

# KVK-SENAPATI



## Hengbung, Senapati District, Manipur

Host Institute: Foundation for Environment and Economic Development Services (FHEDS) Estd 2002

## **Annual Action Plan - 2024**







## **Staff Position**

Sl. No.	Name	Designation	Discipline
1.	Dr. Nongmaithem Jyotsna	Senior Scientist and Head	Agronomy
2.	Khangembam Nodiyachand Singh	Subject Matter Specialist	Horticulture
3.	Dr. David Kamei	Subject Matter Specialist	Plant Protection
4.	Dr. Nongthombam Muhindro Singh	Subject Matter Specialist	Vety & A.H.
5.	Deepak Kumar	Subject Matter Specialist	Agri. Extn.
6.	Dr. Telem Ratan Singh	Subject Matter Specialist	Plant Breeding & Genetics
7	Athokpam Brojendro Singh	Programme Assistant	Agro-Forestry
8	Nemnu Hangshing	Programme Assistant	Home Science
9.	Kangjam Homen Singh	Programme Assistant	Farm Manager
10.	Kshetrimayum Ranjit Singh	Office Assistant	-
11.	Mutum Ronel Singh	Stenographer-cum-computer operator	-
12.	Pheiroijam Tomba Singh	Driver	-
13.	Thanginlal Chongloi	Driver cum Mechanic	-
14.	Chungkholam Chongloi	Supporting staff	-
15.	Kamminlal Kipgen	Supporting staff	-

## On Farm Testing (Discipline-Wise Summary) for 2024

Discipline	Crop/enterprise	No. of Techno Concept/ met be		No. of trials proposed	
		Assessed	Refined	Assessment	Refinement
Horticulture	Garden pea	1	-	5	-
	Garlic	1	-	6	-
PBG	Rice	1	-	6	-
	Fingermillet	1	-	6	-
Plant Protection	Maize	1	-	5	-
	Potato	1	-	5	-
Animal Science	Piggery	1	-	6	-
	Poultry	1	-	6	
	Poultry	1	-	6	
Agri. extension	Millets	1	-	50 respondents	-
Total		10		51trials & 50 respondents	

# On Farm Testing (OFT) Horticulture, OFT 1 (2<sup>nd</sup> yr. trial)

Title: Performance of garden pea varieies

#### **Details of Technology**

**Crop: Garden pea** 

TO1: Var. Kashi Ageti

**Duration- 95-100 days, Potential yield = 95-**

105 q/ha

Seed rate – 60 kg/ha.Spacing – 30 cm x 15 cm, Seed treatment with Trichoderma @ 2gm/kg seed, NPK- 20:60:40 as basal dose,

FYM- 5 tonnes/ ha.

TO2: Var.: Arka Priya Mid season variety, Duration- 90 days, Potential yield- 12t/ha, Resistant to powdery mildew and rust TO3 (Check): Var.: Arkel, Duration- 90-100

days, Potential yield- 80-90 q/ha

Problem diagnosis: Low yield of existing variety

#### Parameters of assessment

i. Plant height (cm) at 30, 60

ii. Days of 1<sup>st</sup> germination

iii.No. of branches at 30 DAP

iv. Plant height at 30 DAP and harvesting.

v. No. of pods/plant

vi.No. of seed/pod

vii. Days to 50 % flowering

viii. Days at 1st harvesting

ix.Soil pH,OC,NPK status (Before

& After )

x. Yield/ha

xi. Economics

Area : 1 ha. No. of trials : 5 Location :

Chinikon, Tongoi

Source: IIVR, Varanasi-2015, IIHR, Bangalore - 2016

# On Farm Testing (OFT) Horticulture, OFT-2 (1st yr. trial)

Title: Performance of Garlic varieties

### **Details of Technology**

**Crop: Garlic** 

#### **TO1:**

Var.- Yamuna Safed-5 (G-189)

Duration- 150-160 days

Yield potential- 17-18t/ha.

#### **TO2:**

Var.- Yamuna Safed-3

Duration – 120- 130 days

Yield potential- 17-20 t/ha

#### **TO3 (Farmer Practice):**

Var.- Local cultivar

Dur.- 165-170 days

Yield potential – 12-13t/ha.

**Problem diagnosis:** Low yield of local cultivar

## Parameters of assessment

- i. Days at 1st germination
- ii. Plant height at 30 DAP, 60 DAP & harvesting
- iii.No of Leaves at 30DAP, 60
- iv. No. of cloves/bulb
- v. Days at 1st harvesting
- vi.Soil pH,OC,NPK status (Before & After )
- vii.Yield /ha
- viii.Economics

Area : 1 ha.
No. of trials : 6
Location :
Makhan, Joyland

Source: National Horticultural Research Development Foundation (NHRDF), Nashik 2020, 2012

# On Farm Testing (OFT) PBG, OFT-1 (2nd yr. trial)

Title: Performance assessment of rice varieties

Problem diagnosis: Low yield of existing variety

### **Details of Technology**

**Crop: Rice** 

#### **TO1:**

Var.: RC Maniphou 15, Duration- 125- 130 days, Potential yield = 7.8t/ha

#### **TO2:**

Var.: RC Maniphou 16, Duration- 130-135 days, Potential yield = 7.3t/ha

### **TO3: (Existing variety)**

Var.: RC Maniphou 13, Duration- 125-130 days, Potential yield =7-8 t/ha

#### Parameters of assessment

1.Plant height(cm)

