society NGO(including													

outs)     Others	school dr	,p						
Others	outs)							
	Others							

# **Discipline: Horticulture**

#### Name of the concerned Subject Matter Specialist: Dr.Rohit Shukla

**Mobile No:** 94361 58902

E-mail address: roshuhort@gmail.com

Mandate	Thematic Area	Details of Technology	Source	Assess/Re	Area	No	Locatio	Period		Num	ber of b	enefic	iaries		
d			and Year	fine	(in	of	n	and		SC/S	Г	(	Gener	al	Grand
activities			of release		Ha)	trial		Duratio	Μ	F	Tota	Μ	F	Tota	Total
								n			l			l	
	Varietal Trial	Arka Sukomal (High	ICAR-	(A)Assess	1	3	N.		10	5	15				15
		yielding, indeterminate,	IIHR,	ment of			Vanlaip								
		rust resistant pole type	Bangalor	varietal			hai,								
		variety.)	e 2018	performa			Lungch								
				nce of			huan,								
හ		Zorin (State Variety)		different			Lungka								
itin				varieties			wlh								
tes				of French											
E E				bean for											
On farm testing				higher											
)u				income											
	Nutrient	Variety -Tall	AAU,	(A)Assess	1.5	3	N.		10	5	15				15
	Mangement	Cavendish, Spacing-	Jorhat,20	ment of			Vanlaip								
		3mx3m	17	stage-			hai,								
		Application of 200 g		wise			Lungch								
		lime & 12 kg FYM at		nutrient			huan,								
		time of pit filling one		requirem			Khawla								

rr		n			1		1	1				
		month before planting.		ent in		ilung						
		Application of		Banana								
		110 g N/plant,										
		$33 \text{ g P}_2\text{O}_5/\text{plant}$										
		and 330 g										
		K <sub>2</sub> O/plant										
		• Full amount of										
		P <sub>2</sub> O <sub>5</sub> @3 MAP										
		Apply nitrogen and										
		potassium of 100% RDF										
		in splits as 22:49.5,										
		33:82.5, 33:99 and										
		22:99 g per plant at 3rd,										
		5th, 7th, 9th month after										
		planting										
		planting										
		Application of 200g										
		lime, 12 kg FYM/plant,										
		55 g N/ plant, 33 g										
		P2O5/plant, 330 g										
		K2O/plant and 25g each										
		of Azospirillum and										
		Phosphate Soluble										
		Bacteria (PSB) per plant										
		Dacteria (1 SD) per plant										
Nutrie	ent	Application of designer	ICAR -	(A)Assess		N.	10	5	15			15
	gement	micro nutrient mixture	IISR	ment the		Vanlaip	10	5	15			15
Inana	Sement	for ginger @ 5g/L water		effect of		hai,						
		applied as foliar spray at		applicati		Lungka						
		60 and 90 days after		on of		wlh,						
		sowing +		designer		Lungch						
		Recommended dose of		micro		huan						
		fertilizer (RDF) 10 t		nutrient		nuan						
		FYM/ha and 60:90:60		mixture								
		kg NPK/ha.		on								
		1.5 I II II III.		growth								
		Application of RFD(10 t		and yield								
		Trenoution of RID(101		and yield				1	1	1		

		FYM/ha and 60:90:60 kg NPK/ha.)	of	ginger											
Mandate d activities	Thematic Area	a Technology/Crop/Cro pping system	Source and Year of release	Demon (No.)	Area (in Ha)	Locatio	on Perio and Durat	d E	M	SC/S F	Numbe T Tota	1	eneficia Gener F		Grand Total
	Varietal trial	Arka Abhed (H-397) Resistant to leaf curl, bacterial wilt, early & late blight		10	4	N. Vanlaip i, Lungka h, Lungch an, E.Lung r, Len	wl hu da		15	5	20				20
	Nutrient Management	Application of biofertilizer (Azotobacter+PSB)@2 kg+ vermicompost 1t/ha incubated for 15 days and NPK@ 60:30:30kg/ha mixture applied as circular band placement at 10 and 30 days after planting	AAU Jorhat, 2015	10	2	N. Vanlaip i, Lungch an, E.Lung r, Leng Sailula	hu da g,		10	5	15				15
Mandated activities	0 0	p Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Durat ion (in days)	On/Off campu s	SC/ST M F			Ge	ficiaries neral F T		Gran d Total	Rei	narks

