KVK-SENAPATI

Hengbung, Senapati District, Manipur

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

Annual Action Plan - 2023

भाकृअनुप
ICAR

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.	Dr. Hoilenting	Subject Matter Specialist	Fisheries
8.	Athokpam Brojendro Singh	Programme Assistant	Agro-Forestry
9.	Nemnu Hangshing	Programme Assistant	Home Science
10.	Kangjam Homen Singh	Programme Assistant	Farm Manager
11.	Kshetrimayum Ranjit Singh	Office Assistant	-
12	Mutum Ronel Singh	Stenographer-cum-computer operator	-
13.	Pheiroijam Tomba Singh	Driver	-
14.	Thanginlal Chongloi	Driver cum Mechanic	-
15.	Chungkholam Chongloi	Supporting staff	-
16.	Kamminlal Kipgen	Supporting staff	-

Action Taken Report of SAC Meeting held on 9/01/2023

Sl. No	Recommendations	Remarks
1.	To organise training programme on button mushroom cultivation	Included in the current action plan under PP discipline
2.	To popularise grafting in plum fruit instead of air layering under FLD	Will include in Action Plan 2024
3.	To take up intercropping of maize with frenchbean to manage FAW	Included the technology under FLD

On Farm Testing (Discipline–Wise Summary) for 2023

Discipline	Crop/enterprise	No. of Technology/ Social Concept/ methodology to be		No. of trials proposed	
		Assessed	Refined	Assessment	Refinement
Horticulture	Turmeric	1	-	6	-
	Onion	1	-	6	-
PBG	Soyabean	1	-	6	-
	Field pea	1	-	6	-
Fishery	Magur (Clarius batrachus)	1	-	5	-
	IMC	1	-	5	-
Plant Protection	Citrus	1	-	5	-
	Rice	1	-	5	-
Animal Science	Poultry	1	-	6	-
	Poultry	1	-	6	
Agri. extension	Field pea	1	-	50 respondents	-
Total		**11**		**56 trials & 50 respondents**	

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

Title: Performance of Turmeric var. RCT-1

Details of Technology

Crop: Turmeric

TO1:
- Var.-RCT-1
- Dur- 300-315 days
- Yield potential- 22-25 t/ha.

TO2:
- Var. -Lakadong
- Dur- 300 days
- Yield potential – 20-23t/ha.

TO3:
- Var.- Local improved
- Dur.- 315-330 days
- Yield potential – 15-16t/ha.

Problem diagnosis and severity : Low yield of local turmeric cultivar. (76%)

Parameters of assessment

i. Yield
ii.Plant height
iii. BCR

Area : 1 ha.
No. of trials : 6
Location : Chawangkining

Source: ICAR, Barapani - 2019

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

Title : Performance of Onion Vars. Arka Lalima & Arka Kalyan

Problem diagnosis and severity : Low yield of local Onion cultivar (78 %)

Details of Technology

Crop: Onion

TO1:
- Var. - Arka Lalima
- Dur- 130-140 days
- Yield potential - 47 t/ha.
- Bulb wt. – 120-130 gm.

TO2:
- Var.- Arka Kalyan
- Dur- 130 days
- Yield potential- 40t/ha.
- Bulb wt. – 100-140 gm

TO3:
- Var.- Prema
- Dur.- 130-135 days
- Yield potential – 30t/ha.
- Bulb wt. – 75-85 gm

Parameters of assessment

i. Yield
ii.Plant Height
iii. BCR

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

Source: IIHR 2018

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

Title : Performance of Soyabean var. MACS 1460

Problem diagnosis and severity: Low yield of existing variety (68 %)

Details of Technology

Crop: Soyabean

TO1:

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

TO2:

Var.: DSB-19,
Duration- 100-110days,
Potential yield = 19 -20Q/ha

TO3:

Var.: JS-335,
Duration- 95-100 days,
Potential yield = 15 -20Q/ha

Parameters of assessment

i. Plant height (cm)
ii. No. of pods/plant
iii. Yield

Area : 1 ha.
No. of trials : 6
Location : Molhoi, Leilon

Source: Agharkar Research Institute, Pune-2017

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

Title : Performance of Rajhma Var. Sikkim Rajhmash 1

Problem diagnosis and severity: Lack of suitable variety that can ensure higher productivity (72 %)