2.No. of effective tillers/hill,

3. Date of panicle initiation,

4. Number of panicles/m2

5. Number of spikelets /panicles

6.Filled grains/panicle

7.Test weight(g)

8.Grain yield(q/ha)

9. Harvest Index (%)

10.Soil pH,OC,NPK status

(Before & After)

11.Economics

Area : 1 ha.
No. of trials : 6
Location :
Wainem, Nungan
g

**Source: ICAR- Manipur Centre- 2021** 

# On Farm Testing (OFT) PBG, OFT-2 (1st yr. trial)

## Title: Performance of Fingermillet varieties

#### **Details of Technology**

**Crop: Fingermillet** 

#### **TO1**:

Var.: VL Mandua 378
Duration- 103-114 days,
Potential yield = 31.3 q/ha
Blast resistant

#### **TO2:**

Var. : VL Mandua 376
Duration- 103-109 days,
Potential yield = 29- 31 q/ha
Moderately resistant to blast

#### **TO3 (Farmer Practice):**

Var. : Nepali Kodo
Duration- 110-120 days,
Potential yield = 15-20 q/ha

Problem diagnosis and severity: Low yield of local cultivar

## Parameters of assessment

i. Plant height (cm)

ii. No. of tillers/plant

iii.No. of earhead/plant

iv.Grains/earhead

v. Soil pH,OC,NPK status

(Before & After )

vi.Test weight(g)

vii. Grain Yield/ha

viii.Economics

Area : 1 ha.

No. of trials : 6

Location

Toribari, Happy

land, Namching

Source: VPKAS, Almora, 2021 & 2018

# On Farm Testing (OFT) PP, OFT-1 (1st yr. trial)

Title: Management of leaf blight (TLB & MLB) disease of maize

**Problem diagnosis:** Leaf blight

#### **Details of Technology**

**Crop: Maize** 

**TO1:** Application of propiconazole and azoxystrobin 0.15%

- 1<sup>st</sup> spray on first appearance of disease followed by another 2-3 spray at 10 days interval

TO2 (Farmer Practice): Application of carbendazim 50 WP @ 2g/l water

# Parameters of assessment

- i. No. of infested plants
- ii. % Infestation
- iii. Average disease controlled %
- iv. % disease incidence
- v. Crop damage %
- vi. Time of disease occurrence
- vii. Yield/ha
- viii. Economics

Area : 1

ha.

No. of trials : 5

Location:

Khongnem thana and Toribari

Source: VPKAS, Almora (2019)

# On Farm Testing (OFT) PP, OFT-2 (2<sup>nd</sup> yr. trial)

Title: IPM of vector transmitted disease of potato

### Problem diagnosis: Leaf curl disease

### Details of Technology

**Crop: Potato** 

#### **TO1:**

- 1. Quality clean certified seeds
- 2. Appln. Dimethoate @ 0.03% or Imidachloprid @ 0.035% along with 1-2 need base appln. of carbofuran 1-1.5 kg a.i./ ha. at 10-15 days interval during initial infestation period
- TO2 (Farmer Practice): Appln. Of chloropyriphos 20 EC @ 2ml/l water

Parameters of assessment

- i. No. of infested plants
- ii. % Infestation
- iii. Average disease
- iv. Per cent disease incidence
- v. Crop damage %
- vi. Time of disease occurrence
- vii. Yield/ha
- viii. Economics

Area: 0.5 ha.

No. of trials :5

Location: Liyai

khunou, Tadubi

Source: ICAR, CPRI, Shimla (2005)

# On Farm Testing (OFT) Animal Science, OFT-1 (1st yr. trial)

Title: Evaluation of low cost diet for growing piglet

Problem diagnosis: High cost of conc. feed

### **Details of Technology**

**Enterprise: Piggery** 

#### **TO1:**

Kitchen waste, locally available leaves and vegetables (60%),conc. feed(40%) and the mixture is boil for 30mins 5% molasses for palatability

#### **TO2** (Farmer practice):

Kitchen waste, locally available leaves and veetables (60%), ricebran(40%) and the mixture is boil for 30mins

Parameters of assessment

- i. Disease incidence
- ii. Av. Live body
  weight at 3, 4, 5 &
  6 months
- iii. Acceptance of technology
- iv. Economics

Unit : 6
No. of trials : 6
Location :
Island village &
Nungsai chiru

Source: ICAR Barapani 2018

# On Farm Testing (OFT) Animal Science, OFT-2 (1st yr. trial)

Title: Comparison of restricted time feeding on performance of broiler chicken

Problem diagnosis: High cost of concentrate feed,
Birds are mostly associated with ascites and
lamness leading to increase in mortality

### **Technology Options**

TO1: 6 hr restriction

**TO2:** Ad libitum feeding (Farmer Practice)

### **Details of Technology**

- > Ad libitum feeding till 10th day after hatch
- Restriction feeding done from 11<sup>th</sup> day till 18<sup>th</sup> day
- Normal feeding continues from 18<sup>th</sup> till 42 days

## Parameters of assessment

- i. Mortality rate
- ii. Survivability % upto 6 weeks
- iii. Average live.b.wt. at  $10^{\rm th}$ ,  $18^{\rm th}$  and  $42^{\rm nd}$  days
- iv. FCR
- v. Economics

Unit : 6
No. of Demo. : 6

No. of farmers: 6

Location

Moirangpan &

**New Salem** 

Source: C.V.Sc. AAU, Khanapara (Guwahati) (2015)