				г	1	1			1		
	Farmer and Farm women	Off Season vegetable production (2)	2	May, 2024	3	On	18	12	30	30	
				July,20 24	3						
						On	18	12	30	30	
		Cabbage Cultivation (1)	1	June,20 24	3	Off	18	12	30	30	
		Cultivation of high value crops (2)	1	August ,2024	3	Off	18	12	30	30	
		Ginger cultivation (1)	1	April 2024	3	Off	18	12	30	30	
On and Off campus		GAP for tomato cultivation (1)	1	Septem ber 2024	3	Off	18	12	30	30	
training programmes	Rural Youth	Nursery management of Horticultural crops for entrepreneurship development (1)	1	Octobe r ,2024	3	On	20	15	35	35	
		Scientific management of orchard for higher income (1)	1	March, 2024	3	On	20	15	35	35	
	Extension Personnel	Protected cultivation of horticultural crop (1)	1	Novem ber, 2024	3	On	15	5	20	20	
	Civil Society										
	NGO (including school drop outs)										
	Others										
red ng mm	Farmer and Farm women	Cultivation of high value crops	1	Octobe r,2024	3	Off	20	15	35	35	
Sponsored training programm es	Rural Youth	Protected cultivation	1	August ,2024	3	On	15	10	25	25	
b S	Extension										]

Personnel							
Civil Society							
NGO(including							
school drop							
outs)							
Others							

## **<u>Discipline</u>: Animal Science** Name of the concerned Subject Matter Specialist :.Dr.C.Lalremruata

Mobile No: 98627 82786

## E-mail address: dr.ruatalpm@gmail.com

Mandate	Thematic Area	Details of Technology	Source	Assess/	Ar	No	Locatio	Period		Num	ber of b	enefic	iaries		
d			and	Refine	ea	of	n	and		SC/S	Г	J	Gener	al	Grand
activities			Year		(in	trial		Duratio	Μ	F	Tota	Μ	F	Tota	Total
			of		Ha			n			1			1	
			release		)										
	Breed Evaluation	Rearing of Large White	CAU	(A)Per		3	Serchhi		3		3				3
		Yorkshire breed under	Selesih	forma			р,								
		intensive housing system.	, 2020	nce											
				Assess			Lungch								
50		Feeding with locally		ment			huan, N.								
tin		available feeds and		of			Vanlaip								
On farm testing		compound feeds.		Large			hai								
ц.		Regularly deworming		White											
far		with fenbendazole@5-7		Yorks											
)u		mg/kg body wt. , vitamin		hire											
0		supplementations @ 30-		under											
		50gm/animal/day followed		field											
		by strict biosecurity		conditi											
		measures.		on											

	Feeding Management	<ul> <li>50 gm/day OD for 3 months at grower stage</li> <li>70 gm/day OD after 4 months 100 gm/day after 6 months at finisher stage/gestation period/sow</li> </ul>	Selesih , 2020	(A)Eff ect of area specifi c miner al mixtur e on The perfor mance of crossb red pigs		5 N.Var iphai, Serch p, Lungo huan	hi	3	2	5				5
Mandate	Thematic Area	Technology/Crop/Cro	Source	Demon	Area	Location	Period			Numbe	1			1
d activities		pping system	and Year of release	(No.)	(in Ha)		and Duration	Μ	SC/S	T Tota	M	Gener F	al Tota	Grand Total
										1	171	ľ	l	
Front Line Demonstration	Breed evaluation	Housing materials: Plastic/metal wire mesh. Space requirement: 5 adult/sqft area Temperature requirement: a) Adult: 10-20°C b) Chicks: 30- 32°C 4) Brooding time: 2-3 weeks Feeding:	CVSc & AH, CAU Selesih, Aizawl, 2021	10		Khawlailu ng, N.Vanlaipl ai, Serchhip		5	5	10				10

