KVK-SENAPATI

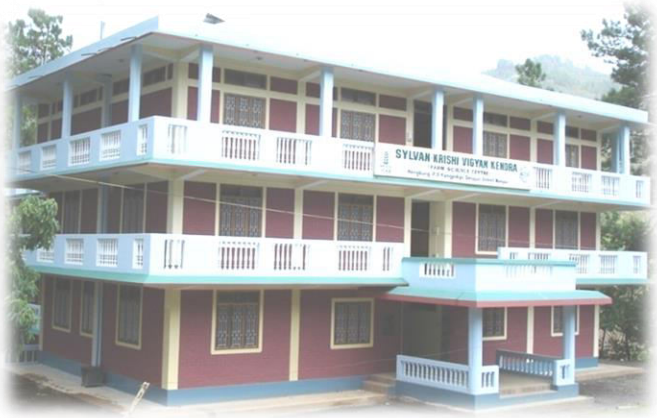
Hengbung, Senapati District, Manipur

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

Estd: 2002

Annual Action Plan

2022



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.	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.	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	-

On Farm Testing (Discipline–Wise Summary) for 2022

Discipline	Crop/enterprise	No. of Technology/ Social Concept/ methodology to be		No. of trials proposed	
		Assessed	Refined	Assessment	Refinement
Horticulture	Tomato	1	-	6	-
	Broadbeans	1	-	6	-
PBG	Fieldpea	1	-	6	-
	Soyabean	1	-	6	-
Fishery	Fish	1	-	4	-
	Fish	1	-	5	-
Plant Protection	Papaya	1	-	4	-
	Kiwi fruit	1	-	4	-
Animal Science	Poultry	1	-	6	-
	Piggery	1	-	3	
Agri. extension	Field pea	1	-	50 respondents	-
Total		**11**		**56 trials & 50 respondents**	

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

Title: Varietal performance of Tomato Var. Arka Abhed

Problem diagnosis and severity : Low yield of existing variety (71 %)

Details of Technology

Crop: Tomato

TO1:
- Var. - Arka Abhed
- Dur- 140-150 days
- Yield potential – 70-75t/ha.
- Fruit size: 90-100 gm.

TO2:
- Var.- Arka Rakshak
- Dur- 140 days
- Yield potential- 77-80t/ha.
- Fruit size: 90-100 gm

TO3:
- Var.- Local improved
- Dur.- 160-165 days
- Yield potential – 45-50t/ha.
- Fruit size- 65-70 gm

Parameters of assessment

i. Yield
ii.Duration
iii. Fruit size

Area : 1 ha.
No. of trials : 6
Loaction : Karong, Mayangkhang

Source: IIHR, 2018

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

Title : Varietal performance of Frenchbean var. Arka Anoop

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

Details of Technology

Crop: French bean

TO1:
- Var. - Arka Anoop
- Dur- 70 -75 days
- Yield potential -20 t/ha.

TO2:
- Var.- Arka Arjun
- Dur- 70 days
- Yield potential- 17t/ha.

TO3:
- Var.- Local improved
- Dur.- 80-85 days
- Yield potential – 8t/ha.

Parameters of assessment

i. Fruit size
ii.Duration
iii. Yield

Area : 1 ha.
No. of trials : 6
Location : Taphou phyamai & Makhan

Source: IIHR 2018

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

Title : Varietal performance of Soyabean var. MACS 1460

Problem diagnosis and severity: Low yield of existing variety
(62 %)

Details of Technology

Crop: Soyabean

T01:
Var. : MACS 1460
Duration- 100 days,
Potential yield = 20-25Q/ha

T02:
Var.: DSB-19,
Duration- 100-110days,
Potential yield = 19 -20Q/ha

T03:
Var.: JS-335,
Duration- 95-100 days,
Potential yield = 25 -27Q/ha

Parameters of assessment

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

Area : 1 ha.
No. of trials : 6
Location :
Santolabari, New Saikul

Source: Agharkar Research Institute, Pune-2017

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

Title : Varietal performance of Fieldpea Var. VL Matar 47

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

Details of Technology

Crop: Fieldpea

TO1:
- Var. : VL Matar 47
- Duration- 150-155 days,
- Potential yield = 14.17q/ha

TO2:
- Var. : Aman
- Duration- 130 days,
- Potential yield = 22q/ha

TO3:
- Var. : Rachana,
- Duration- 94-121 days,
- Potential yield = 21q/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 :
Parsian, karong

Source: VPKAS-Almora, 2011

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

Title : Management of root rot disease of Papaya

Problem diagnosis and severity: Poor performance due to root rot (63 %)

Details of Technology

Crop: Papaya

TO1:

i) Soil application of trichoderma viride @2-3g/l water

ii). Appln. of Bordeaux mixture 5:5:50

TO2:

i) Carbendazim 50WP@0.02%

TO3:

i) Soil application of trichoderma viride @2-3g/l water

TO4:

i). Appln. of Bordeaux mixture 5:5:50

Parameters of assessment

i. Per cent disease incidence

ii. Yield

Area : 1 ha.