Details of Technology

Crop: Rajhma

TO1:

Var. : Sikkim Rajhmash 1
Duration- 100 days,
Potential yield = 12-15 q/ha

TO2:

Var. : Tripura Rajhma Sel.1
Duration- 80-90 days
Potential yield = 10-15 q/ha

TO3:

Var. : Local
Duration- 90-110 days,
Potential yield = 8-10q/ha

Parameters of assessment

i. Plant height (cm)
ii. No. of pods/plant
iii. Yield
iv. B.C ratio

Area : 1 ha.
No. of trials : 6
Location :
Katomei, Chaljang

Source: ICAR RC NEH Region, Sikkim Centre, 2011

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

Title : Management of citrus fruit flies (Bactrocera sp.)

Problem diagnosis and severity: Fruit flies (75 %)

Details of Technology

Crop: Citrus fruit

TO1:

Application of Malathion 20 ml, added with 200g jaggery in 20 L water

Application of Metarhizium @2ml/l of water at fruiting stage

TO2:

Using methyl Eugenol traps @ 20 traps/acre at fruit setting stage

TO3: Super killer @1ml/L

Parameters of assessment

i. Per cent disease incidence

ii. Per cent yield increase

iii. B:C ratio

Area : 1 ha.

No. of trials : 5

Location : **Tadubi, Sajouba**

Source: VPKAS, Almora (2019)

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

Title : Management of blast disease in rice

Details of Technology

Crop: Paddy

TO1:

Application of silica (SiO2) @4g/L at 22 DAT or DAE in direct seeding

TO2:

Application of Azoxystrobin + Difenoconazole at 0.1% at tillering and boot stage.

TO3:

Application of tebuconazole + trifloxystrobin **at 0.04%** at tillering and boot stage.

Problem diagnosis and severity: 81%

Parameters of assessment

i. Per cent disease incidence,
ii. Per cent increase yield
iii. B:C ratio

Area : **1 ha.**
No. of trials : 5
Location : Parengba, Pudunamai

Source: VPKAS, Almora (2019)

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

Title : Introduction of grow-out monoculture of Magur (*Clarius batrachus*)

Problem diagnosis and severity: Poor diversification of high value fish (75 %)

Details of Technology

Enterprise : Fish (Magur)

T01:

Monoculture of Magur

Stocking density:50,0000/ ha

Feeding rate: 3-5% body weight

Feed : Pellet feed

Culture period : 10-12 months

Parameters of assessment

i.Survival rate
ii.Growth rate at different stage
iii.Yield
iv. BCR

Area : 0.5 ha.
No. of trials : 5
Location :Molhoi, Liyai Kalaphar

Source: ICAR-CIFA, 2016

On Farm Testing (OFT)
Fisheries, OFT-2 (2nd yr. trial)

Title : Assessment on economic profitability of different stocking and harvesting strategies in composite fish culture

Problem diagnosis and severity: Less economic return due to unscientific stocking and harvesting strategy followed by fish farmers in the district (82 %)

Details of Technology

Enterprise : Fish (IMC)

TO1:
SSSH (8000 nos. /ha. 1 stocking and 1 harvesting)
Duration: 12 months

TO2:
SSMH (24000 nos./ha. 1 stocking and 3 harvestings)
Duration: 12 months

TO3:
MSMH (24000 nos./ha. 3 stocking and 3 harvesting)
Duration: 12 months

Parameters of assessment

i. Average length and weight during each stocking and harvesting
ii. Farm gate price
iii. BCR

Area : 0.5 ha.
No. of trials :5
Location :
Leilon, T. Khullen

Source: ICAR, Tripura Centre, 2015

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

Title : Performance of Srinidhi bird for Egg production

Details of Technology

Enterprise : Poultry

T01:

Breed : Srinidhi poultry

T02:

Breed: Vanaraja

T03:

Local/Non descript poultry

Problem diagnosis and severity: **Poor egg laying capacity of local birds (72 %)**