	'eeding Aanagement	Starter feeds upto 5 weeks Layer feeds from 5 onward Sex ratio (Male:Female)= 1:5 1) 20% Azolla, 20% boiled rice and 60% concentrate feeds 2) Azolla unit (6x4x1ft) using Pondliner (250- 300 micron)	Central Avian Research Institute, Bareilly, U.P 20	10		N.Vanl hai, Serchł Khawla ng	nip,			5	5	10			10
Mandated	Target group	Title of the training	No. of	Period	Durat	On/Off			Numb	oer of	benefi	iciarie	es		Remarks
activities		Programme and No. of	training	of the	ion	campu		SC/S			Gen	eral		Gran	
		Courses in bracket	progs	year	(in days)	S	Μ	F	Total	Μ	F	ך י	Fotal	d Total	
On and Off	Farmer and Farm women	Quail farming (2)	2	May, 2024 July,20 24	3 3	On	18	12	30					30	
campus training						On	18	12	30					30	
programmes		Piggery farming (1)	1	June,20 24	3	Off	18	12	30					30	

		piggery (2)		,2024								
		Azolla cultivation (1)	1	April 2024	3	Off	18	12	30		30	
		Disease Management in piggery (1)	1	Septem ber 2024	3	Off	18	12	30		30	
		Feeding Management in Poultry (1)	1	July,20 24	3	Off	18	12	30		30	
	Rural Youth	Disease management in poultry (1)	1	Octobe r,2024	3	On	20	15	35		35	
		Scientific management of poultry rearing (1)	1	March, 2024	3	On	20	15	35		35	
	Extension Personnel	Quail farming enterprise (1)	1	Novem ber, 2024	3	On	15	5	20		20	
	Civil Society NGO (including school drop outs)											
	Others											
	Farmer and Farm women	Quail farming enterprise	1	Octobe r ,2024	3	Off	20	15	35		35	
Sponsored training programmes	Rural Youth	Disease management in piggery farming	1	August ,2024	3	On	15	10	25		25	
onsored traini programmes	Extension Personnel											
prog	Civil Society NGO(including											
St	school drop outs)											
	Others											L

#### Soil Science Discipline:

Name of the concerned Subject Matter Specialist : Mary LalfakzualiMobile No:70851 47213

