



**Frontline Demonstration
(FLD) 2021**



Summary on Frontline Demonstration (FLD)



Discipline	Crop / Enterprise	Number of technology	No. of demonstrations		% of achievement	Remark
			Target	Achievement		
Agronomy	Rice	1	5	5	100	
	Lentil	1	10	10	100	
Horticulture	Potato	1	5	5	100	
Plant Protection	Oyester Mushroom	1	5	5	100	
PBG	Mustard	1	6	6	100	
Fisheries	Fish based Integrated Farming System	1	10	10	100	
	Fish (Silver barb)	1	10	10	100	
Home Science	Roselle Jam	1	10	10	100	
	Chow Chow Bori	1	10	10	100	
	Watermelon Rind candy	1	10	3	30	due to covid, could not meet farmer in harvesting time
	Total	10	81	74		

FRONT LINE DEMONSTRATION

AGRONOMY(2nd Year)

Crop	Technology demonstrated	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						
Rice	Popularization of Integrated Crop Management in rice (2 nd year)	70	62	68	57.50	18.20	80000	136000	56000	1.7
Lentil	Popularization of Foliar Nutrition of lentil Var. IPL 316 (2 nd Year)	10	9.6	12.6	8.7	12.6	32000	78400	46400	2.45



FRONT LINE DEMONSTRATION

HORTICULTURE (1st Year)

Crop	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)
		H	L	A	(Qt/ha)	%				
Potato	Popularization of potato Var. Kufri Kanchan	145	120	132	125	5.6	19000	264000	74000	1.38



FRONT LINE DEMONSTRATION PLANT BREEDING AND GENETICS (1st Year)

Crop	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)
		H	L	A	(Qt/ha)	%				
Mustard	Popularization of mustard Var. NRCHB-101 under Zero Tillage Condition	9.5	9	9.4	8.4	10.63	30000	61000	31000	2.03



Discipline: Plant Protection **FLD-1.** Popularization of Oyster mushroom Var. Elm (*Hypsizygous ulmarius*)-
1st Year

Enterprise	Variety/ Breed/ Species/ others	No. Of farmers	No. Of Units	Performance parameters/ indicators	Data on parameters in relation to technology demonstrated		% Change/ increase over local	Remarks
					Demo	Local		
(Mushroom)	Elm (<i>Hypsizygous ulmarius</i>)-	5	5	Yield per bag (kg)	1.86	1.6	31.25	
				B:C Ratio	3.83	3.26		
				Duration of mycelium run	21	26		
				Pin formation	27	30		



Discipline Fisheries FLD-1. Popularization of Fish based integrated farming system (2nd Year)

Enterprise (Pl. give name of livestock/ fishery enterprise)	Breed	No. Of farmers	Fisheries (Units)	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% Change/ increase over local	Remarks
					Demo	Local		
Fish based integrated farming system (Fish + Duck + Vegetable crops)	Fish @ 8000 fingerlings per ha Khaki campbell @ 250/ha Sesonal veg crops	10	10 units (5ha)	Fish yield (kg/ha)	3620	2380	52.10	
				Duck yield (kg)	255	-		
				Horticulture yield(kg)	365	-		
				Net return(Rs./ha)	5,96,150	2,81,800		
				B.C ratio	2.58	1.8		



Discipline Fisheries FLD-2. Popularization of Silver barb (*Puntius gonionotus*) in feed based seasonal carp polyculture pond system (1st Year)

Enterprise (Pl. give name of livestock/ fishery enterprise)	Breed	No. Of farmers	Fisheries (Units)	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% Change/ increase over local	Remarks
					Demo	Local		
Fish/ carp polyculture system	Silver barb	10	10 units (2.5ha)	Avg. Wt. gain of :			32.9	
				i) Catla	680 g	580 g		
				ii) Grass carp	750 g	780 g		
				iii) Common carp	650 g	600 g		
				iv) Silver barb	450 g	-		
				Survivability %	90 %	90 %		
				Yield (kg/ha)	3790	2850		
Net return	561200	361850						
B.C ratio	2.8	2.23						





Discipline : Home Science FLD 1.
Title: Popularization of Roselle Jam (2nd Year)



Enterprise	Technology	No. of farmers/ farm women	No of unit	Performance Parameters/indicator	Data on parameters in relation to technology demonstrated		% Change
					Demo	Check (Sugar brix: 30°)	
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)	4	2	
				BC ratio	2.1	1.3	
				Nutritional content g/100gm Jam (ICAR –NEH, Imphal Centre)			
				Carbohydrate (g)	33.72	30.3	
				Protein (g)	0.18	0.28	
				Sugar content (g)	33.18	23.74	





Discipline : Home Science FLD 2.
Title: Popularization of chow chow bori (2nd Year)



Enterprise	Technology	No. of farmers/ farm women	No of unit	Performance Parameters/ indicator	Data on parameters in relation to technology demonstrated		% Change
					Demo	Check	
Popularization of Chow chow bori:	<ul style="list-style-type: none"> ➤ Blackgram 600gm ➤ Chow chow- 400 gm treated with 1.5g/kg KMS ➤ Soak blackgram for 12 hrs, wash & drain the excess water ➤ Adding spices (Jeera, Hing, Chinese chives) 	10	10	Product Recovery/kg	370 /Kg	350/kg	20
				Shelf life (months)	6	4	
				BC ratio	2.2	1.8	
				Nutritional content g/100gm Jam (ICAR –NEH, Imphal Centre)			
				Carbohydrate (g)	55.30	65.64	
				Protein (g)	17.76	18.73	
Fat (g)	0.8	0.8					





Discipline : Home Science

FLD 3.

Title: Economic utilisation of value added products of Water melon rind 1st Year)



Enterprise - Popularization of Water Melon Rind candy

Technology demonstrated

- Rind of water melon
- Peeled with stainless steel knife
- Cut into cuboids (4.5 cm x 1cm) with 1-15 cm thickness
- Blanched in boiling water for 5 mins.
- Addition of 100gm sugar directly with 100 gm blanched rind.
- Raised the sugar syrup to 10° brix & keep overnight
- Repeat process till 70° brix
- Rinse with boiling water and drying for 2 days

No. of demonstration -3

Performance Parameters/indicator	Data on parameters in relation to technology demonstrated	
	Demo	Check
Product Recovery/kg	700g /Kg	No Farmer practice, thrown as wastage
Shelf life (months)	3	
BC ratio	2.5	