Parameters of assessment

i. Nos. Of Egg production

Unit : 6

No. of trials : 6

Location :

Koide and S. Molding

Source: ICAR-DPR, Hyderabad (2014)

On Farm Testing (OFT)
Animal Science, OFT-2 (2nd yr. trial)

Title : Performance of Kamrupa poultry as a dual purpose bird

Problem diagnosis and severity: Low body weight and egg production of local bird (81%)

Details of Technology

Enterprise: Poultry

TO1:

Breed: Kamrupa

TO2: - Non descript breed

Parameters of assessment

i. Nos. of Egg production
ii. Average live.b.wt.

Unit : 6
No. of Demo. : 6
No. of farmers : 6
Location :
Mapao Khullen and Haipi Village

Source: AAU, Khanapara (Guwahati) (2014)

On Farm Testing (OFT)
Agri. extension, OFT-1 (2nd yr. trial)

Title : Impact study of minimum tillage of field pea under CFLD during last 5 years

Problem diagnosis and severity: High cost of production (70 %)

Details of Technology

Crop: Field Pea

T01:

Survey and interview of respondent farmers

Parameters of assessment

i. Yield /Income
ii.Problem faced
iii.Farmers knowledge level
iv.Cropping intensity

No. of respondents :50

Location :

Makhan, Makuilongdi Village

FLDs (Discipline–Wise Summary) for 2022

Discipline	Crop/enterprise	No. of Technology	No. of demos proposed	Area (ha) to be covered/ no. of items/ activity	No. of Beneficiaries
PBG	Paddy	1	12	3 ha	12
	Paddy	1	12	3 ha	12
	Field pea	1	12	3 ha	12
Fishery	Grass carp	1	10	1 ha	10
	Tilapia	1	10	1 ha	10
	Pengba	1	10	1 ha	10
Plant protection	Chilli	1	4	1 ha	8
	Papaya	1	4	1 ha	4
	Maize	1	5	2 ha	8
Horticulture	Broadbeans	1	4	1ha	4
	Tomato	1	6	2 ha	6
	Frenchbeans	1	4	1 ha	4
Animal science	Duck	1	10	10units	10
	Piggery	1	10	10units	10
	Piggery	1	10	10 units	20
Agril Extension	Paddy	1	-	50 respondents	
Agro-forestry	Tree bean, citrus, hollock, Pulse crop	1	2	1 ha	2
Home Science	Kiwi	1	10	10 units	10
	Pineaple	1	10	10 units	10
Farm Manager	NF	1	3	3 units	3
Total		20	150	21 ha, 53 units & 50 respondents	165

Frontline Demonstration (FLD) Horticulture, FLD-1 (1st yr. Demo.)

Title : Popularization of Broadbean var. Pusa Udit

Details of Technology

Crop: Broadbean

- ✓ Var.- Pusa Udit
- ✓ Duration – 150 days
- ✓ Yield potential- 17.5t/ha

Parameters of observation

i. Plant Height
ii. Yield
iii. BCR

Area : 1 ha.
No. of Demo. :4
No. of farmers :4
Location :Chawangkining, Thonglang Akutpa

Frontline Demonstration (FLD) Horticulture, FLD-2 (1st yr. Demo.)

Title : Popularization of Tomato Var. Arka Abhed

Details of Technology

Crop: Tomato

- ✓ Var.- Arka Abhed
- ✓ Duration- 140-150 days
- ✓ Yield Potential -70-75t/ha.
- ✓ Fruit size - 90-100 gm

Parameters of observation

i. Plant height
ii. Yield
iii. BCR

Area : 2 ha.
No. of Demo. :6
No. of farmers :6
Location :
Mayangkhang & Molhoi Village

Frontline Demonstration (FLD) Horticulture, FLD-3 (1st yr. Demo.)

Title : Popularization of Frenchbean var. Arka Anoop

Details of Technology

Crop: Frenchbeans

- ✓Var.- Arka Anoop
- ✓Duration 70-75 days
- ✓Yield Potential- 20t/ha.

