

Volume - X No. 1

NEWS LETTER

KRISHI VIGYAN KENDRA - SENAPATI

(Farm Science Centre)
Hengbung, P.O. Kangpokpi-795129, Senapati District, Manipur

www.kvksenapati.org

email: kvksenapati@gmail.com









From the Desk of Senior Scientist and Head

Dear Readers,

I take this pride in presenting this News letter (Vol. No. X, Issue No. 1) of Krishi Vigyan Kendra- Senapati (KVK), Manipur. It highlights the activities and achievements of KVK made during the period and other important events as well.

The year 2023 has posed a great challenge to the normal pattern of functioning of KVK in the wake of law and order issues since the early part of 2023 in the state of Manipur. Inspite of the hardship faced by KVK Staffs, we could, however, manage to achieve activities near to the approved annual targets of the year. I appreciate my entire staff for their commitment and dedication in discharging their responsibilities well.

I also express my gratitude to the editorial team for its diligent afford in bringing out this current News letter in a comprehensive form.

I hope this current issue of News letter will be of great help to the farming communities, students and other stakeholders. I sincerely welcome suggestions and advice from the readers for further improvement in the activities of KVK as well as in the presentation of News letter in future.

Dr. N. Jyotsna Senior Scientist & Head



CONTENTS

- 1. Scientific Advisory
 Committee Meeting and
 Training Programmes
 conducted
- 2. Frontline Demonstrations 2-3 (FLDs) Conducted
- 3. On Farm Testing (OFT) conducted
- 4. Other Demonstrations and Extention activities Conducted

4

Scientific Advisory Committee (SAC) meeting conducted:

The 28th Scientific Advisory Committee (SAC) Meeting of KVK, Senapati was held on 9th January 2023 at its conference hall. The

following were the salient recommendations of the meeting: To organize Skill training on button mushroom cultivation,

- To promote / popularize value addition in kiwi fruit and
- To take up On-farm testing on millets.

TO MARCH 2024: MANDATORY ACTIVITIES CONDUCTED DURING APRIL 2023

Training conducted:

a (Summary):

			•	
640	313	327	36	Total
425	190	235	27	Off - campus
145	123	92	9	On- campus
1				
Total	F	3	training	Type of training
nee	No. of trainee	7	No. of	
			illaly).	(Vibiling (Sulling)

	The state of the s
	The was Land and The Washington Management of the T
	THE RES
F	

	Nos. of trainee	trainee	Total
Type of Trainee	On- campus Off- campus	Off- campus	10101
Farmer & farm women	60	290	350
Rural youth	100	80	180
Extension functionaries	50	60	110
Total	210	420	640



=: Summary Vocational Training program for rural youth:

	Duration	No. C	No. Of Participants	ants
Training title	(days)		Total	
		×	П	-1
Different technologies on animal husbandry for farm women	7 days	1	20	20
Ornamental fish culture and aquascaping technique	6 days	10	10	20
Hydroponic farming system	6 days	10	10	20
Artificial flower making	6 days	1	20	20
Scientific seed production technique of rabi pilseed and pulses seed	6 days	ΟΊ	ഗ	10
Value addition of fruits and vegetable for income generation	6 days	1	20	20
Plant propagation methods and production of planting materials	6 days	8	12	0.7

(B) St n (FLD) and On-Farm Testing (OFT) conducted:

(b) Summary of Florit-Fille Defilotistiation (FED) and On-Farm (Some (Co. 1)			Total
Items	on crop	on livestock & other	5 \ <u>5</u>
OFT (nos. of technology)	5	(J)	1 8 √ 5
FLD (nos. of technology)	8	10	









(a) Details of FLD & OFT conducted : FRONT LINE DEMONSTRATIONS (FLD) on Crops conducted:

	_		_		_			
8	7	6	ΟΊ	4	ω	2	_	SI.
Farmers' perception towards natural farming	IPM of FAW on Maize	Integrated Pest Management of thrips and mite in Chilli	Popularization of Frenchbean var. Arka Anoop	Popularization of Tomato Var. Arka Abhed	Popularization of Broadbean var. Pusa Udit	Popularization of late sown rapeseed var. TS67 in rice fallow	Popularization of seed production technology of paddy var. RC Maniphou 12	Title of FLD
-	2	2	_	1	_	ω	ω	No./Area (Ha)
40 respondents	8	8	4	6	4	12	12	No. of Demonstra- tion
1	29.86	29.7	37.8	32.1	32.5	27	22.5	% age Increase in yield
1	1.86:1	3,48:1	2.81:1	3.51:1	2.91:1	1.77:1	1.88:1	Remarks (B:C ratio)

b FRONT LINE DEMONSTRATIONS (FLD) on Livestock and Other Entreprises:

		0000	ti chi inco.		
SI.	Title of FLD	No. of Demon- stration	Av. Net Return	% change	Remarks (B: C ratio)
	Popularization of Khaki Campbell under backyard rearing system	10	11,245	1	2.38:1
2	Feeding of growing piglets with AAUVETMIN for enhancing farm income	10	ı	30% reduction in mortality rate	1
ω	Deworming of Piglets for increasing income of farmwomen	5	-	27% reduction in mortality rate	
4	Popularization of low cost happa breeding of Amur carp	10	25,740	1	2.7:1
Q	Popularization of monosex Tilapia under monoculture system	10	2,71,000	-	1.95:1
6	Popularization of Pengba in composite fish culture	10	4,70,000	1	2.51:1
7	Promotion of osmotic dehydration of Pineapple for preparation of candy	10	1	49.12%	3.20:1
8	Popularization of Value addition of Kiwi fruit (Candy & Jam)	10	1	56.36%	3.33:1
9	Introduction of MPTS in existing farming system	2		ı	,
10	Promotion of Beejamrit and Jeevamrut on cabbage under natural farming	10	,	14.6	,









<u>c</u> ON FARM TESTING (OFT) conducted on crops, livestock and others:

the respondents know about millet crops (ii) Perception: 12% of the respondents perceived millet as climate resilient crop	spon- dents	Interview method	Farmer's knowledge and perception toward millets	10
Ci) Knowledge: 71% of		Kamrupa, a multi-coloured bird	Performance of Kamrupa poultry un- der backyard poultry rearing system	9
2.30:1	0 10	Srinidhi poultry dual purpose, 140-150 eggs per year	Performance of Srinidhi for Egg Production	8
3.00:1	თ	Monoculture of Magur Stocking density:50,000/ ha	Introduction of grow-out monocul- ture of Magur (Clarius batrachus)	7
2.30:1	C	Substrate for reinjuyour control boo pole Spacing of bamboo pole: 3x3 ft, Spreading of bamboo pole: 1/3 of pond surface	Periphyton based fish farming	6
3.20:1	ת ט	i.) Blue band@ 10/acre ii.) Application. of Bioagent (Beuveria bassiana) @ 5ml/I water three times at 10 days interval	Organic management module for insect transmitted virus (aphid/thrips/whitefly) in king chilli (CVMV & CMV)	51
1.75:1	U	Application of Azoxystropin + Difenoconazole at 0.1% at tillering and boot stage	Management of blast disease in rice	4
1.78:1 (RC Maniphou 15)	u G	Rice var. RC Maniphou 15, RC Maniphou 16 & RC Maniphou 13	Performance assessment of rice	ω
1.72:1	4	Soybean var. MACS 1460	Performance of Soybean var. MACS	2
2.57:1	4	Garden pea var. Kashi Ageti	63.5	_ No.
Remarks (B:C ratio)	Nos. of trials	Technology	Title of OFT	<u>s</u> (c
			ON FARM - FO	



















(C) Seed Materials produced:

Item	Crop	Variety	Quantity produced (t)	Value (Rs.)	Qty Supplied/ Provided
5	D.C.P	CAU R1	1.3	39000	to (No. of farmers)
Cereals	Rice	CAORI	1.3	39000	II (48)
	Soybean	Dsb 19	0.5	30000	0.4t (24)
Oilseeds	Groundnut	ICGS-76	0.5	40000	0.4t(16)
Pulses	Blackgram	PU 31	0.3	27000	0.2t (10)
	Turmeric	Lakkadong	8,5	127500	8t (16)
Spices	Ginger	Nadia	4	120000	3.5 t (7)
	Total		15.1 t	383500	

(D) Planting Materials produced:

				Forest sp.						Vegetables			Spices		Fruits		Item
Total	Acacia glouca	Parkia roxburghii	Phoebe hainensiana	Cassia javanica	Terminalia myriocarpa	Mimusops elengii	Cinamomum tamala	Tectona grandis	King Chilli	Tomato	Cabbage	Broccoli	Large cardamom	Citrus	Kiwifruit	Pomegranate	Crop
	MPTS	MPTS	MPTS	Ornamental	MPTS	Ornamental	MPTS	MPTS	Local improved	Arka Rakshak	Rare ball	KTS-1 & Pushpa	Ramsay & Golsay	Aurintifolia	Allision, Monty,	Bedena	Variety
	2000	4000	400	3000	1400	1000	2000	600	9000	6500	10000	4500	. 7500	6000	1200	1000	Quantity produced (No)
328400	8000	20000	800	15000	7000	4000	10000	3600	63000	13000	20000	18000	75000	30000	36000	5000	Value (Rs.)
53600 (290)	1700 (18)	3600 (35)	300(8)	2500(25)	1000(10)	800(8)	1800(4)	500(2)	8000 (40)	6000 (30)	9000 (30)	4000 (20)	7000 (30)	5500(15)	1000 (10)	900 (5)	Qty. Supplied/ Provided to (No. of farmers)

