



Frontline
Demonstration
(FLD) 2020

FLD Summary

Discipline	Crop / Enterprise	Number of technology	No. of demonstrations		% of achievement	Remark
			Target	Achievement		
Agronomy	Rice	1	5	5	100	
	Rice	1	5	5	100	
Plant Protection	Rice	1	8	8	100	
	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 Extension	Oilseed Mustard	1	135	135	100	
	Soil Health Card	1	120	120	100	
	Total	12	80 Demo 255 Farmer	80 Demo 255 Farmer		

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

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

Title: Popularization of Modified SRI 2nd Year

Crop : Rice Var. Tampha phou			No. of Demo. : 5		Area: 1.25 ha			
Technology demonstrated						Location		
<ul style="list-style-type: none"> •Seed rate:-7-10 kg/ha •Organic 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 						<p>Hijam Khunou, Thoubal Okram, Wangjing, Wangoo (2)</p>		
Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/ha)	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
H	L	A						
7.8	6.1	7.2	4.3	40.27	67,000	1,44,000	77,000	2.14



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

No. of Demo: 8

Technology demonstrated

Management of stem borers and plant hoppers with

Voliam flexi

(Chlorantraniliprole 8.8%

W/W + Thiamethoxam

17.5% W/W @ 400ml/ha)



Location

Khangabok, Wabagai , Elang khangpokpi ,Thoubal Ningombam

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

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



Demonstration Yield(Qt/Ha)			Yield of local Check (q/ha)	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
H	L	A						
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



	Decimal	DMS
Latitude	24.592443	24°35'32" N
Longitude	94.037698	94°2'15" E



	Decimal	DMS
Latitude	24.548882	24°32'55" N
Longitude	93.90813	93°54'29" E

Location

Wangjing, Sekmai jin, Leiphrakpam, Wangmataba

Demonstration Yield (Qt/Ha)			Yield of local Check (q/ha)	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
H	L	A						
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,
Heirolk,
Khongjom Sapam,
Charangpat,
Aram**



Demonstration Yield (Qt/Ha)			Yield of local Check (q/ha)	% increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
H	L	A						
7.80	6.50	7.00	6.50	7.14	32000	63000	31000	1.96

Title: Popularization of Fish based integrated farming system (1st Year)

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

Location:

Kakching, Nepra, Wangbal, Thoubal, Lourembam

Feedback

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



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

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

Location: Leiphrakpam, Wabagai, Lilong, Tenth, Wangjing, Khangabok



Enterprise	Technology	No. of farmers/ farm women	No of unit	Performance Parameters/indicator	Data on parameters in relation to technology demonstrated		% Change	Remarks
					Demo	Check		
Popularization of Roselle Jam: Roselle Calyces: 350g (Jam) Sugar brix: 65°	Extract pectin from 1 kg roselle seed pods by boiling for 10 mins with 200ml water ➤ Strain the pods ➤ In the same water add roselle (350g) calyces and boil for 5 mins ➤ Add sugar (650g) and blend it ➤ Boil in a very low flame ➤ Put off the flame and transfer it to sterilized glass jar	10	10	Product Recovery/kg	1.25 litre /Kg	1.00 litre/kg	25	
				Shelf life (months)	6	6		
				BC ratio	2.1	1.3		
				Nutritional content g/100gm Jam (ICAR –NEH, Imphal Centre)				
				Carbohydrate in gm	33.72	30.3		
				Protein in gm	0.18	0.28		
				Sugar content in gm	33.18	23.74		



Feedback

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

Roselle Jam

Technology demonstrated		Performance Parameters/indicator	Data on parameters in relation to technology demonstrated						
Popularization of Assam Mix Rice :70% Green gram: 20% Ground nut: 5% Sesame seed: 5%			Adoption %	80					
		Shelf life	3 months						
		Consumer preference	Like slightly (based on 5 point Hedonic scale)						
No of unit : 5	Location: Wangkhem								
No. of farmers/ farm women: 5		Monthly Boy weight(6 to 12 months) in Kg	Au	Sept	Oct	Nov	Dec	Jan	Feb
Farmers Feedback			g	6.5	6.9	7.4	7.8	8.2	8.7
<ul style="list-style-type: none"> •Cost of production is very less •Raw materials are easily available •Reduces expenditure for buying baby food 		Cost of production per kg	Rs.249/Kg						



Soaked ingrediants



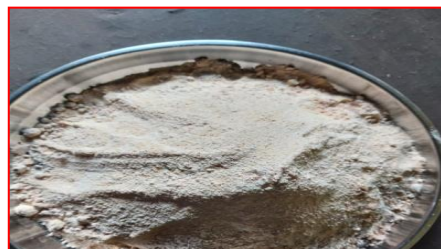
Dry Roasting



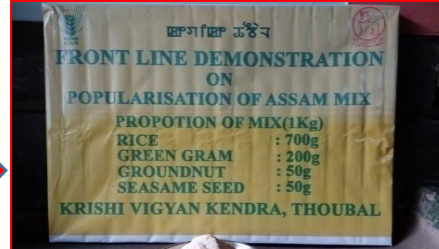
Roasted Ingrediants



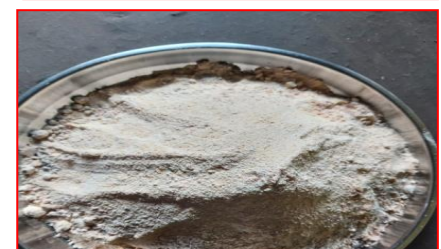
Grinding & Seaving



End Product



Unnamed Road, Poiroukhongjil, Manipur 795138, India
 Latitude 24.6669179° Longitude 94.0225849°
 Local 02:55:53 PM GMT 09:25:53 AM Altitude 741.05 meters
 Sunday, 13-12-2020



Assam Mix

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 on parameters in relation to technology demonstrated		% Change/ increase over local	Remarks
					Demo	Local		
Oilseed Mustard Var. NRCHB-101 under Zero tillage cultivation	varietal suitability, method of cultivation, Farmer acceptability, increase in income and productivity.	135	135	Variety	NRCHB-101	Local Cultivar Yella	-	Moderately accepted by farmers based on crop oil content, yield and locally suitable
				Crop Yield (q/ha)	8.20	7.80	15.21	
				Increase in income (net income in Rs.)	32900	26700	18.84	
				Adoption rate	135	-	85.18	
BCR	1.34	1.11	17.16					

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

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 in relation to technology demonstrated		% Change/ increase over local	Remarks
					Demo	Local		
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)	52.0	47.0	9.61	Uses of imbalance fertilizer leads to increase in cost of cultivation
				Increase in income (net income in Rs.)	55700	40200	27.82	
				BCR	1.42	1.34	5.63	
				Rabi: Field Pea Crop Yield (q/ha) (Grain)	9.20	7.30	20.65	
				Increase in income (net income in Rs.)	62500	42000	32.80	
				BCR	3.1	2.35	24.19	

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



Data Collection

Soil Health Card