

# Front Line Demonstration 2019-20

**KRISHI VIGYAN KENDRA**  
**Siaha District, Mizoram -796901**



## FLDs (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept Demonstrated	No. of demonstrations		% of achievement	Reasons for shortfall, if any
			Target	Achievement		
Horticulture	Chilli	1	10	10	100	
	Capsicum	1	10	10	100	
Plant Protection	Okra	1	10	10	100	
	Tomato	1	10	10	100	
AH & Vety	Feeding management	1	5	5	100	
	De-worming in cattle	1	5	5	100	
	Piggery cum fish culture	1	5	5	100	
Agril. Extension	Impact analysis of tomato	1	10	25	220	
	Impact analysis of mango	1	10	10	220	
Home Science	Meal planning	1	10	10	-	
	Dried flower technology	1	20	20	-	
	Mango processing	1	20	20	-	
<b>Total</b>		<b>12</b>	<b>125</b>	<b>140</b>		

## FRONTLINE DEMONSTRATION 1 : HORTICULTURE

### Popularization of Scientific cultivation of Chilli under Jhum condition

(SOT): ICAR-RC (NEH)

#### Technology

- Seed treatment
- Proper spacing
- Log wood bunding
- Recommended dose of fertilizer
- Weedicides
- Intercultural operations

#### Observations recorded

Parameters	Tech	F.P
<b>Plant height</b>	1.8 m	1.1m
Fruit length	3 cm	2 cm
Average fruit weight	3.5g	2 g
Average Yield	9.1 q/ha	7.4 q/ha
Net return	1,70,000/ha	1,10,000
B:C Ratio	2.8	1.8



## FRONTLINE DEMONSTRATION 2 : HORTICULTURE

**Crop:** Capsicum (Arka Harit)

**Tech:** Protected cultivation of Capsicum

**S.O.T- IHR, 2016**



Demonstration Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	GC (Rs / ha)	GR (Rs / ha)	Nt( Rs / ha)	B:C Ratio (GR/GC)
H	L	A						
110	70	90	65	38.40%	3,80,000	9,60,000	5,80,000	2.50
<b>Farmer's Practice</b>					1,37,000	2,70,000	1,33,000	1.90

## FRONTLINE DEMONSTRATION 1 : Plant Protection

**Technology demonstrated:** Management of Bacterial Wilt Disease in Tomato using Streptomycin @

0.2g/lit of water

- S.O.T- ICAR, Barapani, 2010
- No. of Demo : 10
- No. of farmers : 10 Area : 5ha



Demonstration Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	GC (Rs / ha)	GR (Rs / ha)	Net( Rs / ha)	B:C Ratio (GR/GC)
H	L	A						
315	255	285	230	23.91%	3,00,000	9,97,500	6,97,500	3.32
<b>Farmer's Practice</b>					2,90,000	8,05,000	5,15,000	2.77

## FRONTLINE DEMONSTRATION 2 : Plant Protection

• **Technology demonstrated:** IDM on Yellow Vein Mosaic Disease in Okra) var. Kashi Pragati & Kashi Pranti

- S.O.T- TNAU, Coimbatore, 2011
- No. of Demo : 10
- No. of farmers : 10
- Area in ha : 5ha



Demonstration Yield (Qt/Ha)			Yield of local	% increase/ change in avg. yield over local	GC (Rs / ha)	GR (Rs / ha)	Nt( Rs / ha)	B:C Ratio (GR/GC)
H	L	A						
71	63	67	53	26.4%	80,000	2,01,000	1,21,000	2.51
<b>Farmer's Practice –</b>					76,000	1,59,000	83,000	2.09

# FRONTLINE DEMONSTRATION 1 : Home Science

## Meal planning on iron rich food for pregnant women to combat Anemia

**SOT:** ICMR, Hyderabad, 2009

**Problem with Severity :** Lack of technical knowledge on personal health care through diet

**No. of trials :** 10

### Technology:

- Maternal food consumption :** ICMR-Maternal Diet Plan were followed. & Meal planning on locally available iron rich food for pregnant women is conducted.
- Maternal weight gain (1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> trimester ):** 4.7kg – 8.5 kg – 10.4kg
- Birth weight of babies :** Avg. 3.4kg
- Improvement in IMR :** No mortality recorded during the trial period

**Farmers' Practice:** Nil

**Remark for recommendation for FLD:** All the 10 selected women gave normal delivery with normal baby birth weight, thus the objectives of the FLD was well accomplished..



## FRONTLINE DEMONSTRATION 3 : HOME SCIENCE

### Preservation techniques of Ginger

S.O.T- CFTRI, Mysore 2015 No. of Farm Women : 10.