# On Farm Testing (OFT) Animal Science, OFT-1 (1st yr. trial)

Title : Performance of CARI- Nirbheek bird under backyard poultry rearing system

### **Details of Technology**

**Enterprise: Poultry** 

#### **T01:**

**Breed:** CARI Nirbheek

- Disease resistance along with capability of bearing the stress of sub-optimal feeding and management.
- Av. Wt. of male at 20 weeks- 1847 gm
- Av. Wt. of female at 20 weeks- 1350 gm
- Sexual maturity 176 days
- Annual Egg production 198

#### **T02** (Check):

Breed: Vanaraja

- Av. Body wt at 6 weeks- 650-750 gm
- Body wt. at sexual maturity- 2000-2200gm
- Sexual maturity 160-175 days
- Annual egg production 190- 215 eggs

Problem diagnosis and severity: Low productivity of local bird (72 %)

## Parameters of assessment

- i. Duration of maturity
- ii. Maturity body weight
- iii. Av. Live body weight.
- iv. Production of egg/bird/year
- v. Egg weight
- vi. Age on egg laying
- vii. FCR
- viii. Economics

Unit: 6
No. of trials: 6
Location:
Island village &
Makhan village

Source: CARI-Bareilly (2004)

# On Farm Testing (OFT) Agri. extension, OFT-1

Title: Assessment of Knowledge level of farmer with regard to fingermillets cultivation practice

Problem diagnosis: Low yield of fingermillet

# **Details of Technology Crop: Millets**

Survey and Interview method

# Parameters of assessment

- i. Impact of the technology
- ii. % Adopter
- iii. Level of Adoption (Full/Partial/None)
- iv. Farmers knowledge level about the cultivation practices
- v. Training Participation Index
- vi. Training Effective Index

No. of respondents:100
Location: Toribari,
Thonglang

## FLDs (Discipline–Wise Summary) for 2024

Discipline	Crop/enterprise	No. of Technology	No. of demos proposed	Area (ha) to be covered/ no. of items/ activity	No. of Beneficiarie s
	Rice	1	7	2 ha	7
PBG	soybean	1	8	2 ha	8
	Field pea	1	8	2 ha	8
	Rice	1	6	2 ha	6
Plant protection	Onion	1	5	1 ha	5
	Cole crops	1	5	1 ha	5
	Turmeric	1	6	2 ha	6
Horticulture	Ginger	1	6	2 ha	6
	Broccooli	1	5	1 ha	5
	White pekin	1	10	10units	10
Animal science	Piggery	1	10	10units	10
	Piggery	1	10	10 units	10
Agril Extension	Paddy	1	-	100 respondents	
Agro-forestry	Tree bean, citrus, hollock, Pulse crop	1	2	1 ha	2
	Millets	1	10	10 units	10
Home Science	Kiwifruits	1	10	10 units	10
Farm Manager	NF	1	3	3 units	3
Total		17	111	16 ha, 53 units &100 respondents	111

# Frontline Demonstration (FLD) Horticulture, FLD-1

Title : Popularisation of Turmeric Var. RCT-1 (Megha turmeric 1)

## **Details of Technology Crop: Turmeric**

- ✓ Var.-RCT-1,
- ✓ Dur- 300-315 days
- ✓ Yield potential- 22-25 t/ha.

# Parameters of observation

i. No. of leaves/plant at 60,90,120 DAP

ii.Plant height (cm) at 60,90,120 DAP

iii.No. of fingers/plant

iv.Rhizome wt./plt.

(gm)

v. yield/plant

vi. Yield/ha

vii.Soil pH,OC,NPK

status (Before &

After)

viii. Economics

SOT: ICAR, Umiam, 2015

Area : 2 ha.

No. of Demo. :6

No. of farmers:6

Location

Chawangkining,

Maram Kabanum,

## Frontline Demonstration (FLD) **Horticulture, FLD-2**

Title: Popularisation of Integrated Nutrient Management of ginger

### **Details of Technology Crop: Ginger**

- Var.-Nadia
- Cow-dung manures @2.5 t/ha. + bio-inoculation with 4 kg, Azotobacter and 4 kg PSB+75% of RD of NPK

### Parameters of observation

i. Plant height

ii. No of Leaves at

60, 90 DAP

iii.Rhizome yield/plant

iv.Date of harvest

v. Soil pH,OC & **NPK** status (before & after) vi. Economics

SOT: ICAR, Manipur, 2014

: 2 ha. Area

No. of Demo. :6

No. of farmers:6

Location

Makhan, Village,

Khonglong Kabui &

Rajaimei

# Frontline Demonstration (FLD) Horticulture, FLD-3

Title: Popularization of high yielding broccoli var T5X0788

## **Details of Technology**

Crop: Broccoli

**√** Var.- T5X0788

**✓** Duration 60-65 days

✓ Yield Potential- 15-17t/ha.

## Parameters of observation

i.Days to 1st head
formation
ii.Curd weight
iii.Days to first
harvest
iv.Yield/ha
v.Soil pH,OC,NPK
status (Before &
After )
vi.Economics

SOT: BCKV, West Bengal,2012

Area : 1 ha.

No. of Demo. : 5

No. of farmers: 5

Location

Rikhumai Taphou,

Makuilongdi, New

Salem

# Frontline Demonstration (FLD) PBG, FLD-1

Title: Popularization of seed production technology of paddy var.