E-mailaddress: vuite95@gmai.com

Thematic Area	Details of Technology	Source	Assess/	Ar	No	Locatio	Period		Num	ber of b	enefic	iaries		
		and	Refine	ea	of	n	and			Г	(	Gener	al	Grand
		Year		(in	trial		Duratio	Μ	F	Tota	Μ	F	Tota	Total
				Ha			n			1			1	
Soil health management	Phosphorus management in rice based cropping system <i>Technology :</i> <i>T1:</i> 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seed Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. <i>T2:</i> 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. <b>T3:</b> Farmers' practice	AAU, 2020 (T1) IFFCO, 2022 (T2)	Assess	1	2	N. Vanlaip hai, Lungch huan	2024- 2025	2	2	4				4
Nutrient management	Bio Stimulant on Cabbage <i>Technology :</i> <i>T1:</i> Nursery : 15 DAS, 25 DAS	ICAR, CIFT, 2023	Assess	0.5	2	N. Vanlaip hai, Lungch huan	2024- 2025	2	2	4				4
	Soil health         management         Nutrient	Soil health managementPhosphorus management in rice based cropping systemTechnology : T1: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seedHalf dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB.T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceNutrient managementPerformance of Bioquest Bio Stimulant on Cabbage Technology : T1: Nursery : 15 DAS, 25	Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Technology : TI: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seedIFFCO, 2022 (T2)Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceNutrient managementPerformance of Bioquest Bio Stimulant on Cabbage T1: Nursery : 15 DAS, 25 DASICAR, CIFT, 2023	Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)AssessSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)AssessTechnology : TI: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seedIFFCO, 2022 (T2)AssessHalf dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB.IFFCO, 2022 (T2)T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/I foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceICAR, CIFT, 2023Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage T1: Nursery : 15 DAS, 25 DASICAR, 2023	Soil health managementPhosphorus management in rice based cropping systemAAU, releaseRefine (in Ha 2020 (T1)Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess 2020 (T1)Technology : TI: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seedIFFCO, 2022 (T2)Assess (T2)Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/1 foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceICAR, CIFT, 2023Assess 0.5Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage T2: Nursery : 15 DAS, 25 DASICAR, 2023Assess (IFT, 2023	Soiland Year ofRefine (in trial HaSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12Technology : T1: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seedIFFCO, 2022 (T2)(T2)IFFCO, 2022 (T2)IFFCO, 2022 (T2)Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@ 5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceICAR, CIFT, 2023Assess0.52Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage T1: Nursery : 15 DAS, 25 DASICAR, 2023Assess0.52	Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Refine release (in Haea (in trial HanSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N.Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N.Technology : T1: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg basal dose and remaining half at 30DAT. Full dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceICAR, CIFT, 2023Assess0.52N. Vanlaip hai, Lungch hai, LungchNutrient managementPerformance of Bioquest Bio Stimulant on Cabbage Technology : T1: Nursery : 15 DAS, 25 DASICAR, 2023Assess0.52N. Vanlaip hai, Lungch	Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage T1: Nursery: 15 DAS, 25and Year of AU, 2020Refine (in (in Haea (in trial Hanand Duratio nSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 2024 Vanlaip hai, Lungch huan2024- 2025Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 2024- Vanlaip hai, Lungch huan2024- 2025Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 2024- Vanlaip hai, Lungch huan2024- 2025Soil health managementPhosphorus management in rice based cropping systemFFCO, 2022 (T2)IFFCO, IFFCO, 2022IFFCO, IFFCO, IFFCO, IFFIFFCO, IFFCO, IFFIFFIF	And Year of releaseRefine (in trial Ha of releaseea (in trial Ha of releaseof trial Ha of releasenand Duratio nSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. Vanlaip hai, Lungch huan2024- 20252Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. Vanlaip hai, Lungch huan2024- 20252Soil health managementPerformance of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB.IFFCO, 2022 (T2)112N. Vanlaip hai, Lungch huan2024- vanlaip2Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage Technology : T1: Nursery: 15 DAS, 25 DASICAR, 2023Assess0.52N. Vanlaip hai, Lungch huan2024- vanlaip2	Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 2024 Lungch hai, Lungch huan2024- 22522Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 20252024- 202522Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N. 2026 hai, Lungch huan2024- 202522Soil health managementPerformance of Bioquest Bio Stimulant on Cabbage Technology : T1: Nursery: 15 DAS, 25 DASICAR, CIFT, 2023Assess0.52N. vaniap hai, curve huan2024- 202522Nutrient managementPerformance of Bioquest DASICAR, CIFT, 2023Assess0.52N. vaniap hai, curve huan2024- 202522	Nutrient managementPerformance of Bioquest Bio Stimulant on Cabbage Technology : T1: Nutrient managementRefine Year of of releaseea (in trial Ha 0nand trial Dat NSC/STSoil health managementPhosphorus management in rice based cropping system (T1)AAU, 2020 (T1)Assess12N. Vanlaip hai, Lungch huan2024- 2025224Soil health managementPhosphorus management in rice based cropping system (T1)AAU, 2020 (T1)Assess12N. Vanlaip hai, Lungch huan2024- 2025224Soil health managementProto dipping 50g PSB/kg seed Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@ 5ml/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-3DDAT T3: Farmers' practiceICAR, CLET, 2023Assess0.52N. Vanlaip hai, Lungch Lungch2024- L224	and Year of releaseRefine (in trial Haea of trial Haof trial Haand Duratio nSC/STMSoil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N.2024- 2025224Soil health managementPhosphorus management in rice based cropping systemAAU, 2020 (T1)Assess12N.2024- 2025224MTechnology : T1: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seed Half dose of N apply as basal dose and remaining half at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@m/L+ Nano DAP @ 2ml/l foliar spray i.e. 25-30DAT and 50-55 DAT. T3: Farmers' practiceICAR, CIFT, 2023Assess0.52N.2024- Vanlaip hai, Lungch huan2024- Vanlaip hai, Lungch224	And (in releaseRefine (in) releaseea (in) trial Han nand Duratio nSC/STGener MSoil health managementPhosphorus management in rice based cropping system Technology : T1: 40:20:40 NPK kg/ha + root dipping 50g PSB/kg basal dose and remaining haf at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@SmlL+ Nano DAP @ 2mult foliar spray i.e. 25-3DDAT. T3: Farmers' practiceICAR, CLFT, 2023Assess12N. 2024. Vanlaip hai, Lungch huan2024. Vanlaip hai, Lungch huan224INutrient managementPerformance of Bioquest DASICAR, 2023Assess0.52N. Vanlaip hai, Lungch huan2024. Vanlaip hai, Lungch huan224I	Nutrient management managementPhosphorus management in rice based cropping systemAAU, releaseRefine (in (in) Ha (in)of trial (in)n management (in)N MSC/STGeneral- IISoil health management management systemPhosphorus management rice based cropping systemAAU, 2020 (T1)Assess12N. Vanlaip hai, Lungch huan2024- Vanlaip hai, Lungch huan224IIIT/T; 40:20:40 NPK kg/ha + root dipping 50g PSB/kg seed Half dose of N apply as basal dose and remaining haif at 30DAT. Full dose of P, K at the time of transplanting, root dip with PSB. T2: 40:20:40 NPK kg/ha + root dipping Nano DAP@5ml/L+Nano DAP @ 2ml/I foliar spray i.e. 25:30DAT and 50:55 DAT.ICAR, CIFT, 2023Assess0.52N. vanlaip hai, Lungch huan2024- Vanlaip hai, Lungch huan224IINutrient managementPerformance of Bioquest B ostimulant on Cabbage Technology : T1: Nursery : 15 DAS, 25ICAR, DASAssess0.52N. Vanlaip hai, Lungch hai, Lungch2024- Vanlaip hai, Lungch2224IINutrient managementPerformance of Bioquest DASICAR, CIFT, 2023Assess0.52N. Vanlaip hai, Lungch2024- Vanlaip hai, Lungch224IIINutrient managementPerformance of Bioquest DAS </td

