Frontline Demonstration (FLD) 2022



Summary on Frontline Demonstration (FLD) 2022



Discipline	Crop / Enterprise	Number of	No. of den	nonstrations	% of	Remark
		technology	Target	Achievement	achievement	
Agronomy	Field Pea	1	8	8	100	
	Maize with Soybean	1	7	7	100	
Horticulture	Tomato	1	8	8	100	
	French bean	1	8	8	100	
Plant Protection	Oyester Mushroom	1	10	10	100	
	Rice	1	10	10	100	
PBG	Mustard (Oilseed)	1	10	10	100	
	Rice	1	10	10	100	
Fisheries	Common Carp	1	7	7	100	
	Climbing perch	1	10	10	100	
Home Science	Water melon rind candy	1	10	10	100	
	Pineapple	1	10	10	100	
Agril. Extension	Impact assessment	1	120 Farmers	120 Farmers	100	
	Impact assessment	1	130 Farmers	130 Farmers	100	2
	Total	14				





Discipline -Agronomy FLD-1 Improved cultivation of Field pea Var. HFP-715 (1st year)

Crop	Technology demonstrated	Demonstration Yield(Qt/Ha)			Yield of local Check (q/ha)		Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
		Н	L	Α						
Field Pea	Variety – HFP-715 Seed rate – 80kg/ha Seed treatment – Carbendazim @3gm/kg seed Spacing – 30cm x 10 cm Weed management – Pendimethalin @ 3 litre/ha at 1 DAS Fertilizer dose – 20:40: 30 kg NPK/ha as basal dose	10.58	7.80	9.2 3	8.75	5.49	38000	73841	35840	1.94

atitude 24.651663° Longitude 94.088553°



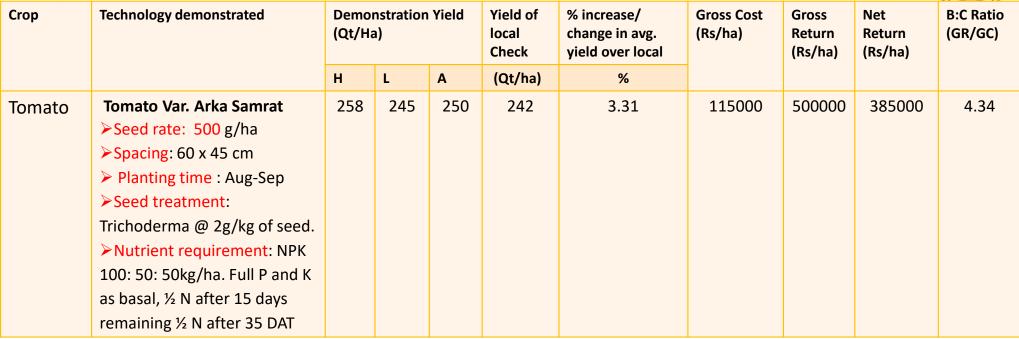
Discipline : Agronomy FLD - 2 Intercropping of maize with soybean (1st Year)



