Frontline Demonstration (FLD) 2020

FLD Summary

Discipline	Crop / Enterprise	Number of	No. of den	nonstrations	% of	Remark
		technology	Target	Achievement	achievement	
Agronomy	Rice	1	5	5	100	
	Rice	1	5	5	100	
Plant	Rice	1	8	8	100	
Protection	Cowpea	1	8	8	100	
PBG	Rice	1	10	10	100	
	Blackgram	1	10	10	100	
Fisheries	Fish based Integrated Farming System	1	7	7	100	
	Fish (Amur carp)	1	7	7	100	
Home Science	Roselle Jam	1	10	10	100	
	Assam mix	1	10	10	100	
Agriculture	Oilseed Mustard	1	135	135	100	
Extension	Soil Health Card	1	120	120	100	
	Total	12	80 Demo 255 Farmer	80 Demo 255 Farmer		

Discipline: Agronomy

FLD 1.

Title: Integrated Crop Management in rice (1st Year)

Crop: CAU R-1 (Tampha phou)

Area:1.25 ha

No. of Demo: 5

Technology demonstrated

ICM in rice

Var. CAU R-1 (Tampha phou)

Seed rate: 10 – 12 Kg/ha Nursery: modified mat

Spacing: 20x20cm

No. of seedling per hills -2 Fertilizer dose: 60:40:30 Kg

NPK/ha

Age of seedling: 15 - 17 days old.





Location

Bengi ,Ingourok, Waikhong , Hijam Khunou, Wangjing

Demons Yield(Qt			Yield of local	% increase	Gross Cost	Gross Return	Net Return	B:C Ratio (GR/GC)	
Н	L	Α	Check (q/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)		
72.00	65.00	67.50	58.50	13.3	72,000	1,35,000	63000	1.875	

Discipline: Agronomy

FLD 2.

Title: Popularization of Modified SRI 2nd Year

Crop: Rice Var. Tampha phou No. of Demo.: 5

Location

Area: 1.25 ha

Technology demonstrated

Seed rate-:7-10 kg/haOrganic manure:10t/ha

•NPK: 50% of recommended dose

•Seedling age :18-20 days; No. of seedling/hill:1

•Irrigation: intermittent wetting & drying

•Weed mgmt.: Cono + HW 2times at 10 days interval

Hijam Khunou,

Thoubal Okram, Wangjing,

Wangoo (2)

Demons (Qt/Ha)	tration '	Yield	Yield of local Check	% increase	Gross Cost (Rs/ha)	Gross Return	Net Return (Rs/ha)	B:C Ratio	
Н	L	Α	Qt/ha)			(Rs/ha)		(GR/GC)	
7.8	6.1	7.2	4.3	40.27	67,000	1,44,000	77,000	2.14	









Discipline : Plant Protection

FLD 1.

Title: Popularization of Voliam flexi in management of stem borers and plant hoppers in Rice 1st Year

Crop: Rice-SAVA-134 **Area:** 2.0 ha

Technology demonstrated

Management of stem borers and plant hoppers with Voliam flexi
(Chlorantraniliprole 8.8% W/W + Thiamethoxam 17.5% W/W @ 400ml/ha)





No. of Demo: 8

Location

Khangabok, Wabagai, Elang khangpokpi, Thoubal Ningombam

Demonst Yield(Qt/			Yield of local	% increase	Gross Cost	Gross Return	Net Return	B:C Ratio (GR/GC)	
Н	L	Check (q/ha)			(Rs/ha)	(Rs/ha)	(Rs/ha)		
63.50	57.80	60.70	58.78	3.16	108000	133540	25540	1.24	

Discipline : Plant Protection

FLD 2.

Title: Popularisation of Emamectin benzoate and yellow sticky traps in Fruit borer and Aphid management **1**st **Year**

Crop: Cowpea-Local cultivar

Area: 2.0 ha

No. of Demo: 8

Technology demonstrated

Fruit borer and Aphid
management with
Emamectin benzoate 5 SG
(0.002%) and yellow sticky
traps

Location

Kakching

Laipham lotnung

Heirok

Kakching Khunou

Sikhong sekmai

Wabagai

Langathel



Demons Yield(Qt			Yield of local	% increase	Gross Cost	Gross Return	Net Return	B:C Ratio (GR/GC)
Н	L	Α	Check (q/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
58.00	49.00	56.50	55.00	2.65	68200	213360	145160	3.13