		<ul> <li>2<sup>nd</sup> application: 6 DAT</li> <li>3<sup>rd</sup> application: 9 DAT</li> <li>T2: Farmers' practice No biostimulant application</li> </ul>												
Mandate d	Thematic Area	Technology/Crop/Cro pping system	Source and Year	Demon (No.)	Area (in	Location	Period and		SC/S	Numbe		eneficia Gener		Grand
activities		pping system	of release	(190.)	(III Ha)		Duration	Μ	5C/5	Tota	Μ	F	al Tota	Total
	~ H A H		~						_	1			1	
Front Line Demonstration	Soil fertility management	Demonstration on Incorporation of organic mulches in tomato for enhancing crop productivity <b>Technology to be</b> <b>Demonstrated</b> T01: Mulching (Paddy straw) T02: Control (no mulching)	CAU, Imphal 2020	5	1	N. Vanlaiphai, Lungchhua n, Serchhip	2024- 2025	10	5	15				15
Front Line I	Integrated nutrient management	PopularizationofintegratednutrientmanagementinMandarin OrangeTechnologyTechnologytoDemonstratedFYM@5t/ha+Vermicompost@1t/ha+PSB@7.5gas soildrenching with RDF.	CAU, Imphal 2019	5	5	N. Vanlaiphai, Lungchhua n, Chekawn	2024- 2025	7	3	10				10