Parameters of observation

i.Yield
ii.BC ratio

Area : 1 ha.
No. of Demo. :4
No. of farmers :4
Location :
Karong, Katomei

Frontline Demonstration (FLD)
PBG, FLD-1 (2nd yr. Demo.)

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

Parameters of observation

1. Plant ht.
2. No. of tillers/plant
3. No. of spikelets/panicle
4. Yield

Area : 3 ha.
No. of Demo. : 12
No. of farmers :12
Location :
Mayangkhang, Parengba

Frontline Demonstration (FLD)
PBG, FLD-2 (2nd yr. Demo.)

Title : Popularization of late sown rapeseed var.TS-67 in rice fallow

Details of Technology

Crop: Rapeseed

- Var. TS-67
- Duration – 90 days,
- Potential yield= 7-10q/ha

Parameters of observation

1. Plant height
2. No. of pods/plant
3. No. of seeds/pod
4. Yield

Area : 3 ha.
No. of Demo. : 12
No. of farmers :12
Location :
L. Phaijang, Toribari

Frontline Demonstration (FLD)
PBG, FLD-3 (1st yr. Demo.)

Title : Popularisation of Fieldpea Var. VL Matar 47

Details of Technology

Crop: Fieldpea

- Var. : VL Matar 47
- Duration- 150-155 days,
- Potential yield = 14.17q/ha

Parameters of observation

1. Plant height
2. No. of pods/plant
3. Yield
4. BC ratio

Area : 3 ha.
No. of Demo. : 12
No. of farmers :12
Location : Molhoi, Leilon

Frontline Demonstration (FLD)
PP, FLD-1 (2nd yr. Demo.)

Title : Integrated Pest Management of thrips and mite in Chilli

Details of Technology

Crop: Chilli

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

Parameters of observation

i.% pest incidence
ii. Yield

Area : 2 ha.
No. of Demo. : 8
No. of farmers :8
Location :
Nungan, Parengba

Frontline Demonstration (FLD)
PP, FLD-2 (2nd yr. Demo.)

Title : Management of Fall Armyworm (Spodoptera fugeperda) of maize crops

Details of Technology

Crop: Maize

i. Appln. of sand or ash or soil slury on central whorl
ii. Intercropping with frenchbean
iii.Application of Metarhizium anisopliae talc @ 5 g/litre on central whorl at 15 days after sowing twice at 10 days interval,
iv. Appln. of Lamdacyhalothrin (9.5%) @ 0.25 ml/L water.

Parameters of observation

i. Percent pest incidence
ii. Yield
iii. BCR

Area : 2 ha.
No. of Demo. : 4
No. of farmers :4
Location : Kalaphar, Karong, Khongnem

Frontline Demonstration (FLD)
PP, FLD-3 (1st yr. Demo.)

Title : Integrated pest management of winter vegetables cold crops with special emphasis on DBM, cabbage butterfly and aphids

Details of Technology

Crop: Winter vegetables

i. Appln.of *Bacilus thuringiensis* @ 3ml/L
ii. Spray neem oil based azadirachtin 0.03%
iii. Yellow sticky insect trap @ 15-20traps/acre and inter crop with tomato and mustard as trap crops
iv. Appln of diclorvos 0.05% or calcium hydrocloride 0.05%

Parameters of observation

i. Percent pest incidence
ii. Yield
iii. BCR

Area : 1 ha.
No. of Demo. : 4
No. of farmers : 4
Location :Khongnem Thana, karong

Frontline Demonstration (FLD) Fisheries, FLD-1 (1st yr. Demo.)

Title : Popularization of low cost happa breeding of Amur carp

Details of Technology

Crop: Fish (Amur carp)

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

Parameters of observation

i. Hatching percentage
ii. Survival rate

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location: Kalaphar, Karong, Maram

Frontline Demonstration (FLD) Fisheries, FLD-2 (1st yr. Demo.)

Title : Popularization of monosex Tilapia under monoculture system

Details of Technology

Entreprise: Tilapia

Stocking density:20,000/ ha
Feeding rate: 3-5% body weight
Feed : Pellet feed
Culture period : 6 month

Parameters of observation

i. Growth rate at monthly interval
ii. Yield
iii. BCR

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location :
Goungaiphai, Kalaphar, Karong

Frontline Demonstration (FLD) Fisheries, FLD-3 (2nd yr. Demo.)