Title: Seed production technology of rice var. RC Maniphou-13

Crop: Rice var. RC Mani-13 and CAU R1 (Tampha phou)

Area: 5 ha

No. of Demo: 10

Technology demonstrated

RC Mani-13

Seed rate: 20kg/ha

Seedling age: 20 days

Seedling per hills: Single

Spacing: 20 x 15 cm

Fertilizer: NPK kg 60:40:40





Location

Wangjing, Sekmaijin, Leiphrakpam, Wangmataba

Demons (Qt/Ha)	stration	Yield	Yield of local Check (q/ha)	% incre	Gross Cost	Gross Return	Net Return	B:C Ratio (GR/GC)	
Н	L	A	ase		(Rs/ha)	(Rs/ha)	(Rs/ha)		
62.00	53.00	58.00	55.00	5.17	75000	174000	99000	2.32	

Title: Participatory seed production of Black gram Var. PU-31 2nd Year

Crop: Black gram Var. PU-31

Area: 5 ha

No. of Demo: 10

Technology demonstrated

Variety: PU-31

Seed rate: 15 kg/ha

Spacing: 30 X 10 cm

Location

Ingourok,

Heirok,

Khongjom Sapam,

Charangpat,

Aram



Demor	stration `	/ield	Yield of local	% increase			Net Return	B:C Ratio (GR/GC)	
Н	L	A	Check (q/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)		
7.80	6.50	7.00	6.50	7.14	32000	63000	31000	1.96	

Discipline : Fisheries

FLD 1.

Title: Popularization of Fish base	d integrated farming system	(1st Year)
		·

Enterprise	Breed	No. of farmers	No. of animals/ poultry birds /Fish	Performance parameters/ indicators	Results on pain relation to technology demonstrat	0	% Change	Remark
Field become	Fish Code	7	fingerlings	1 Field wield	Demo	Local	20.2	
Fish based integrated farming	Fish : Catla, Rohu, Mrigal, Silver carp,	/	8000 fingerlings Khali	1.Fish yield 2. Avg. fish growth rate	3430kg/ha 80gm/mth	2480kg/ha 70gm/mth	38.3	
system	Grass carp, Common carp Duck: Khaki campbell Horticulture crops: cabbage, cauliflower, chilli, knol kohl,		campbell: 250	3. Duck yield 4. Horticulture yield (Kg/0.06ha) i. Cucumber ii. Chili iii. Cauliflower iv. Cabbage v. Knol kohl	325 kg 40 kg 15 kg 110 kg 120 kg 30 kg	-		Jacob 185145, India Jacob 185145, India Jacob 185145, India Jacob 1851552* MY 12132200 ALTITUS 115 MEER
	cucumber		Feedbac	5.B:C ratio	2.5	1.8		

Location:

Kakching, Nepra, Wangbal, Thoubal, Lourembam

- Reduced cost of fish farming
- Integration has enhanced fish productivity
- Increased income.



Discipline: Fisheries

FLD 2.

Title: Popularization of Amur carp in composite fish culture system (1st Year)

Enterprise	Breed	No. Of farmers	No. Of animals/ poultry birds /Fish	Performance parameters/ indicators	Results on in relation technology demonstra	,	% Change	Remarks
			fingerlings		Demo	Check (Local common carp)		
Composite fish farming	Amur commo n carp	7	10000 fingerlings Amur carp-	1. Final weight gain of Amur (8 months)	1200g	950g	26.3%	Better growth than existing local common
	Catla, Rohu		4000 Catla- 3000	2. Yield of the fish (Kg/ha)	4250kg	3530kg		carp, Late maturity, More profitable
Location: L	.eiphrakp	Rohu- 3000		3. B:C ratio g, Tentha, Wangi	2.23	2.0 gabok		& economically feasible in carp polyculture system











Discipline	: Home Science	FLD 1.	Tit	le: Popularizati	on of Rose	elle Jam (1 st Yea	r)
Enterprise	Technology	farmers/ of Pa		Performance Parameters/indi cator	in relation t technology demonstrat	ed	% Chang e	Remar ks
Domulovinsti	Extract postin from 1 kg	10	10	Product	Demo	Check	25	
Popularizati on of Roselle	Extract pectin from 1 kg roselle seed pods by boiling for 10 mins with	10	10	Recovery/kg	1.25 litre /Kg	1.00 litre/kg	25	
Jam: Roselle	200ml water ➤ Strain the pods			Shelf life (months)	6	6		
Calyces: 350g (Jam)	➤In the same water add roselle (350g) calyces and			BC ratio	2.1	1.3		
Sugar brix:	boil for 5 mins Add sugar (650g) and blend it			Nutritional conter -NEH, Imphal Cen	am (ICAR			
	➤ Boil in a very low flame ➤ Put off the flame and			Carbohydrate in gm	33.72	30.3		
	transfer it to sterilized			Protein in gm	0.18	0.28		
	glass jar			Sugar content in gm	33.18	23.74		









Roselle Jam

Feedback

Can be taken up as an enterprise to generate income from the available raw material.