Mandated	Target group	Title of the training	No. of	Period	Durat	On/Off			Numb	er of b	eneficia	ries		Remarks
activities		Programme and No. of	training	of the	ion	campu		SC/S	Т		Genera	al	Gran	
		Courses in bracket	progs	year	(in days)	S	Μ	F	Total	Μ	F	Total	d Total	
	Farmer and	Integrated nutrient	3	2024-	5	On&Of	35	30	65			65	135	
	Farm women	management (3)		25		f								
		Composting	1	2024-	1	Off	10	10	20			20		
		technology(1)		25										
		Soil health	1	2024-	2	On	15	10	25			25		
		management(1)		25										
		Biofertilizers and	1	2024-	1	On	15	10	25			25		
On and Off		nanofertilizers (1)		25										
campus	Rural Youth	Soil sampling techniques	1	2024-	1	Off	10	10	20			20	40	
training		and its importance (1)		25										
programmes		Balance use of fertilizers	1	2024-	1	On	10	10	20			20		
programmes		(1)		25										
	Extension	Soil health	1	2024-	1	On	10	10	20			20	20	
	Personnel	management(1)		25										
	Civil Society													
	NGO (including													
	school drop													
	outs)													
	Others													
										T				
	Farmer and													
lg	Farm women													
inii SS	Rural Youth													
irai me	Extension													
ational train programmes	Personnel													
ons	Civil Society													
ati prc	NGO(including													
700	school drop													
-														
	Others													
Vocational training programmes	outs) Others													

#### **<u>Discipline:</u>** Agriculture Engineer

Name of the concerned Subject Matter Specialist:

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Mandate	Thematic Area	Details of Technology	Source	Assess/	Area	No of	Locat	Period		Num	ber of b	enefic	iaries		
d			and	Refine	(in	trial	ion	and		SC/S			Gener		Grand
activities			Year of		Ha)			Duratio	Μ	F	Tota	Μ	F	Tota	Total
			release					n			1			l	
	Soil Conservation	Contour line will be	ICAR-	(A)Ass	1	3	N.		3		3				3
		marked using 'A'	IISWC,	essmen			Vanla								
		Frame. Trenches will	Uttarak	t of			iphai,								
		be dug along the	hand	Soil			Lung								
		contour and against the	(2014)	conser			chhua								
		slope. The cut soil will		vation			n,								
		then be filled as bund.		using											
				contou											
				r											
ng				trenchi											
On farm testing	Drip Irrigation	Gravity fed drip	САЕРН	ng (A)Per	1.5	3	N.	3		3				3	
n te	Drip inigation	irrigation of tomato	T,	forma	1.5	5	Vanla	5		5				5	
arn a		under protected	CAU,	nce			iphai,								
n fá		cultivation. The	Sikkim	evalua			Lung								
Ō		irrigation system	(2011)	tion of			chhua								
		include overhead tank	(2011)	gravity			n,								
		at 1-1.5m height, screen		-fed			,								
		filter with control		drip											
		valve, main line LDPE		irrigati											
		32 mm pipe,16mm		on											
		lateral and dropper		system											
		11		for											
				vegeta											
				ble											

				under protect ed cultiva tion										
Mandate d	Thematic Area	Technology/Crop/Cro pping system	Source and Year	Demon (No.)	Area (in	Location	Period and		SC/S	Number		enefici Gener		Grand
activities		pping system	of release	(110.)	Ha)		Duration	Μ	F	Tota	Μ	F	Tota	Total
										1			1	
	Drudgery reduction	It is manually operated equipment to separate kernels from groundnut. It can be operated in sitting posture. This consists of frame, handle and oscillating arm. It reduced the physiological and muscular efforts of farm women with increased output in a lesser time.	CIAE, Bhopal, 2010	10		N. Vanlaipha i, Lungchhu an, Lungkawl h, Leng		5	5	10				10
	Rain water harvesting	<ul> <li>Digging of pit size 3.0 m x 1.5 m x 1.0 m</li> <li>Lining with UV stabilised black polythene of 250µ thickness</li> <li>After collection of rainwater, pit to be covered with thatch made out</li> </ul>	CRIDA, Hyderaba d, 2017	10		N. Vanlaipha i, Lungchhu an	5	5	10				10	

		of locally available material.											
Mandated activities	Target group	Title of the training Programme and No. of Courses in bracket	No. of training progs	Period of the year	Durat ion (in days)	On/Off campu s	M	SC/S F		er of b M	oeneficia Genera F	Gran d Total	Remarks
	Farmer and Farm women	Soil and Water Conservation Practices (2)	2	June	2	Off	15	10	25			25	
		Farm Mechanization in Rice Cultivation (1)	1	July	1	On	30	10	40			40	
		Women Friendly farm tools and equipment (2)	2	August	2	On	0	30	30			30	
On and Off		Micro Irrigation System(1)	1	Septem ber	1	Off	25	20	45			45	
campus training	Rural Youth	Design of irrigation system (2)	2	Septem ber	2	On	15	20	35			35	
programmes		Storage structure	1	Novem ber	1	On	30	10	40			40	
	Extension Personnel												
	Civil Society NGO (including school drop outs)												
	Others												
Sponsored training programmes	Farmer and Farm women Rural Youth Extension												
Spo tr prog	Personnel Civil Society												

