FLDs (Discipline–Wise Summary) for 2023

Discipline	Crop/enterprise	No. of Technology	No. of demos proposed	Area (ha) covered	No. of Beneficiaries
PBG	Paddy	1	12	3 ha	12
	Rapeseed	1	12	3 ha	12
	Fieldpea	1	12	-	-
Fishery	Amur carp	1	10	1 ha	10
	Tilapia	1	10	1 ha	10
	Pengba	1	10	1 ha	10
Plant protection	Chilli	1	8	2 ha	8
	Cabbage	1	4	-	-
	Maize	1	4	2 ha	4
Horticulture	Broadbean	1	4	1ha	4
	Tomato	1	6	2ha	6
	Frenchbean	1	4	1ha	4
Animal science	Duck	1	10	10units	10
	Piggery	1	10	10units	10
	Piggery	1	10	-	-
	Piggery	1	5	5 units	5
Agril Extension	Paddy	1	-	40 respondents	-
Agro-forestry	Tree bean, citrus, hollock, Pulse crop	1	2	1 ha	2
Home Science	Kiwi	1	10	10 units	10
	Pineapple	1	10	10 units	10
Farm Manager	Beejamrit, Jeevamrut	1	5	0.5 ha	5
Total		17 (20)	132 (163)	19.5 ha, 45 units & 40 respondents	132

FLD PBG: Popularisation of seed production technology of paddy var. RC Maniphou 12

Area= 3 ha, No. of Demo.= 12. Village- Chinikon, Parengba

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
Var. RC Maniphou 12,Duration = 90-105 days, Potential yield=40-50 q/ha,Seed rate @60 kg/ha, NPK @ 60:40:30 kg/ha, Isolation distance- 3m, Roughing as per requirement (Tillering, flowering & before harvesting)	42.7	37.6	**38.7**	**31.6**	**22.5**

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
45085	**85140**	**40055**	**1.88:1**

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
40770	69520	28750	**1.7:1**

FLD PBG : Popularization of late sown rapeseed var. TS67 in rice fallow

Area= 3 ha, No. of Demo.= 12. Village- Singai Namdai, Toribari

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
xx- Var. TS 67 - Duration – 95-105 days, - Potential yield= 7-10q/ha	8.32	7.81	8.02	6.33	27

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
31588	56140	24552	1.77:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
28988	44310	15322	1.53:1

FLD Horticulture : Popularization of Broadbean var. Pusa Udit

Area= 1ha, No. of Demo.= 4 , Village- Chawangkining, New Sailem

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
✓ Var.- Pusa Udit ✓ Duration – 150 days ✓ Yield potential (Green pod)- 175q/ha	113	111	112	82	32.5

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
57400	168000	110600	2.92:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
54650	123000	68350	2.25:1

FLD Horticulture: Popularization of Tomato Var. Arka Abhed

Area= 1 ha, No. of Demo.= 6, Village- Moirangpan & Molhoi Village

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield
	H	L	A	q/ha)	%
Var.- Arka Abhed , Multiple disease resistance to Tomato Leaf Curl Disease, Bacterial wilt, Early blight and Late blight, Duration- 140-150 days Yield Potential -700-750q/ha. Fruit size - 90-100 gm	260.6	258.2	**259.4**	**196.3**	**32.1**

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
85400	300190	214790	**3.51:1**

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
80900	230850	149950	**2.85:1**

FLD Horticulture: Popularization of Frenchbean var. Arka Anoop

Area= 1 ha, No. of Demo.= 4, Village- Nungang, Katomei

Technology demonstrated	Demonstration Yield (kg/unit)			Yield of local Check	% increase in yield
	H	L	A	(q/ha)	%
Var.- Arka Anoop, Combined resistance to rust and bacterial blight Duration 70-75 days Yield Potential- 200q/ha.	145	134	139.5	101.2	37.8

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
59450	167400	107950	2.81:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
49500	112080	62580	2.26:1




FLD PP: Integrated Pest Management of thrips and mite in Chilli

Area=2ha, No. of Demo.= 8. Village- Nungsai Chiru, Parengba

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield	Percent pest incidence	
	H	L	A	q/ha)	%	Demo	Local
i. Use of yellow sticky trap@20 traps/acres ii. Appln. of beauveria bassiana @2g/L,twice at 10 days interval, iii. Appln. of neem oil 0.3% iv. Applin. of imidachlorprid@0.3 ml/L	49.8	46.2	48	37	29.7	11.4%	28.8%

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
149016	520000	370984	3.48:1

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
142050	350000	207950	2.46:1

FLD PP: IPM of FAW on Maize

Area= 2 ha, No. of Demo.= 8, Village- Kalaphar, Karong, Khongnem

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase in yield	Percent pest incidence	
	H	L	A	q/ha)	%	Demo	check
i. Seed treatment with Thiomethoxam @ 4ml/kg seed ii. Use of microbial pesticide *Metarhizium anisopliae* talc formulation @ 5g/l whorl application at 15-25 DAP, twice at 10 days interval iii. Application of Neem oil 1500 ppm @ 15ml/l at early whorl to late whorl stage	48.2	45.3	**46.75**	**36**	**29.86**	**10.4%**	**30%**