RC Maniphou 12

## Details of Technology Crop: Paddy

- -Var. RC Maniphou 12,
- Seed rate 60kg/ha,
- Spacing-20x10 cm
- -NPK @60:40:30 kg/ha.
- Isolation distance- 3m,
- Roughing as per requirement (Tillering, flowering & before harvesting)

#### Parameters of observation

- 1.Plant height(cm)
- 2.No. of effective tillers/hill.
- 3. Date of panicle initiation,
- 4. Number of panicles/hill
- 5.Number of spikelets /panicles
- 6. Filled grains/panicle
- 7.Test weight(g)
- 8. Grain yield(q/ha)
- 9.Harvest Index (%)
- 10.Soil pH,OC,NPK status

(Before & After)

11. Economics

#### SOT:

ICAR, Manipur, 2012

Area : 2 ha.

No. of Demo. : 7

No. of farmers:7

**Location:** 

Nungang, Parengba

# Frontline Demonstration (FLD) PBG, FLD-2

Title: Popularization of Soybean var. MACS 1460

## **Details of Technology**

**Crop: Soybean** 

Var.: MACS 1460 Duration- 100 days, Potential yield = 20-25q/ha

# Parameters of observation

- 1. Plant height (cm)
- 2. Branches/plant
- 3. Days to 50% flowering
- 4. Days to maturity
- 5. Pods/plants
- 6. Seed yield/plant(g)
- 7. Seeds/pods
- 8.100 seed weight
- 9. Seed yield(q/ha)
- 10.Soil pH,OC,NPK status (Before & After )
- 11. Economics

#### SOT:

Agharkar Research
Institute, Pune-2017

Area : 2

ha.

No. of Demo. :8

No. of farmers:8

**Location**:

S.Loushing,

Loikoiching, New

Salem

# Frontline Demonstration (FLD) PBG, FLD-3

Title: Popularisation of Fieldpea Var. VL Matar 47

## **Details of Technology**

Crop: Fieldpea

- Var. : VL Matar 47
- -Duration- 150-155 days,
- Potential yield = 14.2 -16. 2q/ha

# Parameters of observation

- 1. Plant height (cm)
- 2. Branches/plant
- 3. Days to 50% flowering
- 4. Days to maturity
- 5. Pods/plants
- 6. Pod length (cm)
- 7. Seeds /pod
- 8. 100 seed weight(g)
- 9. Seed yield(q/ha)
- 10.Soil pH,OC,NPK status (Before & After )
- 11. Economics

SOT: VPKAS-Almora, 2011

Area : 2

ha.

No. of Demo. :8

No. of farmers: 8

**Location:** 

L.Phaijang,

Hengbung &

Moirangpan

# Frontline Demonstration (FLD) PP, FLD-1

## Title: Management of leaf blast diseases of rice

### Details of Technology Crop: Rice

- i. Appln. of Azoxystrobin +
  Difenoconazole @ 0.1%, 1st
  spray at tillering stage and
  2<sup>nd</sup> spray at panicle initiation
  stage.
- ii. Appln. Of P. fluorescence and Bt @ 4-5 ml per litre water.

### Parameters of observation

- i. No. of infested plants
- ii. % Infestation
- iii. Average disease controlled %
- iv. % disease incidence
- v. Crop damage %
- vi. Time of disease occurrence
- vii. Yield/ha
- viii. Economics

SOT: CRRI, Cuttack, 2012

Area : 2

ha.

No. of Demo. : 6

No. of farmers: 6

**Location**: Saikul,

**T.Khullen** 

# Frontline Demonstration (FLD) PP, FLD-2

Title: IPM of thrips and leaf miner of spring onion

## Details of Technology Crop: Onion

i.Use of yellow and blue sticky trap@15 traps/acres

ii.Appln. of Beauveria bassiana @5g or 5ml per litre water at 2 WAT followed by consequence spray at 1 month interval (prophylaxis appln.)

iii.Appln. of neem oil 0.3% at 20 DAT followed by 2-3 sprays at 25 days interval (prophylaxis appln.) iv.Appln. of imidachloprid@0.05 % when it reaches ETL.

# Parameters of observation

- i. No. of infested plants
- ii. % Infestation
- iii. Average pest controlled %
- iv. % pest incidence
- v. Crop damage %
- vi. Time of pest occurrence
- vii. Yield/ha
- viii. Economics

SOT: NIPHM, Hyderabad, 20<u>14</u>

Area : 1

ha.

No. of Demo. : 5

No. of farmers: 5

**Location:** 

Rikhumai, Siangai

Namdai, Makhan

# Frontline Demonstration (FLD) PP, FLD-3

Title: Organic management of DBM and cabbage butterfly on cole crops (cabbage, cauliflower and broccoli)

### **Details of Technology**

Crop: Cabbage, cauliflower and broccool

- i. Appln. of Metarhizium anisopliae @
   5g/l water at 1 week after
   transplanting followed by another 2
   spray at 10 days interval
- ii. Yellow and blue sticky trap@15 traps/acres
- iii. Appln. of neem oil @ 0.5% at 2-3 WAT followed by 2-3 spray at 10 days interval

# Parameters of observation

- i. No. of infested plants
- ii. % Infestation
- iii. Average pest controlled %
- iv. % pest incidence
- v. Crop damage %
- vi. Time of pest occurrence
- vii. Yield/ha
- viii. Economics

SOT: ICAR, Umiam, 2019

Area : 1 ha.
No. of Demo. : 5
No. of farmers : 5
Location : Tungjoy,

**Ngari Khullen** 

# Frontline Demonstration (FLD) Animal Science, FLD-1

Title: Popularisation of White Pekin duck for meat purpose

# Details of Technology Enterprise: Duckery

### **Breed: White Pekin**

- Av. Live body wt. at 4 weeks = 1300-1500 gm
- Av. Live body wt. at 6 weeks = 2300-2500 gm