Title : Popularization of Pengba in composite fish culture

Details of Technology

Entreprise: Fish (Pengba, IMC & EC)

- Stocking of IMC, Exotic carp & pengba @ 8000 nos./ha,:

catla 20%, silver carp 10%, Rohu 30%, Pengba 10%, Mrigal 15%, C. carp 15%

Parameters of observation

i. Fish growth at monthly interval
ii. Fish yield

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location :
L.Champhai, L.Phaijang, Keithelmanbi

Frontline Demonstration (FLD)
Animal Science, FLD-1

Title : Popularization of Khaki Campbell under backyard rearing system

Details of Technology

Enterprise: Duckery

Breed: Khaki Campbell

Parameters of observation

i.Live body weight gain in Kg (monthly)

Unit : 10
No. of Demo. : 10
No. of farmers :10
Location :
T.Khullen and Khengjang villages

Frontline Demonstration (FLD)
Animal Science, FLD-2 (2nd . yr. Demo.)

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. Percent mortality rate
ii. Live b. wt. (monthly)

Unit : 10
No. of Demo. : 10
No. of farmers :10
Location :
Khunkho and IT camp

Frontline Demonstration (FLD)
Animal Science, FLD-4 (2nd . yr. Demo.)

Title : Deworming of Piglets for increasing income of farmwomen

Details of Technology

Enterprise: Piggery

Provision of anathematic (Albendazole @ 5-10 mg/Kg.b.wt. as oral)

Parameters of observation

i. Per cent mortality rate (monthly pre-weaning body weight)

ii. Live body weight (monthly)

Unit : 10

No. of trials : 10

Location :

Phaibung & Motbung villages

Frontline Demonstration (FLD)
Agri. Extension, FLD-1 (1st. yr. Demo.)

Title : Farmer's perception towards natural farming

Methodology used: Interview method (Questionnaire/ Perference matrix)

Parameters of observation

i. Level of preference (Low, medium, high)

No. of respondents : 40
No. of Village : 4
Name of village: Molhoi, Leilon, Makuilongdi, T. Khullen
No. of farmers : 40

Frontline Demonstration (FLD)
Agro. Forestry, FLD-1 (2nd. yr. Demo.)

Title : Introduction of MPTS with existing farming system

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. Tree height,
ii. Girth,
iii. Crop yield

Area : 1 ha.
No. of Demo. : 2
No. of farmers : 2
Location : Besho

Frontline Demonstration (FLD)
Home Science, FLD-1 (1st yr. Demo.)

Title :Promotion of osmotic dehydration of Pineapple for preparation of candy

Details of Technology

Enterprise: Pineapple

- ✓ 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)

Parameters of observation

i. Product recovery
ii. Shelf life (months)
iii. Acceptability (hedonic scale)

Unit : 10
No. of Demo. : 10
No. of farmers : 10
Location :
Kangchup Geljang, Kaithelmanbi

Frontline Demonstration (FLD)
Home Science, FLD-2 (2nd yr. Demo.)

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)

Parameters of observation

1. Shelf Life
2. Acceptability (by hedonic scale)
3. BCR

Unit : 10.
No. of Demo. : 10
No. of farmers : 10
Location :
Saikul, Hengbung

Frontline Demonstration (FLD)
Farm Management, FLD-1 (1st yr. Demo.)