Economics of demonstration (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
44540	82800	38260	**1.86:1**

Economics of check (Rs./ha)			
Gross Cost	Gross Return	Net Return	B:C Ratio
40300	67600	27300	**1.67:1**

FLD Animal Sc. : Popularization of Khaki Campbell under backyard rearing system

No. of Units.= 10, No. of demo= 10, Village- T. Khullen, Silent and Happyland

Technology demonstrated	Nos. of animals/ poultry birds etc.	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% change
			Demo	Local	
Khaki Campbell	250 (@ 25 ducks per unit)	Av. Live b. wt. in gm. at 8 wks.	812 gm	545gm	23.81%
		Av. Live b. wt. in gm. at 20 wks.	1355 gm	1011 gm	

Economics of demonstration (Rs./unit)			
Gross Cost	Gross Return	Net Return	B:C Ratio
8110	19355	11245	2.38:1

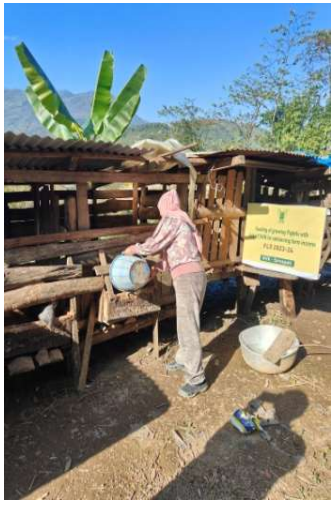
Economics of check (Rs./unit)			
Gross Cost	Gross Return	Net Return	B:C Ratio
7950	15180	7230	1.9:1

FLD Animal Sc. : Feeding of growing piglets with AAUVETMIN for enhancing farm income

No. of Units= 10, No. of demo= 10, Village- Joyland, Karong and Wainem

<table>
<tr><th>Technology demonstrated</th><th>Nos. of animals/ poultry birds etc.</th><th>Performance parameters/ indicators</th><th colspan="2">Results on parameters in relation to technology demonstrated</th><th>% change</th></tr>
<tr><th></th><th></th><th></th><th>Demo</th><th>Check</th><th></th></tr>
<tr><td>AAUVETMIN (@ 20 gm per pig per day)</td><td>76 piglets (from 10 units)</td><td>i. Av. l.b.wt. (in Kg)

ii. Mortality %</td><td>
<table>
<tr><td>Month</td><td>2</td><td>3</td></tr>
<tr><td>Av.l.b.wt. (kg)</td><td>8.63</td><td>17.23</td></tr>
</table>
11.54%
</td><td>
<table>
<tr><td>Month</td><td>2</td><td>3</td></tr>
<tr><td>Av.l.b.wt. (kg)</td><td>8.11</td><td>13.56</td></tr>
</table>
16.46%
</td><td>30% reduction in mortality rate</td></tr>
</table>



FLD Animal Sc. : Deworming of Piglets for increasing income of farmwomen

No. of Units= 5, No. of demo= 5, Village- Phaibung & Wainem villages

Technology demonstrated	Nos. of animals/poultry birds etc.	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated		% change
			Demo	Local	
Albendazole @ 5-10 mg/Kg.b.wt. per oral	42 piglets (from 5 units)	i.Mortality % ii. Live body weight	13.21 Month 2 3 Av.l.b.wt. (kg) 9.23 19.13	18.12 Month 2 3 Av.l.b.wt. (kg) 9.45 15.72	27% reducetion in mortality rate

FLD Fisheries: Popularization of low cost happa breeding of Amur carp

No. of Units= 10, No. of demo= 10, Village- Kalaphar, liyai khullen, Maram

Technology demonstrated	Performance parameters	Results on parameters in relation to technology demonstrated
Species: Amur carp Hormone: Ovaprim/Ovatide/ Ovasis Dose of hormone -female :0.3ml-0.5ml/kg body weight Male: 0.2-0.3ml/kg body weight Sex ratio (F:M)-1:2 Haappa size LxBxD=3mx1mx2m	**i. Hatching percentage**	**70%**
	ii. Survival rate	40%

Economics of demonstration (Rs./unit)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
9260	35000	25740	2.7:1