No. of trials : 4

Location : Siangai, Chongphun

Source: Y.S Parmar University of Horticulture and Forestry, Solan, HP, 2016

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

Title : Biological management of crown rot or root rot disease in organic Kiwi fruit cultivation

Details of Technology

Crop: Kiwi Fruit

TO1:

i. Application of Trichoderma @5g/L.

ii. Application Annonin extracts @ 2ml/ L.

TO2:

i. Moncozeb @ 2gm/l water

TO3:

i. Application of Trichoderma @5g/L.

TO4:

i. Application Annonin extracts @ 2ml/

Problem diagnosis and severity: Poor performance due to root rot (61%)

Parameters of assessment

i.Per cent disease incidence

ii.Yield

Area : 0.5 ha.

No. of trials : 5

Location : Purul, Oinam

Source: ICAR-NEH , 2020.

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

Title : Assessment of monosex Tilapia under monoculture system at different stocking density

Problem diagnosis and severity: poor growth rate of local fish sp. taking long culture period to attend marketable size (63 %)

Details of Technology

Enterprise : Fish (Tilapia)

T01:

Monoculture of Tilapia

Stocking density:10,000/ ha

Feeding rate: 3-5% body weight

Feed : Pellet feed

Culture period : 6 month

T02:

Stocking density:20,000/ ha

Feeding rate: 3-5% body weight

Feed : Pellet feed

Culture period : 6 month

Parameters of assessment

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

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

Source: CIFA, 2015

On Farm Testing (OFT)
Fisheries, OFT-2 (1st 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 (60 %)

Details of Technology

Enterprise : Fish (IMC)

TO1:
SSSH (8000 nos. /ha. 1 stocking and 1 harvesting)
Duration: 10 months

TO2:
SSMH (24000 nos./ha. 1 stocking and 3 harvesting)
Duration: 10 months

TO3:
MSMH (24000 nos./ha. 3 stocking and 3 harvesting)
Duration: 10 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: Gramapriya

T03:

Farmers Practices: Local/Non descript poultry

Problem diagnosis and severity: Low egg productivity of the existing breed (72 %)

Parameters of assessment

i. Nos. Of Egg production
ii. Avg. live body wt. (monthly)

Unit : 5
No. of trials :5
Location :
T. Aimol & Sadu Chiru villages

Source: ICAR-DRP, Hyderabad (2014)

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

Title : Introduction of Lumsniang pig

Problem diagnosis and severity: Poor growth rate of non descript breed (61%)

Details of Technology

Enterprise: Piggery

TO1:
Lumsniang (live body wt. of 90-100 kg at 12 months)

TO2:
Crossbreed Hampshire

TO2: Non descript breed, Live body wt. of 75-80kg at 12 months

Parameters of assessment

i. Average live b. wt. (monthly)

Unit : 4
No. of Demo. : 4
No. of farmers : 4
Location : Sinam Kom, Konsakhul

Source: ICAR, Barapani, 2017

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

TO1:

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
	Rapeseed	1	12	3 ha	12
	Maize	1	12	3 ha	12
Fishery	Grass carp	1	10	1 ha	10
	Lime	1	10	1 ha	10
	Pengba	1	10	1 ha	10
Plant protection	Chilli	1	4	1 ha	4
	Rice	1	4	1 ha	4
	Maize	1	5	5 units	5
Horticulture	Broccoli	1	6	1ha	6
	Turmeric	1	6	1 ha	6
	Cabbage	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
	Mushroom	1	10	10 units	10
Farm Manager	plum	1	3	3 units	3
Total		20	150	18 ha, 58 units & 50 respondents	160

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

Title : Popularization of high yielding broccoli var. T5X0788

Details of Technology

Crop: Broccoli

- ✓ Var.- T5X0788
- ✓ Dur. – 60-65 days
- ✓ Yield potential- 15-17t/ha

Parameters of assessment

i. Curd Size
ii. Yield
iii. Duration

Area : 2 ha.
No. of Demo. :8
No. of farmers :8
Location : Makhan, Chawangkining

Source: BCKV, West Bengal, 2012

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

Title : Integrated Nutrient management in Turmeric

Details of Technology

Crop: Turmeric

- ✓ Cow-dung manures @2.5 t/ha. + bio-inoculation with 4 kg Azobacter and 4 kg PSB+75% of RD of NPK