Title : Promotion of Beejamrit and Jeevamrut 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:

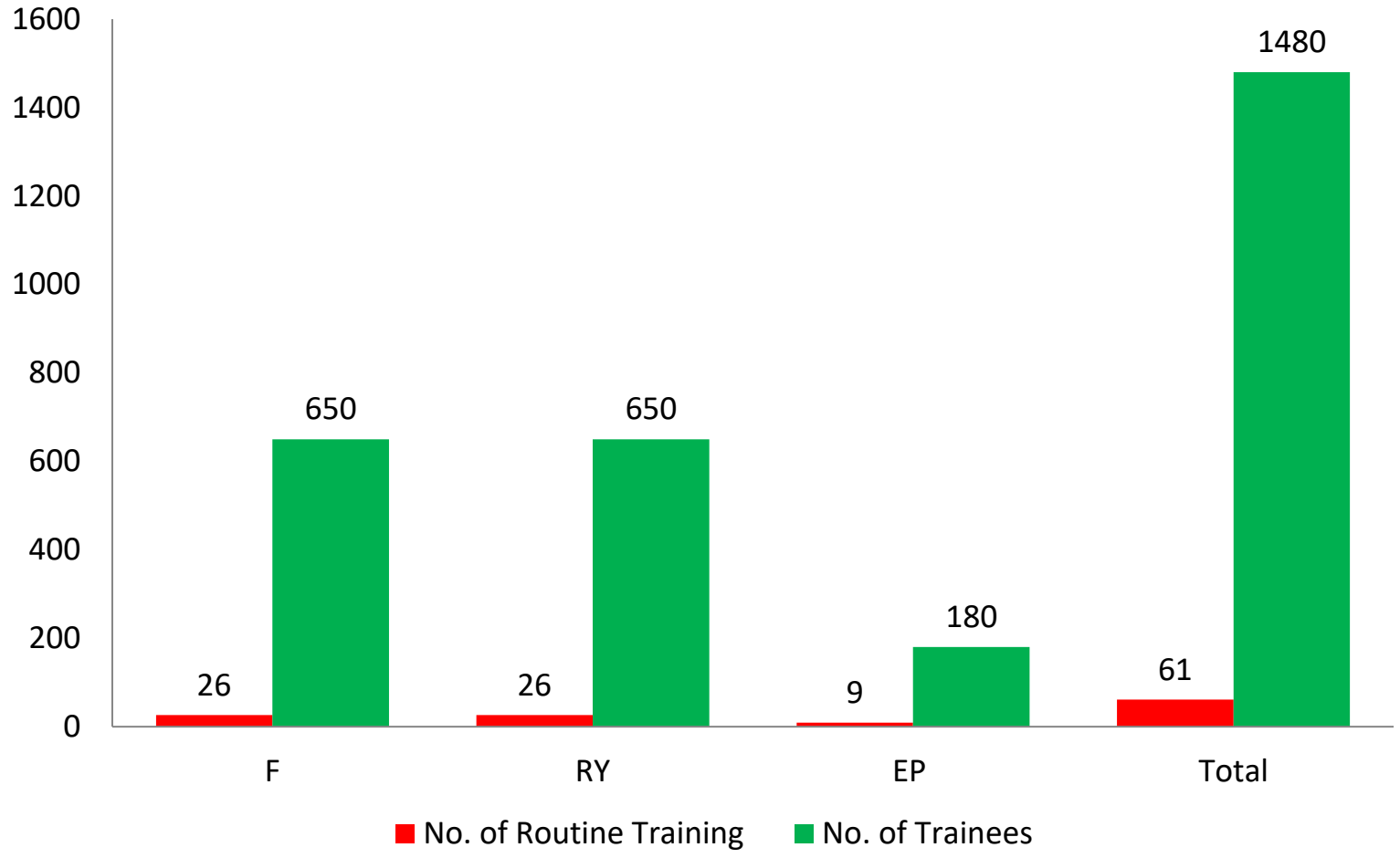
Water- 200 Litres, Cow Dung - 10 Kilograms, Cow Urine - 10 Litres, Pulse Flour - 2 Kilograms, Jaggery- 2 Kilograms, Soil - A handful

Parameters of observation

- ✓ **Disease incidence**
- ✓ **Yield**

Unit : 10
No. of Demo. : 10
No. of farmers :10
Location : Molhoi, T.Khullen, Leilon, Makuilongdi

Details of Training Programme for 2023



Extension Programmes/Activities for 2023

Sl. No.	Extension Programme/ Activity	Nos. Proposed	Beneficiaries (No.)				Total
			Farmers	Extn. Personnel	Rural Youth	Others	
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 2023