Crop	Technology	Demo	nstration Yie	eld(Qt/	Ha)	Land	Gross	Gross	Net	B:C Ratio	
	demonstrated	Maize		Soyab	ean	Equivalen t Ratio	Cost (Rs/ha)	Return (Rs/ha)	Return (Rs/ha)	(GR/GC)	
		Sole	Intercrop	Sole	Intercrop		(,)	(,,	(,		
Maize with	Maize: HQPM-5	22.5	17.4	10.2	6.4	1.41	45000	105700	60700	2.35	
Soybean	Seed rate:15kg/ha										
	Spacing: 90cmx 25 cm	Remar	sole would	need to be							
	Soybean: VL Soys 63	<u>Remarks</u> : An LER of 1.41 indicates that the area of planted to monoculture/sole would 41% greater than the area of planted to intercrop for the two crops to produce the sam yields.									
	Seed rate:15kg/ha	R									
	Spacing: 90 cm x 25 cm	20									
	Fertilizer dose:			क मी का उँ सेव		VIAN			ST AT ST 2747 FRONTLINE DEMONSTRATION	A A B	
	80:30:60 kg NPK/ha 1/2 N, full P & K as			FRONTLINE DEMONSTRATIO CON ROPPING OF MAIZE WITH S Date Spacing 100 cm	NN SOY/BEAN				TERCROPPING OF MAIZE WITH SOYABEAN rop : Maize Spacing : 100 cm x 30 cm Spacing : 40 cm x 10 cm		
	basal, 1/4 N at knee	622	Name of Location	oyabean Spacing : 40 cm In 1: 2 ratio the Farmer : Th. Bimola Devi : Heirok	x 10 cm				In 1: 2 ratio ame of the Farmer : Ph. Thoiba Singh ocation : Hijam Khunou KRISHI VIGYAN KENDRA, THOUBAL		
	high stage , 1/4 N	247				A BEAL			2-11 (122)		
	Taselling stage	the second s	k, Manipu +CPF, Hein .568751°		a nipur 79514	8, India		ekmai, Manip khongshang Rd, In 19, India 29 39°	o ur, India ngourok Khunou, S	ikhong Sekmai,	

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Discipline : Horticulture FLD-1-Popularization of Tomato Var. Arka Rashak (1st Year)







Discipline-Horticulture FLD 2- Popularization of French bean Var. Arka



Crop	Technology demonstrated	Demo Yield (Qt/H		ion	Yield of local Check	% increase/ change in avg. yield over local	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
		н	L	Α	(Qt/ha)	%				
French bean	Seed rate: 60kg/ha	45	32	40	34	17.65	85000	180000	95000	2.11
var.	Spacing: 45 x 15 cm									
Arka	Sowing time :Aug- Sep									
Arjun	Seed treatment: Trichoderma @									
	2g/kg of seed.									
	► Nutrient requirement: NPK: 20: 30:									
	20kg/ha as basal dose.	E-JOINT CORDING		e - 1967		10 00.00 - 100.00 - 10 10.000				
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DISCIPLINE: PLANT BREEDING & GENETICS

Сгор	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	Gross Gross Cost Return (Rs/ha) (Rs/ha)		Net Return (Rs/ha)	B:C Ratio (GR/GC)
		Н	L	Α	(Qt/ha)	%				
Mustard (<i>Brassica</i> <i>Junceae</i>)	 Tittle: ➤ Seed Rate: 12 kg/ha ➤ Fertilizer Application : NPK @ 60:30:30 Kg/ha(½ N,full P and K as basal dose, ½ N at flowering stage) ➤ Plant Protection : As and when required 	9.5	9	9.4	8.4	10.63	30000	61000	31000	2.03
	Thoubal, Manipur, India Unuamed Read, Manipur 795149, Ind Lat 24.685193" Loss 94 0921385	e or us care			bal, Manipur, India ned Road, Manipur 795149, In .657848° 44.097037°	e d'a kue chera	Nigeria JVWW+ Lat 24.6	m Huidrom, Manipur, India 642, Yumnam Huidrom, Manipur 46544° 885461°	295009, India	29



Discipline: Plant Breeding & Genetics FLD -2 Seed production of Rice Var. RC Maniphou-12 (1st Year)



Сгор	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
		н	L	А	(Qt/ha)	%				
Rice Var RC Maniph ou-12	 Seed rate : 60 kg /ha (Transplanted- one seedlings per hill and transplanted at 24 DAS) Seed treatment : Trichoderma viride @ 4 gm/kg seed Spacing: (20 X 10) cm Isolation distance: 3m Fertilizers application : 	44	40	43.5	37.15	17.06	20920	52920	32000	2.5
	NPK @60:40:30 kg/ha, ½ N,full P and 2/3 K as basal, ¼ N at 25-30 DAT and ¼ N + 1/3 K at panicle initiation stage ➤Roguing : 2 times (Vegetative and ripening stage)			3° 73°	rou, Khangabok, Manipur	Name Name	Antipur, India Paul Rd, Part I, Shanifou, Khangabok, Manipu	pam 👘	Thongam, Manipur, India Cys24HPD, Kakchig Klunou Lamkt 79510, Indi Lar 2440082* Larg 818007806* La(09)221154 AM	al Read, Thongam,