Parameters of assessment

i. Plant height
ii. Yield
iii. BCR

Area : 2 ha.
No. of Demo. :8
No. of farmers :8
Location :
Chawangkining

Source:ICAR Research Complex Barapani, 2015

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

Title : Popularization of Offseason cultivation of cabbage for higher income

Details of Technology

Crop: Cabbage

- Sowing during off season (May and June)

Parameters of assessment

i. Head size
ii.Yield
iii.BC ratio

Area : 2 ha.
No. of Demo. :8
No. of farmers :8
Location :
Karong, T. Khullen

Source: ICAR-Barapani, 2013

Frontline Demonstration (FLD)
PBG, FLD-1 (1st 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 assessment

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

Source: **ICAR-Manipur Center, 2010**

Frontline Demonstration (FLD)
PBG, FLD-2 (1st 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 assessment

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 :
T. Khullen, Toribari

Source: RARS, AAU, Shillongani, 2012

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

Title : Popularisation of biofortified maize var. HQPM 5

Details of Technology

Crop: Maize

- Var. HQPM-5,
- Duration-88-90 days,
- Potential yield-6t/ha

Parameters of assessment

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

Area : 3 ha.
No. of Demo. : 12
No. of farmers :12
Location :
Katomei, Makuilongdi

Source: IIMR,Punjab, 2011

Frontline Demonstration (FLD)
PP, FLD-1 (1st. 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 imidachlor[prid@0.3 ml/L

Parameters of assessment

i.% pest incidence
ii. Yield

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

Source: **VPKAS, ICAR, 2019**

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

Title : Integrated Pest Management for rice gall midge in kharif terrace fields

Details of Technology

Crop: Paddy

Used of resistance var. CAU R1,

i. Appln. Of aphaeres minuta or Beauveria bassiana 22g/L twice at 10 days intervals during tillering stage,

ii. iii. Soak seed in chlorpyriphos 20 EC @50ml/10 L water ,

iii. Spray thiamethoxam 25WG@100g/ha. at 20 days after transplant or apply phorate 10G @10kg or fipronil 0.3GR, @16-18kg/ha.

Parameters of assessment

i. Percent pest incidence

ii. Yield

Area : 2 ha.
No. of Demo. : 8
No. of farmers :8
Location :
Mayangkhang,
Tumuyon khulen

Source: CAU, 2013

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

Title : Integrated Pest Management of False army worm of Maize

Details of Technology

Crop: Maize

Seed treatment with thiomethoxam @ 4ml/kg seed,

i. Appln. Of neem oil @15ml/L,
ii. Appln. Of bio-agent metarhizium anisopliae 5g/L at 15-25 DAP,
iii. Appln. Of Emamectin @0.5ml/L when infestation reach ETL

Parameters of assessment

i. Percent pest incidence
ii. Yield

Area : 2 ha.
No. of Demo. : 8
No. of farmers : 8
Location :
Karong, Toribari, Khongnem

Source: CAU, Imphal, 2013

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

Title : Nursery rearing of fish spawn for fish fingerling production

Details of Technology

Crop: Fish (Grass carp)

Species: Grass carp
Stocking density: 15 lakh spawn/ ha.
Feeding: 5-10% body weight, twice a day

Parameters of assessment

i. Survival percentage
ii. Growth rate
iii. B:C ratio

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location :
Kontam, T. Khullen, Mayangkhang

Source: CAU, 2010

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

Title : Lime application for water quality management in composite fish culture

Details of Technology

- Lime application: @300kg/ha. (depending on the existing soil and water pH)
- Fish stocking density: 8000/ha , 40% (Catla), 20 % (Rohu), 40%(C.carp)

Parameters of assessment

i. Water pH
ii. Disease occurrence
iii. Yield

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location :
Leilon, Molhoi , L. Tangnaum

Source: ICAR, Barapani, 2013

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

Title : Performance assessment of Pengba in composite 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 assessment

i. Fish growth at monthly interval
ii. Fish yield

Area : 1 ha.
No. of Demo. : 10
No. of farmers :10
Location :
Hengbung, Makuilongdi, Karong

Source: COF, CAU, 2015

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

Title : Popularization of White Pekin under backyard rearing system

Details of Technology

Enterprise: Duckery

Breed: White Pekin

(White Pekin is a meat type duck)

Parameters of assessment

i.Live body weight gain in Kg (monthly)