Discipline : H	ome Science	FLD 2.		Title: Popularization of Assam Mix (1st Year)								
Technology de	monstrated		Performance Data on parameters in relation to Parameters/indicato technology demonstrated					n to				
•	Popularization of Assam Mix Rice :70%			r			technology demonstrated					
Rice : 70% Green gram: 20%			Adoption %		80							
Ground nut: 5%		:	Shelf life			3 months						
Sesame seed: 5	5%		Consumer		Like slightly (based on 5 point Hedonic						onic	
No of unit: 5			preferer	nce				scale)				
No. of farmers,	/ farm women: 5		Monthly	•	Au	Sept	Oct	Nov	Dec	Jan	Feb	
Farmers Feedback			weight(6	i de la companya de	g 6 F	6.0	7.4	7.0	0.2	0.7	0.2	

- •Cost of production is very less
- •Raw materials are easily available
- •Reduces expenditure for buying baby food

Performance Parameters/indicato r		•				n to		
Adoption %	80							
Shelf life	3 months							
Consumer preference	Like slightly (based on 5 point Hedonic scale)							
Monthly Boy weight(6 to 12	Au g	Sept	Oct	Nov	Dec	Jan	Feb	
months) in Kg	6.5	6.9	7.4	7.8	8.2	8.7	9.3	
Cost of production per kg	Rs.2	49/Kg						











Discipline : Agricultural Extension

FLD 1.

Title: Impact study on CFLD of oilseed Mustard Var. NRCHB-101 Under Zero Tillage Condition 1st Year

Enterprise	Technology (give details)	No. Of farmers/ Farm Women	No. Of Units/ Item etc.	Performance parameters/indicators	Results of parameter relation to technology demonstration to the parameter relation to the param	ers in o gy	% Change/increase over local	Remarks
Oilseed Mustard Var. NRCHB-101 under Zero tillage cultivation	varietal suitability, method of cultivation, Farmer acceptability, increase in income and productivity.	135	135	Crop Yield (q/ha) Increase in income (net income in Rs.) Adoption rate	NRCHB- 101 8.20 32900 135	Local Cultivar Yella 7.80 26700	- 15.21 18.84 85.18	Moderately accepted by farmers based on crop oil content, yield and locally suitable

Farmers Problem in adoption: 1. Lack of irrigation facilities 2. Marketing Problem 3. Stray cattle problem 4. Unavailability of HVY seed 5. Difficult for single Farmer





Location: :Thoubal & Kakching district

Data Collection and taking farmers feedback

Discipline : Agricultural Extension

FLD 2.

Title: Extent of Utilization of Soil Health Card prepared and distributed by KVK (1st Year)

Enterprise	Technology (give details)	No. Of farmers/ Farm Women	No. Of Units/ Item etc.	Performance parameters/indicators	Results on parameters relation to technology demonstrate		% Change/ increase over local	Remarks
Extent of Utilization of Soil Health Card prepared and distributed by KVK	Impact of soil test fertilizer recommendati on in production and productivity.	120	120	Kharif: Paddy Crop Yield (q/ha) Increase in income (net income in Rs.) BCR Rabi: Field Pea Crop Yield (q/ha) (Grain) Increase in income (net income in Rs.) BCR	52.0 55700 1.42 9.20 62500 3.1	47.0 40200 1.34 7.30 42000 2.35	9.61 27.82 5.63 20.65 32.80 24.19	Uses of imbalance fertilizer leads to increase in cost of cultivation

Farmers Problem in Utilization: 1.Incorrect method of sample collection **2.**Unaware of timely sample collection **3.**Late in getting result **4.**Difficult in result interpretation **5.** Reluctant to used of Soil test based fertilizer

Location: :Thoubal & Kakching district



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Claser (Cu)		5.					
General Recommendate		4					
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