FLD Fisheries : Popularization of monosex Tilapia under monoculture system

Area= 1 ha, No. of demo= 10, Village- Goungaiphai, Kalapahar, Karong

Technology demonstrated	Performance parameters	Results on parameters in relation to technology demonstrated	
		Demo	Check
Stocking density:20,000/ ha Feeding rate: 3-5% body weight Feed : Pellet feed Culture period : 6 month	i. Fish growth rate	**Stocking : 5 gm & 2 cm** **Avg. wt. & length at 3 months** = 180.6 gm & 8.5 cm **Avg. wt. & length at 6 months=**460 gm & 14.8 cm	**Stocking : 5 gm & 3.2 cm** **Avg. wt. & length at 3 months** = 150.6gm & 8 cm **Avg. wt. & length at 6 months=**320 gm & 12.9 cm
	i. Yield	3180 kg/ha	2720 kg/ha

Economics of demonstration (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
3,14000	636000	**322000**	**2.02:1**

Economics of check (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
3,10,000	544000	234000	1.74:1

FLD Fisheries : Popularization of Pengba in composite fish culture

Area= 1 ha, No. of demo= 10, Village- L. Champhai, L. Phaijang, Keithelmanbi

Technology demonstrated	Performance parameters/ indicators	Results on parameters in relation to technology demonstrated	% change
		Demo	
Stocking of IMC, Exotic carp & pengba @ 8000 nos./ha,: catla 20%, silver carp 10%, Rohu 30%, Pengba 10%, Mrigal 15%, C. carp 15%	i.Fish growth at monthly interval	**At 4 months**: Av. Weight: = 120 gm, Av. Length= 6.2 cm **At 8 months**: Av. Weight: = 162 gm, Av. Length= 8.6 cm	-
	ii. Yield	Ongoing	




FLD Home Sc. : Promotion of osmotic dehydration of Pineapple for preparation of candy

No. of Units = 10, No. of demo= 10, Village- Kangchup Geljang, Kaithelmanbi

Technology demonstrated	Performance parameters/ indicators	Results on parameters		% change
		Demo	Check	
✓ Washing and grading, peeling of fruit and preparation of fruit pieces ✓ Potassium meta bisulphide pre-treatment @1.5gm/kg for 8 hr before osmosis ✓ Dipping in sugar syrup (60) degree brix sugar syrup concentration for 24 hrs. ✓ Draining and drying (sundry for 2 days)	Product recovery	42 %	42 %	
	Shelf life (months)	5.7 months	3.8 months	
	Acceptability (hedonic scale)	8.5	5.7	49.12 %
	BCR	3.2:1	2.13:1	

FLD Home Sc. : Popularization of Value addition of Kiwi fruit (Candy and Jam)

No. of Units = 10, No. of demo= 10, Village- Saikul, Hengbung

Technology demonstrated	Performance parameters/ indicators	Results on parameters		% change
		Demo	Check	
✓ Candy: Osmotic dehydration using sugar syrup of slice kiwi at 60 degree brix ✓ Tray drying of Osmo-dried slices ✓ Jam: kiwi fruit: citric acid: sugar (1:0.08:1)	Shelf Life i.Candy ii. Jam	 5.6 months 8 months	 3.7 months 5.6 months	
	Acceptability (hedonic scale)	8.6	5.5	56.36%
	BCR	3.33:1	2.24:1	

FLD Agroforestry : Introduction of MPTS with existing farming system

Area= 1 ha, No. of demo= 2, Village- Besho

Technology demonstrated	Performance parameters/ indicators	Results on parameters			
		Tree bean	Citrus	Terminalia	Blackgram
Tree bean – 8mx8m as main crop **Terminalia** as Boundary planting **Citrus** as filler crop **Pulse crop-** blackgram as interspaced crop	Tree height	**3-3.5ft**	**1.5-2ft**	**1.7-2.1ft**	**-**
	Crop yield (blackgram)	-	-	-	**7.8 q/ha**

Economics of blackgram (Rs./ha)			
Gross Cost	**Gross Return**	**Net Return**	**B:C Ratio**
31160	54600	23440	1.75:1

FLD Farm Management : Promotion of Beejamrit and Jeevamrut on cabbage in natural farming

No. of Units = 10, No. of demo= 10, Village- Toribari, Purul

Technology demonstrated	Crop	Performance parameters	Results on parameters		% change
			Demo	Check	
Beejamrit : For 100 kg seed use water 20 liters, Use cow urine 250 ml for one liter of water, Use Cow dung 250 grams for one liter of water, Use Lime 2.5 g per liter of water, Use soil-like dikes or clay bundles, which do not have any stone **Jeevamrut:** Water- 200 Litres, Cow Dung - 10 Kilograms, Cow Urine - 10 Litres, Pulse Flour - 2 Kilograms, Jaggery- 2 Kilograms, Soil - A handful **-Soil application-**Take 1l of plain water and add 50ml of jevvamrut and spray over the soil. Repeat every 15 days **-Foliar application-** Take 1l of plain water and add 25ml of jeevamrut spray over leaves. Repeat for every 10 dayts	Cabbage	Disease incidence (root rot)	22%	32%	
		Yield	165 q/ ha	144 q/ha	**14.6**
		Soil pH	Before-5.3 After- 6.2	Before- 5.3 After- 5.8