Unit : 10
No. of Demo. : 10
No. of farmers :10
Location :
Toribari & Katomei villages

Source: ICAR, Nagaland (2012)

Frontline Demonstration (FLD)
Animal Science, FLD-2 (1st. 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 assessment

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

Unit : 10
No. of Demo. : 10
No. of farmers :10
Location :
Wainem
& T. Kuki village

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

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

Title : Provision of crate box for enhancing survivability of newly born piglet

Details of Technology

Enterprise: Piggery

T01:

Crate box

(A crate box is made with low cost locally available bamboo or wooden structures)

Parameters of assessment

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

Unit : 10

No. of trials :10

Location :

Keithelmanbi & Makhan villages

Source: ICAR, Shillong (2008)

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

Title : Impact assessment of FLD on performance of paddy demonstrated during last 5 years

Details of Technology

Crop: Paddy

- **Selection of farmers: Random sampling**
- **Technology gap:=Potential yield – Demo. Yield**
- **Extension gap:=Demo yield-farmers practices yield**
- **Extension index = technology gap/extension gapx X 100**

Parameters of assessment

i. Respondents profile
ii. Yield gap
iii. Problems faced by farmers

No. of respondents : 50 from adopted village
No. of Demo. : 5 vill.
No. of farmers :50

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 assessment

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

Area : 1 ha.
No. of Demo. : 2
No. of farmers : 2
Location :
Katomei/Willong

Source: ICAR, Lamphel, 2009

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

Title : Promotion of value addition of Oyster Mushroom (Dried mushroom, cookies and Pickle)

Details of Technology

Enterprise: Oyster Mushroom

- ✓ Dehydrated mushroom
  - -Blanching at 100ºC for 30 Sec and wash in cold water
  - -Dry in solar dryer for 4 days
- ✓ Cookies
- ✓ Pickle

Parameters of assessment

i. Shelf Life
ii. Acceptability (hedonic scale)
iii. BCR

Unit : 10.
No. of Demo. : 10
No. of farmers : 10
Location :
Motbung, Kangpokpi

Source: CFTRI-Mysore, 2015

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

Title : Popularization of Value addition of Kiwi fruit (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 (I:0.08:I)

Parameters of assessment

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

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

Source: CFTRI, Mysore- 2017

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

Title : Promotion of air layering technique for mass production of planting materials of plum

Details of Technology

Crop: Plum

- ✓ Selection of pencil size branches,
- ✓ Making incision and removal of barks (3 mm size),
- ✓ Application of rooting hormone (IBA) with sphagnum moss,
- ✓ Wrapping of rooting media with polyethylene foil and tied with a thread,
- ✓ After rooting, transplanting in primary nursery bag.

Parameters of assessment

1.Survival percentage

Unit : 3
No. of Demo. : 3
No. of farmers : 3
Location :
Mayangkhang, Purul

Source: COHF, Pasighat 2016

Extension Programmes/Activities for 2022

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 2022

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. 20/kg	95
Oilseeds	Soybean	Dsb 19	1.3	Rs. 30/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	1000	Rs.2/plant	15
	Broccoli	Green Magic	1000	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			**20500**		**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 2022

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	33	-	500
2.	Water sample	-	-	-	-	-
	Total	**300**	**500**	33	**-**	**500**

Mobile Advisory for 2022

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 2022

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 pulse	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 2022

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 2022

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
5	CIH, GoI, Medziphema	Sponsored training & information sharing.
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 2022 (contd.)

Sl. No.	Name of organization	Nature of linkage
10	DRDA, Senapati	Sponsored training, join discussion & meeting.
11	Planning Dept. Govt. of Manipur	Infrastructural support.
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/Intervention to be taken up under natural farming:

- ✓ At KVK Farm: Vegetable (Cabbage and Broccoli, Brinjal, Tomato etc.) cultivation under organic management system
- ✓ At farmers field: Turmeric and Ginger cultivation under organic management system

Area covered (in acre)

- ✓ At KVK Farm – 0.5
- ✓ At farmers field- 2

Expected benefits out of natural farming in the districts:

Organic products, healthy environment

Functional linkage with concern stakeholders:

Manipur Organic Mission Agency, Green Foundation Manipur, ICAR Institutes

Precision farming

Activities/Intervention to be taken up under natural farming:

- ✓ At KVK Farm: Precision farming of tomato and strawberry 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 – 0.5
- ✓ At farmers field- 1

Expected benefits out of precision farming in the district:

Higher productivity through optimum utilization of resources

Functional linkage with concern stakeholders:

ICAR Institutes

Thank You
(Thagatchari)