### Promising features:

- Meat purpose duck
- Fast growing

#### **SOT:**

Central Poultry Development Organisation, Bangalore, 2015

# Parameters of observation

- i. Live body weight gain in Kg (monthly)
- ii. Weight at sexual maturity (g)
- iii. Feed conversion efficiency
- iv. Economics

**Unit** : 10 **No. of Demo.** : 10

No. of farmers:10

Location : Teraphai,

Mayangkhang

# Frontline Demonstration (FLD) Animal Science, FLD-2

Title: Feeding of growing piglets with AAUVETMIN for enhancing farm income

Details of Technology

Enterprise: Piggery

✓ Supplementation of AAUVETMIN@20 gm per pig/day

# Parameters of observation

- i. Disease incidence
- ii. Acceptance of technology
- iii. Percent mortality rate
- iv. Live b. wt. (monthly)
- v. Economics

SOT: AAU, CVSc Khanapara 2013

**Unit** : 10

No. of Demo. : 10

No. of farmers:10

**Location**:

Mapao Khunou & Nungsai Chiru

# Frontline Demonstration (FLD) Animal Science, FLD-3

Title: Popularisation of chemical castration of piglets

## Details of Technology

**Enterprise: Piggery** 

Glacial acetic acid= 17ml
Distilled water =83ml to make
100ml vol.
KMnO4= 0.25gm

Administer @ 2ml/testicel

Parameters of observation

- i. Acceptance of technology
- ii. Labour efficiency
- iii. Size of testicel at 0, 7th, 14th,21st & 28th days.

**SOT:** ICAR, 2007

Unit : 10
No. of trials : 10
Location :

Mapao Khullen & New Sailem, Karong

# Frontline Demonstration (FLD) Agri. Extension, FLD-1

Title: Farmer's perception towards natural farming

Methodology used: Interview method (Questionnaire/ Perference matrix)

# Parameters of observation

- i. Impact of the technology
- ii. % Adopter
- iii. Level of Adoption (Full/Partial/None)
- iv. Farmers knowledge level about natural farming practices
- v. Training Participation Index
- vi. Training Effective Index
- vii. Level of preference (Low, medium, high)

No. of respondents: 100

No. of Village: 4

Name of village: Molhoi,

Leilon, Thonglang,

**Toribari** 

No. of farmers: 100

# Frontline Demonstration (FLD) Agro. Forestry, FLD-1

Title: Reclamation of degraded land with MPTS

## **Details of Technology**

Crop: Treebean, citrus, Terminalia

- √ Tree bean 8mx8m as main crop
- √ Terminalia as Boundary planting
- ✓ Citrus species Inter Space planting between tree bean

Parameters of observation

- i. Plant height (ft)
- ii. Adaptibility
- iii. Farmer's reaction
- iv. DBH (inch)

SOT: RFRI, Jorhat. 2015

Area: 1 ha.

No. of Demo. :2

No. of farmers: 2

**Location** :

Laikoiching, Joyland

# Frontline Demonstration (FLD) Home Science, FLD-1

Title: Promotion of value added product of millets (Laddu, cookies)

### **Details of Technology**

**1. Laddu:** 1 cup millet flour,1/2 cup melted ghee, ½ tsp. cardamom powder, 3 tbsp. milk, ½ cup sugar powder.

#### **Technology**

- \*Roast the millet for 5-10 mins and blend to fine powder and add cardamom powder and sugar. Pour heated ghee in prepared powder and add milk and mixed well. Then make the ball
- 2. Cookies: ½ cup millet flour,½ cup whole wheat flour,½ cup butter, ½ cup sugar powder, 1 teaspoon milk powder, ½ teaspoon flavor

#### Technology:

\*Beat 50g butter &Sugar powder (30gm) till fluffy,add millet flour 100g (Ragi, Sorghum, Bajara) till soft dough and add 5ml vanilla essence. Spread out dough on butter paper & roll it. Cut into shapes &perforate it. Bake it for 15 min at 180° in pre heated oven

#### SOT:

Indian Institute Millet Research, Hyderabad, 2016

Parameters of

### observation

- ✓ Shelf life
- ✓ Sensory acceptability
- ✓ Nutritive value
- ✓ Moisture content(%)
- ✓ BC ratio

**Unit** : 10

No. of Demo. :10

No. of farmers:10

Location

Karong Hengbung, Saikul

# Frontline Demonstration (FLD) Home Science, FLD-2

Title: Promotion of Value addition of Kiwi fruit for the preparation of Candy and Jam

### **Details of Technology**

### Crop: Kiwi fruit

- ✓ 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)

#### **SOT:**

Dr. Y. S. Parmar University of Horticulture and Forestry, Solan, 2007

## Parameters of observation

- I. Shelf Life
- 2. Acceptability (by hedonic scale)
- 3. Nutritive value
- 4. Moisture content(%)
- 5. BCR

**Unit** : 10

No. of Demo. :10

No. of farmers:10

Location : Purul,

Makuilongdi

# Frontline Demonstration (FLD) Farm Management, FLD-1

Title: Promotion of Beejamrit and Jeevamrut on cabbage in natural farming

## **Details of Technology**

### **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 days

#### SOT:

NF Training Centre, Gurukul Kurukshetra, 2020

# Parameters of observation

- ✓ Average size of head (LxB)
- ✓ Average
  weight of
  head (g)
- ✓ Disease incidence
- ✓ Soil
  pH,OC,NPK
  status
  (Before &
  After)