(E) Publications of KVK:

Item	Nos.	Title and Name of Journal
Research papers	_	Study on status of small scale pig rearing in upland tribal areas of North East India, N. Muhindro Singh. Journal of Livestock Science. 14:47-52
Training manuals		Training Manual on low cost fish breeding in happa by Dr. Hoilenting
Popular articles	ω	IFS Model: An emerging vocation for income generation in the hills, R.S. Telem, N. Jyotsna, Deepak Kumar, AgriGate, 3 (7):50-54 Success Story On Piglets Production: A Lucrative Enterprise, R.S. Telem, N. Muhindro Singh, N. Jyotsna, Deepak Kumar and Y. Kennedy, Agrigate, 3(8):88-90
		Deebay Vallar and Historical 1. 3. 3. 3. 3. 3. 3.
Newspaper coverage	4	Anti-Rabies Vaccination Camp, Launching programme of Viksit Bharat Sankiap Yatra, SAC meeting, Swacchta Pakhwada
News letters	_	KVK Newsletter 2023
	100	Seed production of millets by Dr. T. Ratan Singh
	100	Value addition of millets by Nemnu Hangshing
paflots /foldows /	100	Preparation of Mushroom pickles and cookies by Nemnu Hangshing
-callets/folders (copies)	100	Backyard poultry rearing by Dr. N. Muhindro Singh
	100	Organic Insect pest management methods by Dr. David Kamei
	100	Organic manuring in ginger by Kh. Nodiyachand Singh
TOTAL	610	

(F) Bio- products produced:

Name	Products	Quantity (Kg)	Value (Rs
Bio- fertilizer	Vermi-compost	2000	
Mushroom (Oyster)	Spawn	600	
	Total		

(G) Livestock & Fingerling produced:

275000		Total	
150000	100000	Fingerlings	Fish
115000	38 nos.	Piglets	Livestock
Value (Rs)	Quantity	Product	Name

(H) Extension Activities conducted:

Programme/ Activity	Nos.	Beneficia- ries (nos.)
Advisory services	235	240
Field day	3	120
Group meeting	12	285
Film show	8	260
Scientists visit to farmers fields/Diagnostic visit	154	320
Farmer visit to KVK	180	280
Animal Health camp	2	320
Ex-trainee Sammelan	ω	
Celebration of important days	6	428
Method demonstration	22	210
Exposure visit	50	60
Electronic media (CD/DVD)	3	
Extension literature	7	1
Newspaper coverage	12	
Radio talk	8	
Soil health camp	_	50
Awareness camp/mela	2	150
Campaign	2	116
Lecture delivered as resource person	22	440
PRA	4	80
(1) Otation of December 1 L (1) 1)		











(I) Status of Revolving Fund (RF):

	1.05	7	8.0602		Total	
	0.75	Ŋ	5.75		Agri inputs & Others	≓
8.0602	0.15	1	1.15	7.01062	Fishery	=:
	0.15	1	1.15		Livestock	
Net balance as on 31st Dec' 2023	Net In- come (Rs. In Lakhs)	Expenditure during the year (Rs. In Lakhs)	Income during the year (Rs. In Lakhs)	Opening balance Income during as on 1st January, the year (Rs. In 2023 Lakhs)	Activities under RF	No.

\subseteq Sponsored programme undertaken by KVK from different sources other than ICAR:

Activity/ Enterprise	Source(s)/ Funding Agency
Participatory piglet production through women SHG in Kangpokpi district, Manipur NABARD, Manipur	NABARD, Manipur
Three days training programme on Scientific pig production practices and value addition of pork for pig farmers of Manipur at ICAR-NRC pig, Rani, Guwahati	NABARD, Manipur
Skill development and hand holding training programme on Agri Horti livelihood activities for displaced person settled at Hengbung relief camp Kangpokpi	MOMA, Dept. of Horti & Soil Conservation, Manipur.