NGO(including school drop outs)							
Others							

## **<u>Discipline:</u>** Home Science

Name of the concerned Subject Matter Specialist:

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Mandate	Thematic Area	Details of Technology	Source	Assess/	Area	No of	Locat	Period		Num	ber of b	enefic	iaries		
d			and	Refine	(in	trial	ion	and		SC/S	Т		Gener	al	Grand
activities			Year of		Ha)			Duratio	Μ	F	Tota	Μ	F	Tota	Total
			release					n			l			1	
	Processing and	Soaking with	NIFTE	(A)Ass		3	<b>N.</b>		2	3	5				5
	Value Addition	sulphating solution	Μ	essmen			Vanla								
		(Sodium meta-	(Nation	t of			iphai,								
		bisulphite @ 2.5 ppm)	al	Dried			Lung								
			Institut	Chilli			chhua								
ng		Thermal treatment	e of	Flakes			n								
esti		(Blanching	Food	produc											
On farm testing		Technology)	Technol	tion											
			ogy	and											
l fî			Entrepr	Econo											
I O			eneursh	mic											
			ip &	Analys											
			Manage	is for											
			ment),	Incom											
			Sonipat	e											
				Gener											

				ation											
	Value addition	Blanching Method followed by Sodium Benzoate Preservation @1.9 ppm		(A)Assessment onPreparationofValueAddedChilliProduct(ChilliSauce)		3	N. Vanla iphai, Sailul ak	2	3	5				5	
Mandate	Thematic Area	Technology/Crop/Cro	Source	Demon	Area	Loca	ation	Period			Number	r of b	enefici	aries	
d		pping system	and Year	(No.)	(in			and		SC/S			Gener		Grand
activities			of release		Ha)			Duration	М	F	Tota l	Μ	F	Tota l	Total
	Value addition	Increasing pH of cane juice with lime, up to 6.0-6.2 and striking point temperature of 120°C was found to yield quality granular jaggery with high	(IIFPT, Tamil Nadu) Indian Institute of Food Processing			Khaw ng	lailu		5	5	10				10

		reduced to less than 2 per cent and packed in polyethylene polyester bags or polyethylene bottles, can be stored for longer time (more than two years), even during monsoon period with little changes in quality														
Mandated	Target group	Title of the training	No. of	Period	Durat	On/Off			Numb	oer of l	benefic	iaries			Remarks	
activities		Programme and No. of	training	of the	ion	campu		SC/S	1		Gene			Fran		
		Courses in bracket	progs	year	(in days)	S	M	F	Total	M	F	Tot		d Cotal		
	Farmer and Farm women	Value addition of chilli	2	4 <sup>th</sup> - August 2024 9 <sup>th</sup> Octobe r 2024	2 days	On	`10	15	25				25	5		
On and Off campus training programmes		Value addition of Mango	2	21 <sup>st</sup> June 2024 7 <sup>th</sup> July 2024	2 days	On	`10	15	25				25	5		
		Nutri Garden	1	19 <sup>th</sup> June 2024	1 day	On	`10	15	25				25	5		
			1	11 <sup>th</sup> June	1 day	Off	35	37	72				72	2		

				2024								
				2024								
	Rural Youth	Soap Making	1	21 <sup>st</sup> July 2024	1 day	On	5	5	10		10	
		Value addition on fruits and vegetables	1	11 <sup>th</sup> Novem ber 2024	1 day	off	30	30	60		60	
	Extension Personnel	Nutri Garden	1	17 <sup>th</sup> Septem ber	1 day	Off		19	19		19	
	Civil Society NGO (including school drop outs)											
	Others											
	C undi S											
ß	Farmer and Farm women Rural Youth											
onsored traini programmes	Extension Personnel											
Sponsored training programmes	Civil Society NGO(including school drop											
Σ.	outs) Others											