Yield (t/ha

Unit : 10

No. of Demo. : 10

No. of farmers:10

Location

Longa koireng,

New Salem

Molhoi,

Makuilongdi

# Training programmes (Discipline wise summary for farmers) for 2024

Discipline	Course		Total			
	(no)	On	Off	Spon.	Voc.	
Horti	4	-	80	-	-	80
PB <b>G</b>	4	-	80	-	-	80
PP	3	40	20	-	-	60
Vety.	4	-	80	-	-	80
Agril. Extn.	3	40	20	-	-	60
Farm manager	4	-	80	-	-	80
Agro- forestry	4	-	80	-	-	80
H . Sc	4	80	-	-	-	80
Total	30	160	440			600

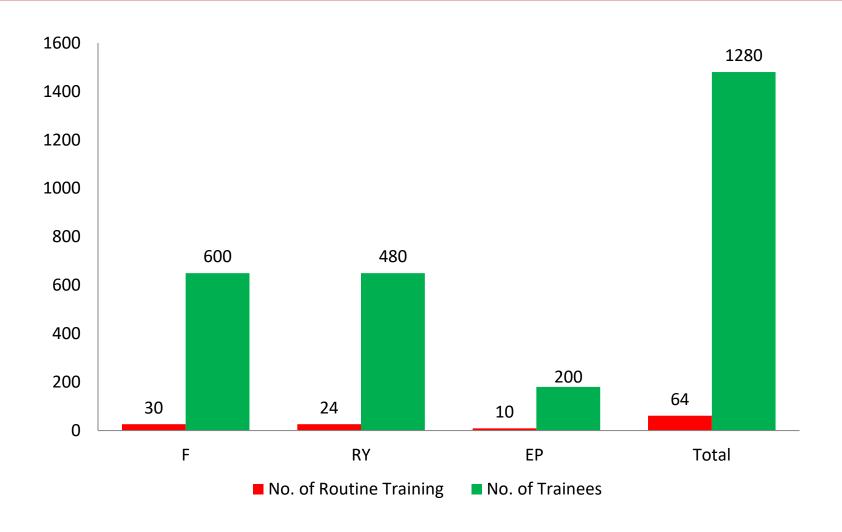
# Training programmes (Discipline wise summary for Rural youth) for 2024

Discipline	Course (no)	Ru	Total			
	(110)	On	Off	Spon.	Voc.	
Horti	3	-	40	-	20	60
PB <b>G</b>	3	-	40	-	20	60
PP	3	20	-	20	20	60
Vety.	3	-	40	-	20	60
Agril. Extn.	3	20	20	20	-	60
Farm manager	3	-	40	-	20	60
Agro- forestry	3	-	60	-	-	60
H . Sc	3	20	-	20	20	60
Total	24	60	240	60	120	480

# Training programmes (Discipline wise summary for Extension personnel) for 2024

Discipline	Course	Extension pe	Total		
	(no)	On	Off	Spon.	
Horti	1	-	20	-	20
PB <b>G</b>	1	-	20	-	20
PP	2	20	20	-	40
Vety.	1	-	20	-	20
Agril. Extn.	2	20	20	-	40
Farm manager	1	-	20	-	20
Agro- forestry	1	-	20	-	20
H . Sc	1	20	-	-	20
Total	10	60	140	-	200

## **Summary of Training Programme for 2024**



## **Extension Programmes/Activities for 2024**

		Nos.	Beneficiaries (No.)				
SI. No.	Extension Programme/ Activity	Propos ed	Farmers	Extn. Personnel	Rural Youth	Others	Total
A.	Field trips and Visits						
1	Diagnostic visit	245	350	-	120	-	470
2	Exposure visit	2	30	-	30	-	60
B.	Group activities						0
1	Celebration of important days	7	700	50	400	50	1207
2	Field day	5	160	5	50	10	230
3	Ex- trainees meet	15	200	-	10	-	225
4	Group meeting /discussion	10	150	-	50	-	210
5	PRA	5	90	-	60	-	155
6	Farmer Clubs' meeting	5	160	-	40	-	205
C.	Mass outreach program						0
1	Method demonstration	20	300	-	150	-	470
2	Film show	10	150	20	50	10	240
3	TV talk	5	-	-	-	-	5
4	Radio talk	10	-	-	-	-	10
5	Field publicity	20	600	20	300	30	970
7	Exhibition/mela	1	250	20	150	30	451
8	Advisory services/ telephone talk	120	-	-	-	-	120

### **Extension Programmes/Activities for 2024**

SI.	Extension	Nos.		Beneficiaries (No.)			
No.	Programme/ Activity	Propose d	Farmers	Extn. Personnel	Rural Youth	Others	
D.	Camps and Campaigns						
1	Soil health camp	2	100	10	60	30	202
2	Animal health camp	2	100	10	60	30	202
3	Awareness camp	5	250	-	50	50	355
E.	Publications						0
1	Extension literature	16	600		350	50	
	(Leaflet/ folders/ Pamphlets)						1016
2	Extension / technical	5	100	50	100	50	205
3	bulletin	1	300	50	100	50	305
4	News letter Print media coverage	20	-	30	-	-	501
	Trint media coverage			-			20
5	Research publications	2	-	-	-	-	2
6	Success stories/ Case	2	-	-	-	-	
	studies						2
	Total	290	4240	235	2010	390	7165