**Technology :** Introduction on preservation techniques of ginger as ginger nectar, ginger powder, ginger paste, Ginger pickle, Ginger candy, Ginger squash. (Methods of Prep. of ginger candy: 1kg ginger, 250g sugar Peel & wash ginger, cut it uniformly, mix thoroughly then heat it in a pan and stir till the water dries up. Ginger squash: 1lit ginger juice, 1kg sugar, 0.25ml lemon juice, Boil all the ingredients for 10 mins, stored in a refrigerator, mix with water for serving.

### Performance parameters/ indicators :

- 1) Acceptability
- 2) Productivity
- 3) Record of Income
- 4) Shelf life



**Results:** i) Acceptability : Accepted ii) Income generated : Rs. 350 / kg. iii) Shelf life: 6 months when packed.

## FRONTLINE DEMONSTRATION 3 : Home Science

### Dried flower technology & its value addition

**Major problem diagnosed:** Lack of technical knowledge on drying of wild & exotic flowers

No. of demo : 10

Source Of Technology : IHR, 2015

**Technology :** Scientific technology on drying of wild & exotic flowers to add its value for income generation.

Farmer Practice: Nil

B:C Ratio : 2.3

**Technology:** 1) Quality of the outcome: **Maintains its impregnated color and hardness.** 2) Acceptability : **Accepted** 3) Shelf life : 1 yr Record of income: a) Cost of processing of 1 kg of flowers : **Rs. 300 /-** b) Sales of 1 kg of dried flower : **Rs. 700 /-** c) Net Return: **Rs. 400/-**



## FRONTLINE DEMONSTRATION 1 : Animal Science

### Routine scientific farming practices with special reference to timely deworming

S.O.T- CAU, Selesih 2016  
No. of farmers : 3

**Methodology : Regular deworming at 3 months interval with Albendazole / Fenbendazole : Breed : Indigenous**



Economics	Demo	Check
Gross Cost	19,000	16,000
Gross Return	55,500	36,000
BC Ratio	2.8	2.25

### Results on parameters in relation to technology demonstrated

S.N	Demo	Local
1	1) Increase on milk yield : 0.5 lits / day / animal	NA
2	2) Increase in lactation days : 30 days	NA
3	3) Occurrence of Gastro Intestinal Tract disorders : NAD	Occurrence of GIT disorders : Diarrhea
4	4) General health status : Significantly good and NAD	1)General health status : Occurrence of GIT disorders, susceptibility to diseases due to compromised immune status 2) Prone to skin infections 3)Reduced feed intake resulting in lower production



## FRONTLINE DEMONSTRATION 2 : Animal Science

### Hay making

Problems with severity: **Scarcity of fodder during lean period**  
SOT: CAU, Selesih, 2012 No of farmers : 5 Location : Sihatla

**Technology Details:** Cut fodders are dried under the sun. The process of drying continue for 3 to 4 days. Perfectly dried materials are then be baled and stored for future use



Parameters of Assessment:

- Shelf life : 6 months
- Palatability : good
- Farmers' acceptance : 10 number of farmers adopted the technology

# FRONTLINE DEMONSTRATION 3 : Animal Science

## Integrated farming – Piggery Cum Fish Culture

❑ **SOT** : CAU, Selesih, 2012

❑ **No. of farmers** : 5

❑ **Location** : Tuitlawk & Noaotlah

### Observations :

1. **Fish**: Length of fish at stocking 1cm, stocking rate 400nos./0.06ha, growth per each month from 1<sup>st</sup> to 9<sup>th</sup> month – 3cm (1<sup>st</sup> month) , 5cm, 7cm, 9cm, 11cm, 15cm, 18cm, 20cm, 21cm (9<sup>th</sup> month) from stocking.

2. **Pig**: Monthly avg. body wt. gain of pig 1.5 inch, Age of sexual maturity: 8 months, Gestation period: 116 days, litter size: 7 nos.

**Technology details:** Pond selected for integrated fish culture is drain out. Basal fertilization of the pond is done using cattle dung @ 500 kg / 1000m<sup>2</sup>. Lime is then applied @ 250 kg / ha for correction of pH. The pig sty is constructed at the pond embankment. Diversion pit is made to collect pig excreta and wastes. From the diversion pit the collected materials is then allowed to flow into the pond as and when required





# FRONTLINE DEMONSTRATION : Agricultural Extension

## Impact assessment on nursery raising of mango

**Methodology:** 1) Door to door visit for collection of data

**No. of farmers: 10** Area: 50-70sqft

Observations recorded	
Parameters	Tech
Avg. Cost of production	Rs 5500
Avg. Cost of mango seedlings	Rs 50
Avg . Income from mango seedlings per year	Rs 1,50,000
Profit	Rs. 1,44,500



## Impact analysis on Management of Bacterial wilt disease of Tomato

**Methodology:** 1) Door to door visit for collection of data

**No. of farmers: 25**



Observations recorded	
Parameters	Tech
No. of Demo	10
Avg. Cost of production/ha	Rs 30,000
Net return/ha	Rs. 56,000
Adoption %	65
Feed back	Fairly good

# Farm Activities



THANK YOU ALL