# **EXTENSION ACTIVITIES PROPOSED FOR THE YEAR 2024**

	No. of	Damia d of	Duratio	Number of beneficiaries (No.)												
Specific activity	No. of	Period of	n (in		SC/ST			General		Gran	d Total					
	activities	the year	days)	Μ	F	Total	Μ	F	Total	Μ	F					
Diagnostic visit	30	2024-25		80	40	120				80	40					
Advisory services/ telephone talk	80	2024-25		350	210	560				350	210					
Training Manual	12	2024-25														
Celebration of Important days	12	2024-25		400	336	736				400	336					
Exhibition	1	2024-25														
Exposure visit																
Extension literature (Leaflet/ folders/ Pamphlets)	30	2024-25		300	195	495				300	195					
Extension / technical bulletin	30	2024-25														
News letter																
News paper coverage	36	2024-25		500	350	850				500	350					
Research publications																
Success stories/ Case studies	3	2024-25		2	1	3				2	1					
Farm Science Clubs' Convenors																
meet																
Farmers' Seminar	1	2024-25		200	100	300				200	100					
Farmers' visit to KVKs	6	2024-25		60	40	100				60	40					
Ex-trainees' meet																
Field day	5	2024-2025		40	30	70				40	30					
Film show																
Radio Talk	6	2024-25		350	250	600				350	250					
TV talk	1	2024-25		300	200	500				300	200					
Kisan Gosthi																
Group Meeting	12	2024-25		50	40	90				50	40					
Kisan Mela																
Soil Health Camps	1	2024-25		30	20	50				30	20					
Animal Health Camps	1	2024-25		30	20	50				30	20					
Awareness camp Mobile Agro-Advisory																

(Messages/ Beneficiaries)								
Method demonstration	22	2024-25	24	20	44		24	20
Scientists' visit to farmers' field	36	2024-25	100	50	150		100	50
Workshop/ Seminar								
Soil Testing	20	2024-25	200	100	300		200	100
Water Testing								
Plant Testing								
Manure Testing								
Any other (Pl. Specify)								

# ACTIVITY CALENDAR OF THE KVK (MONTH-WISE TARGET TO BE COMPLETED) FOR THE YEAR 2024

KVK:

Ac	ctivity/ Month	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
OFT (No.s.)														
i. Nu	umber of Technologies			2	2	2	2	2	1	1				12
i. Nu	umber of Trials			6	6	6	6	6	3	3				36
ii. Ar	rea (ha)/ items (no.)													
FLD (Nos.)		1							1		1			
	ımber		1	2	1	2	1	1	2	1	1			12
ii. Ar	rea(ha)/ items (no.)		10	20	10	20	10	10	20	10	10			120
Training prog	gramme											-		
Farmer														
i. No	o. of course	5	2	9	7	8	5	2	3			1		39
ii. No	o. of participants	125	30	232	185	135	175	35	95			25		1037
<b>Rural Youth</b>		•							1					
i. No	o. of course				2		2	3	3				2	12
ii. No	o. Of participants				30		54	120	120				70	394
Ext. Personne	1	4	1	1	1			1	1		1			
i. No	o. of course						1		2				1	4
ii. No	o. Of participants						19		40				20	79
<b>Extension</b> Act	ivities/ programmes													
i. No	o. of activities													
ii. No	o. of beneficiaries													
Seeds product	tion (Q)													97.707
Planting mate	erials (Nos. in Lakh)													1,32,500
Livestock stra														140
Fingerlings (N														
	oducts (tonnes)													
<b>Bio-fertilizers</b> /	/ Vermicompost etc. (in													

Tonnes)							
Soil, Water, Plant, Manures Testing							20
(No. of samples to be tested)							
Soil, Water, Plant, Manures Testing							300
(No. of farmers benefitted)							
Soil , Water, Plant, Manures Testing							
(No. of villages covered)							
Mobile Agro-Advisory (No. of							130
Messages)							
Mobile Agro-Advisory (No. of							540
Farmers)							