## **Seed Materials**

Seed Materials	Crop	Variety	Proposed quantity (ton) to be produced (both at KVK farm and farmers field)	Current Value (Rs.)	To be provided/ supplied to (Expected No. of farmers)
Cereals	Rice	RC Maniphou 13	5.0	Rs. 30/kg	95
Oilseeds	Soybean	Dsb 19	1.3	Rs. 60/kg	58
	Groundnut	ICGS-76	3.0	Rs. 80/kg	45
	Rapeseed	TS 38	1.1	Rs. 60/kg	75
Pulses	Blackgram	PU 31	0.6	Rs. 80/kg	25
	Fieldpea	Aman	1.0	Rs. 80/kg	20
Spices	Turmeric	Lakkadong	9.0	Rs. 15/kg	40
	Ginger	Nadia	1.0	Rs.40/kg	8
		Total	22 ton		358

## **Planting Materials**

Plantin g Materi als	Crop	Variety	Proposed quantity (Nos.) to be produced (both at KVK farm and farmers field)	Current Value (Rs.)	To be provided/supplie d to (Expected No. of farmers)
	Pomegranate	Bedena	1500	Rs. 10/seedling	15
Fruits	Kiwifruit	Allison, , Monty, Hayward	1000	Rs. 80/seedling	10
	Lime	Kachai lemon		Rs. 10/seedling	30
	Citrus	Aurintofolia	1000	Rs. 10/seedling	10
	Papaya	Honey dew	1500	Rs. 10/seedling	20
	Mimusops elengii	nusops elengii Ornamental		Rs. 10/plant	10
	Cassia javanica	Ornamental	1000	Rs. 10/plant	10
Forest	Tectona grandis	MPTS	1000	Rs. 10/plant	10
Specie	Perkia roxbhurghii	MPTS	3000	Rs. 10/plant	20
S	Acacia glouca	MPTS	1000	Rs. 10/plant	10
	Terminaliya myriocarpa	MPTS	1000	Rs. 10/plant	10

# Planting Materials (contd.)

Planting Materials	Crop	Variety	Proposed quantity (Nos.) to be produced (both at KVK farm and farmers field)	Current Value (Rs.)	To be provided/ supplied to (Expected No. of farmers)
Vegetables	Cabbage	Rareball	5000	Rs.2/plant	15
	Broccoli	Green Magic	5000	Rs.5/plant	10
	Tomato	Arka Rakshak	2000	Rs.2/plant	15
	King Chilli	Local improved	8000	Rs.5/plant	10
	Tree tomato	Local improved	5000	Rs.3/plant	10
	cauliflower	Snow white	4000	Rs.2/plant	10
	Brinjal	Pusa purple lon	3000	Rs.2/plant	10
Flowers	Statice,petunia, hybrid marigold	-	10000	Rs.10/plant	30
Spices	Large cardamom	Varlangey	2200	Rs.12/plant	5
		Total	62200		270

# **Bio-products**

ltem	Product Name	Species	Proposed que be produced KVK farm an field	d (both at d farmers
			No.	Kg.
Bio-agents	Vermiworm	Eisenia foetida & Eudrillus eugenia	-	20
Bio-fertilizers	Vermicompost	-		3000
Livestock strains/	Fingerlings	Rohu & Grass carp,catla	300000	
fingerlings	Piglet	Cross bred Hampshire	50	-
Mushroom	Spawn	Oyster		1000
Total			300050	4020

# Production and Revenue generation by KVK from different sources during 2024 a. Seed production

Sl. No.	Crop	Production and re	evenue generation
		Production (q)	Revenue (lakh)
A.	Oilseeds		
	1. Toria	3	0.18
	2. Soyabean	5	0.30
	3. Groundnut	6	0.48
В.	Pulses		
	Blackgram	3	0.24
C.	1.Mushroom (oyster)	4.3	0.602
	Total	21.3	1.802

#### b. Planting Materials/ Seedlings produced during 2024

Sl. No.	Planting materials	Production and revenue generation		
		Production (No.)	Revenue (lakh)	
A.	Vegetables			
	1. cabbage	3000	0.06	
	2. brocolli	3000	0.09	
	3. tomato	2000	0.04	
	4. kingchilli	5000	0.25	
	5. Tree tomato	4000	0.12	
	6. cauliflower	3000	0.06	
	7. Brinjal	3000	0.06	
B.	Fruits			
	1. lime	2000	0.2	
	2. pomegranate	1000	0.1	
	3. papaya	1000	0.1	
C.	Ornamental plants/ trees			
	1. Mimusops elengii	500	0.05	
	2. Cassia javanica	500	0.05	

#### b. Planting Materials/ Seedlings produced during 2024. Contd..

SI.	Planting materials	Production and revenue generation		
No.		Production (No.)	Revenue (lakh)	
D.	Tree species			
	1. Tectona grandis	1000	0.1	
	1. Parkia roxbhurghii	2000	0.2	
	1. Acacia glouca	1000	0.1	
	1. Terminaliya myriocarpa	1000	0.1	
E.	Flowers			
	1. Statice,	2000	0.2	
	1. petunia	2000	0.2	
	1. margiold	1500	0.15	
F.	Others (Pl. Specify)			
	Large cardamom	2000	0.24	
	Total	18000	0.83	