Discipline: Plant protection

FLD-1 Popularization of Voliam Flexi in mgmt. of Stem borers & Plant hoppers in rice (1st Year)



Crop	Technology demonstrated	Area (ha)	No. Of demonstrat ions	parameter	parameters/ indicators r		Data on parameters in relation to technology demonstrated		Farmer reaction
						Demo	Local		
Rice	Popularization of Voliam Flexi (Chlorantraniliprole	2.5	10	30 DAT (days after	Hopper	4	5	9.75%	The technology demonstrated is
	8.8% + Thiamethoxam			treatment)	Stem Borer	6	8		effective for
	17.5% W/W) in mgmt.			60 DAT	Hopper	6	10		management of
	of Stem borers & Plant hoppers in rice			(days after treatment)	Stem Borer	8	12		hoppers and borers,
				B:C Ratio		1.25	1.13		resulting in
				Yield (tonnes	s/ha)	4.50	4.10		higher yield.





Discipline: Plant Protection

FLD-1. Popularization of Oyster mushroom Var. Elm (*Hypsizygous ulmarius*)- (2nd Year)



Enterprise	Variety/ Breed/ Species/ others	No. Of farmers	No. Of Units	Performance parameters/ indicators		parameters in to technology trated	% Change/ increase over local	Remarks
					Demo	Local		
(Mushroom)	Elm (Hypsizygous ulmarius)	5	5	Yield per bag (kg)	1.89	1.60	18.12%	-
				B:C Ratio	3.89	3.29		
				Duration of mycelium run	22	27		
				Pin formation	28	31		





Discipline Fisheries FLD-1. Popularization of paddy cum fish culture (1st Year)



Enterprise (Pl. give name of	Breed	No. Of farmers	Fisherie s (Units)		formance parameters/ icators			% Change/ increase	Remarks
livestock/ fishery						demonstrated		over local	
enterprise)						Demo	Local		
Fish (Common	Fish	7	7	i.	Final weight gain (g)	150g	-		
carp)	(Common carp)			ii.	Fish Yield (Kg/ha) kg	428	-	18.35	
				iii.	Paddy Yield (q/ha)	32.2	35.0		
				iv.	B:C ratio	1.58	1.29		











Discipline Fisheries

FLD-2. Popularization of grow out monoculture of fresh water climbing perch



Enterprise (Pl. give name of livestock/ fishery enterprise)	Breed	No. Of farme rs	Fisheries (Units)	para	formance ameters/ cators	Results on in relation technology demonstra	/	% Change/ increase over local
Fish- Anabas testudineus	Fish- Anabas testudine us	10	10	i. ii. iii.	Avg. final weight gain (g) Fish Yield (Kg/ha) B:C ratio :	230 g 4875 kg 3.23	190g 3925 kg 2.85	24.20





Ange area	Discipline : H Title: Popularisation			FLD 1. nd candy (2 nd year)				
Enterprise	Technology	No. of farmers/	No of unit	Performance Parameters/	Data on paramete to technology den	% Change		
		farm women		indicator	Demo	Check		
Popularisation of water melon		10	10	i) Product recovery/kg	700g	No farmer practice	NA	
rind candy	 Cut into cuboids (4.5 cm x 1cm) with 1- 15 cm thickness Blanched in boiling water for 5 mins. 			ii) Shelf life (months)	6			
	 Addition of 100gm sugar directly with 100 gm blanched rind. Raised the sugar syrup to 10 brix & keep overnight 			iii) Acceptibility (Hedonic Scale)	Like moderately (Hedonic Scale5)			
	 Repeat process till 70 brix Rinse with boiling water Dry/dehydrate candy (sundry for 2 days) 			iv) B:C ratio	2.5			











Discipline : Home Science FLD 2.