Sl. No.	Extension Programme/ Activity	Nos. Proposed	Beneficiaries (No.)				Total
			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 (Leaflet/ folders/ Pamphlets)	16	600		350	50	1016
2	Extension / technical bulletin	5	100	50	100	50	305
3	News letter	1	300	50	100	50	501
4	Print media coverage	20	-	-	-	-	20
5	Research publications	2	-	-	-	-	2
6	Success stories/ Case studies	2	-	-	-	-	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	CAU-R1 (Tamphaphou)	5.00	Rs. 30/kg	95
Oilseeds	Soybean	Dsb 19	1.3	Rs. 40/kg	70
	Groundnut	ICGS-76	3.00	Rs. 80/kg	30
	Rapeseed	TS 38	2.1	Rs. 30/kg	170
Pulses	Blackgram	PU 31	0.3	Rs. 60/kg	15
	Fieldpea	Aman	0.3	Rs. 80/kg	3
Spices	Turmeric	Lakkadong	10	Rs. 15/kg	2
		Total	**22 ton**		**385**

Planting Materials

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)
Fruits	Pomegranate	Bedena	1000	Rs. 10/seedling	15
	Mandarin	Khasi mandarin	1000	Rs. 15/seedling	15
	Kiwifruit	Allison, , Monty, Hayward	1000	Rs. 80/seedling	10
	Lime	Kachai lemon	1000	Rs. 15/seedling	12
	Citrus	Aourintofolia	1000	Rs. 10/seedling	10
	Papaya	Honey dew	1500	Rs. 10/seedling	8
Forest Species	Mimusops elengii	Ornamental	1000	Rs. 10/plant	10
	Terminaliya myriocarpa	MPTS	1000	Rs. 10/plant	10
	Cassia javanica	Ornamental	1000	Rs. 10/plant	10
	Acacia glouca	MPTS	1000	Rs. 5/plant	10
	Citrus reticulata	orange	1000	Rs. 10/plant	10
	Tectona grandis	MPTS	1000	Rs. 10/plant	10
	Perkia roxbhurghii	MPTS	2000	Rs. 10/plant	20

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	1000	Rs.2/plant	15
	King Chilli	Local improved	1000	Rs.5/plant	10
	Tree tomato	Local improved	1000	Rs.3/plant	10
Flowers	Statice,petunia, hybrid marigold	-	1000	Rs.10/plant	10
Total			**30500**		**220**

Bio-products

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

Soil & Water Sample Analysis / Soil Health Cards (SHCs) for 2023

Sl. No.	Samples	Nos. of samples targeted	Target of Farmer beneficiaries	Village to be covered	Amount to be realised (Rs.)	Expected SHCs to be issued to farmers (Nos.)
1.	Soil sample	300	500	23	-	500
2.	Water sample	100	80	10	-	
	Total	**400**	**580**	33	**-**	**500**

Mobile Advisory for 2023

Message type sent	Crop		Livestock		Weather		Marketing		Awareness		Other Enterprise		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	38	375	21	336	8	120	8	175	4	135	4	150	83	1291
Voice only	120	480	30	230	200	50	40	120	10	110	10	70	140	1060
Voice and Text both	-	-	-	-	-	-	-	-	--	-	-	-	-	-
Total	158	855	51	566	208	170	48	295	14	245	14	220	**223**	**2351**

Contingency Planning for 2023

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Hailstorm Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed 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 2023

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	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 2023

Sl. 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, GoI	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 2023 (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 proposed during 2023

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	12	12

Precision farming

Activities/Intervention to be taken up under natural farming:

- ✓ **At KVK Farm :** Hydroponics techiques and King chilli cultivation through the application of plastic mulching and drip irrigation
- ✓ **At farmers field :** Precision farming of King chilli and Strawberry through the application of plastic mulching and drip irrigation

Area covered (in acre)

- ✓ At KVK Farm – 0.12
- ✓ At farmers field- 1

Functional linkage with concern stakeholders:
ICAR Institutes

Expected benefits out of precision farming in the district:
Higher productivity through optimum utilization of resources

THANK YOU (THAGATCHARI)