#### c. Livestock strains/ Fingerlings produced during 2024

SI.	Livestocks	Production and revenue generation		
No.		Production (No.)	Revenue (lakh)	
Α.	Livestock strains (nos. in lakh)			
	1. piglets	0.0004	2.4	
D.	Fisheries/ Fingerlings (nos. in lakh)			
	1. IMC & Exotic fingerling	0.50	0.5	
	Total	0.50004	2.9	

#### d. Other Sources

Sl. No.	Items	Production and r	evenue generation
		Production (q)	Revenue (lakh)
Α.	Vegetables		
	1. Broccoli	4.5	0.18
	1. Cabbage	10	0.10
В.	Others		
	1. Vermicompost	15	0.225
	1. Vermiworm	0.1	0.05
	Total	29.6	0.555

## Status of Revolving Fund (RF) of KVK (in lakh ) during 2024

SI	Activities under RF	Opening balance as on 1st April, 2024	Income during the year	Expendit ure during the year	Income to be generate d	Net income in KVK as on 31st March, 2025
1	Livestock, fishery, agri input and others	8.06387	10.00	8.00	10.00	10.00
	Total:		10.00	8.00	10.00	10.00

#### Soil & Water Sample Analysis / Soil Health Cards (SHCs) for 2024

SI. No.	Samples	Nos. of samples targeted	Target of Farmer beneficiarie s	Village to be covered	Amount to be realised (Rs.)	Expected SHCs to be issued to farmers (Nos.)
1.	Soil sample	200	300	23	-	300
2.	Water sample	50	50	10	-	
	Total	250	350	33	-	300

## **Mobile Advisory for 2024**

Mes	Crop		Livest	tock	Weat	her	Mark	eting	Awar	eness	Other Enter		Total	
type sent	No. of Mess age	No. of Ben eficia ry	No. of Mess age	No. of Benef iciary	No. of Mess age	No. of Benef iciary	No. of Mess age	No. of Benef i ciary	No. of Mess age	No. of Benef iciary	No. of Messa ge	No. of Benef iciary	No. of Messa ge	No. of Benefi ciary
Text	38	375	21	336	8	120	8	175	4	135	4	150	83	1291
only Voic e only	120	480	30	230	200	50	40	120	10	110	10	70	140	1060
Voic e and Text both	_	-	-	-	-	-	-	-		-	-	-	-	-
	158	855	51	566	208	170	48	295	14	245	14	220	223	2351

## **Contingency Planning for 2024**

#### a. Crop based Contingency planning

Contingency (Drought/	Proposed Measure	Proposed Area (In ha.)	Number of beneficiaries proposed to be covered			
Flood/ Cyclone/ Hailstorm Any other please specify)		to be covered	General	SC/ST	Total	
Delayed monsoon	DSR	15	-	55	55	
Early cessation of monsoon	Introduction of early varieties of winter pulses and oilseeds	10	-	42	55	
Drought	Growing of blackgram & ricebean	10	-	35	35	
Cold wave ( frost injury)	Irrigation in late evening	10	-	38	38	

#### b. Livestock based Contingency Planning for 2024

Contingency (Drought/ Flood/ Cyclone/ Any	Numbe r of birds/ animals	No. of program mes to be	No. of camps to be organize	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
other please specify)	to be distribu ted	undertak en	d		Gener al	SC/S T	Total
In case of crop failure	500 birds	2	4	5000	-	110	110
	30 piglets	2	2	700	-	350	350

# Functional linkages to be established with different organizations during 2024

SI. No.	Name of organization	Nature of linkage
1	ICAR, Manipur Centre	Technical input & logistic support & discussion & meeting.
2	Central Agricultural University	Technical input & logistic support, Mela & join awareness camp, discussion & meeting.
3	Ministry of Science & Technology, Gol	Provision of Societal based scheme & projects.
4	IIHR, Bangalore	Technical support & guidance
6	NABARD-Senapati	Training & information sharing, formation of farmer club & awareness programme on financial inclusion.
7	CRIDA, Hyderabad	Agro Metrological advisory & preparation of contingent crop plan.
8	State Line Dept.	Training, demonstration, diagnostic visit & field visit, review of SREP, information sharing & input & financial support, meeting & join soil & animal health campaign/camp.
9	SFAC, Manipur	Sponsored training & information sharing

# Functional linkages to be established with different organizations during 2024 (contd.)

Sl. No.	Name of organization	Nature of linkage
10	DRDA, Senapati	Sponsored training, join discussion & meeting.
12	TD, Dept., Govt. of Manipur	Selection of beneficiaries & information sharing & consultancy.
13	Nehru Yuva Kendra	Join training programme, awareness camp, exposure visit, meeting & information sharing.
14	District Vety Office, Senapati	Participation in meeting and joint animal health care programme
15	NFDB, Hyderabad	Sponsored training, join discussion & meeting
16	DIC	Participation in meeting.
17	RCOF	Joint training & participation in meeting.
18	NGOs	Training & meeting.
19	ATMA, Senapati	Training, exposure visit, meeting & information sharing,

## Natural Farming Activities proposed during 2024

Activity/ Items	No. of programme/ activity	No. of participants
1. Awareness programme		
a. Exhibition	2	200
b. Kisan Goshi	2	50
c. Campaign	3	150
d. Publication (Extension materials, posters, leaflets etc.)	5	300
2. Training	4	160
3. Demonstration	10	10

## MGMG Activities proposed during 2024

Activity/ Items	Number	No. of participants	
		ST	others
No of villages	6	100	20
No of visit	18	80	10
No of demonstration	12	120	-
No of farmer visit	6	120	20
Total:	42	420	50

# THANK YOU (THAGATCHARI)