$\widehat{\Sigma}$ Special programs undertaken:

Nutri Sensitive Agricultural Resor

(1)	c Agricultural r	ivani Constitute Agricultural nesource and innovation (NARI):	novation (i	VAHI):
Activities	Area / unit	Name of village	Beneficia- ries (no)	Remark
Establishment of	6 (3 units in	T. Khullen and	6	Khari
Nutri- garden	each village)	Mayang khang		-Rabi
Demonstration on	4 nos	T. Khullen and	21	vegeta
nutri- gardening		Mayang khang		bles
Training & Aware-	4 nos	T. Khullen and	80	fruits
ness program		Mayang khang		
Establishment	1 unit	T. Khullen	6	
of unit for value				
addition in fruit &				
ACACIADIC2				
Demonstration on Value addition in	1 no.	T. Khullen	21	
fruit and vegetables				









;: Mera Gaon Mera Gaurav (MGMG):

Activities	Nos	Beneficiaries (nos)
Awareness program	3	16
Training	2	96
Farmer meeting	з	47
Demo on Vegetable production	4	4
Demo. On bee- keeping	5	5
Demo. On poultry	10	10
Demo. On fishery	591	5

₽ **Natural Farming:**

1 acre 5.9 acre 8 Finger millets 14.2 Considering the farming situation of Senapati district, Natural farming has a huge scope for promotion	Area covered at KVK farm	Area covered Area covered at at KVK farm Farmer's field	Nos. of Demonstration	Crops demonstrated	Yield (q/ha)	Remarks
162.5	1 acre	5.9 acre		Finger millets	14.2	Considering the farming
				Cabbage	162.5	situation of Senapati district, Natural farming has a huge scope for promotion

\Box Clustered Front Line Demonstration (Pulses):

				_	
Enter- prise		Field pea	Total		
(ha)		2	2	A	A
of dem- onstra- tion	onstra- tion	Οī	5	ctivities under N	Activities under Natural Farming
		Aman		latural Farming	latural Farming
н Yiel	I	11.82			
Yield (Qt/Ha)	Г	10.63			
A A	Α	11.12			
of local Check (Qt/ha)	(Qt/ha)	9.35			
crease %	%	21			
Cost (Rs/ ha)	ha)	45420		CFLD (PL	CFLD (Pulses)
Return (Rs/ ha)	ha)	83400	T. C. C.	lses)	ilses)
Return (Rs/ha)		37980			
Ratio (GR/ GC)	GC)	1.83:1			de









≅ Clustered Front Line Demonstration (Oilseeds):

			_		
Crop Enter- prise		Soybean	Ground	Rapeseed	Total
Area (ha)		20	10	20	50
dem- on- stra-	TION	50	25	50	125
variety		Dsb 19	ICGS 76 12.54 10.42 11.48	TS37	
H Yiel		15.27 10.88	12,54	8.22	
Yield (Qt/Ha) H L A		10.88	10.42	7.56	
Ha)		14.05	11.48	8.12	
of local Check (Qt/ha)		11.25	8.52	6.32	
crease		25	34	28	
Gross Cost (Rs/ ha)		45845	57760	32456	
Gross Return (Rs/ ha)		84300	97580	56840	
Net Return (Rs/ha)		38455	39820	24384	
B:C Ratio (GR/ GC)		184.1	1.7:1	1.75:1	1







Ē Soil Testing/ Soil Health Cards (SHCs):

	2. W	1. Sc	No.
Total	Water sample	Soil sample	salliples tested/ Allalysed
300	108	192	NOS.
460	65	395	beneficiaries
26	6	20	village covered
395	1	395	Village covered Sincs issued to larmers (Nos.)

9 Activities undertaken under MISSION LIFE:

32	01/06/2023	Awareness programme on Rain water harvesting	ω
30	30/ 05/2023	Workshop on Climate Resilient Crop	2.
34	20/05/2023	Campaign on Soil Health Management	1.
No. of farmers covered	Date	Activities	SI.No.







Awareness programme on Rain water harvesting

Patron:

Mrs. Kimjaneng Kipgen Secretary, FEEDS, Manipur

Chief Editor:

Dr. N. Jyotsna Senior Scientist and Head KVK-Senapati

- Subject Matter Specialist (Vety. & AH) Dr. N. Muhindro Singh
- Mr. Deepak Kumar Subject Matter Specialist (AE)
- ≓ Subject Matter Specialist (PBG) Dr. Telem Ratan Singh

- Subject Matter Specialist (Hort.) Mr. Kh. Nodiyachand Singh
- Dr. David Kamei
- Subject Matter Specialist (PP)
- Ħ Mr. Kangjam Homen Singh Farm Manager
- Programme Assistant (H.Sc.) Mr. Athokpam Brojendro Singh Ms. Nemnu Hangshing
- Programme Assistant (Agro-Foresty)