Title: Osmotic dehydration of pineapple (1st year)



Enterprise	Technology	No. of farmers/ farm women	No of unit	Performance Parameters/ indicator	Data on parameters in relation to technology demonstrated		% Change
Osmotio	Nuching and grading Dealing of		10	i) Droduct recovery/kg	Demo 700a	Check	16.6
Osmotic dehydration of pineapple (1 st	 Washing and grading , Peeling of fruit and preparation of fruit pieces 	10	10	i) Product recovery/kg	700g	600g	16.6
year)	 Potassium meta bisulphite pre treatment @ 1.5gm/kg for 8h 			ii) Shelf life (months)	6	5	
	 before osmosis. Dipping in sugar syrup(60) degree brix sugar syrup concentration for 24 hours 	-		iii) Acceptibility (Hedonic Scale)	Like moderately (Hedonic Scale5)	Like moderately (Hedonic Scale5)	
	 Draining and Drying (sundry for 2 days)) 			iv) B:C ratio	2.7	1.7	











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Discipline : Agricultural
ExtensionFLD 1. Title: Impact of NARI (Nutri-Sensitive Agricultural Resources &
Innovations) in enhancement of Farmers' livelihood and Nutritional security.
(1st year)



Enterprise	Technology (give details)	No. Of farmers/ Farm Women	: year) No. Of Units/ Item etc.	Performance parameters/ indicators	Results onparameters inrelation totechnologydemonstratedDemoLocal		% Change/ increase over local	Remarks
Impact of NARI (Nutri- Sensitive Agricultural Resources & Innovations) in enhancement of Farmers' livelihood and Nutritional security	 On-farm availability Diversity (own) Safety of food Nutritional knowledge Intervention (Investment in agriculture) 	130	130	Increase in income (net income in Rs.) Nutritional status of farm family • On-farm availability • Diversity (own) • Safety of food • Nutritional knowledge • Intervention (Investment in agriculture) Adoption rate	36250.00 60.00% 44.61% 69.23% 73.84% 73.84% 61.53%	28600.00 35.84% 26.15% 52.30% 63.07% 35.38%	26.74 69.56 70.58 32.35 17.07 104.34 48.14	Objectives under study are achieved and adoption % increased by 48.14.

Location: :Thoubal & Kakching district

Farmers Problem in adoption: 1. Lack of awareness 2. Lack of enough land for diverse crops 3. 4. Unavailability of Quality seed 5. Low income for intervention





Discipline : AgriculturalFLD 2. Title: Impact on Participatory rice seed Production of RC ManiphouExtension13 under DFI Villages in Thoubal district (1st year)

ICAR	-								
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		Given Change/ Change/ increase over local	Remarks	Kairembikhok, Manibur, India
					Demo	Local			J335+992, Awang Leikai, Kairembikhok, Manipur 795148, India
Impact on Participatory rice seed Production of RC Maniphou 13 under DFI Villages in Thoubal district (1 st year)	Impact of Rice seed Production on income enhancement	120	120	Kharif: Paddy RC Maniphou -13 Crop Yield (q/ha) Increase in income (net income in Rs.) Adoption rate:	RC Maniphou -13 (Seed) 64 97500.00 72.00%	RC Manipho u -13 (Grain) 57 67244.00	12.28%		
				BCR	2.03	1.89	30.45%		
				y of fertilizers 2 . P tensive 5. Lack of			cation: :Th kching dist		Lourembam, Manipur, India J3VF+3HJ, Lourembam, Manipur 795149, India Lat 24.6432288° Long 94.07200505° 16/04/22 02:06 PM