



ANNUAL PROGRESS REPORT

2025

Krishi Vigyan Kendra

Bishnupur District, Manipur

AN ISO 9001:2015 Institute

KSRK2512777106

Host Organisation:

Utlou Joint Farming-Cum-Pisciculture Co-operative Society Ltd.

Estd: September, 2003.

Presented by

Dr. Kh. Brajamani Meetei

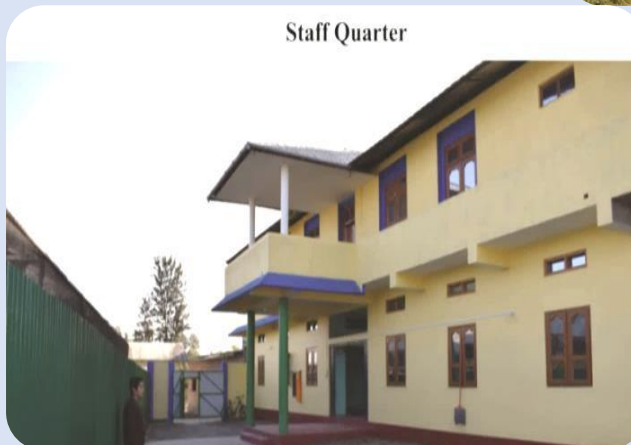
Sr. Scientist & Head

Present Staff Position

Sl. No.	Name	Designation	Date of joining	Discipline
1	Dr. Kh. Brajamani Meetei	Sr. Scientist & Head	01-9-2021	Fishery
2	Dr. P. Bijaya Devi	SMS	1-9-2004	Horticulture
3	N. Bandana Devi	SMS	1-9-2004	Home Science
4	Kh. Maipak Singh	SMS	02-05-08	Plant Protection
5	Dr. A. Tarajit Singh	SMS	02-05-08	Agril. Extn.
6	Dr. Sakhen Sorokhaibam	SMS	6-5-2010	Agronomy
7	P. Bidyananda Singh	SMS	10-01-22	Soil Sc.
8	Dr. Pebam Chandrima Devi	Prog. Asstt.	18-12-2024	Animal Sc.
9	Th. Shachimohon Singh	Prog. Asstt.	2-9-2003	Computer
10	Mahesh Maibam	Farm Manager	18-05-22	Agriculture
11	L.Dinachandra Singh	Accountant	1-9-2004	Non-technical
12	E. Ricky Singh	Stenographer	1-7-2025	Non-technical
13	L. Boboshana Singh	Driver	1-9-2004	Technical
14	L. Doren Meetei	Driver (heavy)	2-9-2003	Technical
15	Th. Sanjoy Singh	SSG-4	2-9-2003	Non-technical
16	Th. Sanjit Singh	SSG-4	21-6-2009	Non-technical

INFRASTRUCTURE FACILITIES

S. No	Infrastructure	Completion Date
1	Administrative Building	6 th Sept. 2006
2	Farmers Hostel	2 nd August 2007
3	Staff Quarters (6)	2013
4	Demonstration Units (2)	2011
5	Fencing	10 th June 2006
6	Rain Water harvesting system	2011
7	Soil Testing Lab	2013
8	Mini food processing machine	2016
9	Vehicle	✓ (Running)
10	Tractor	✓ (Running)



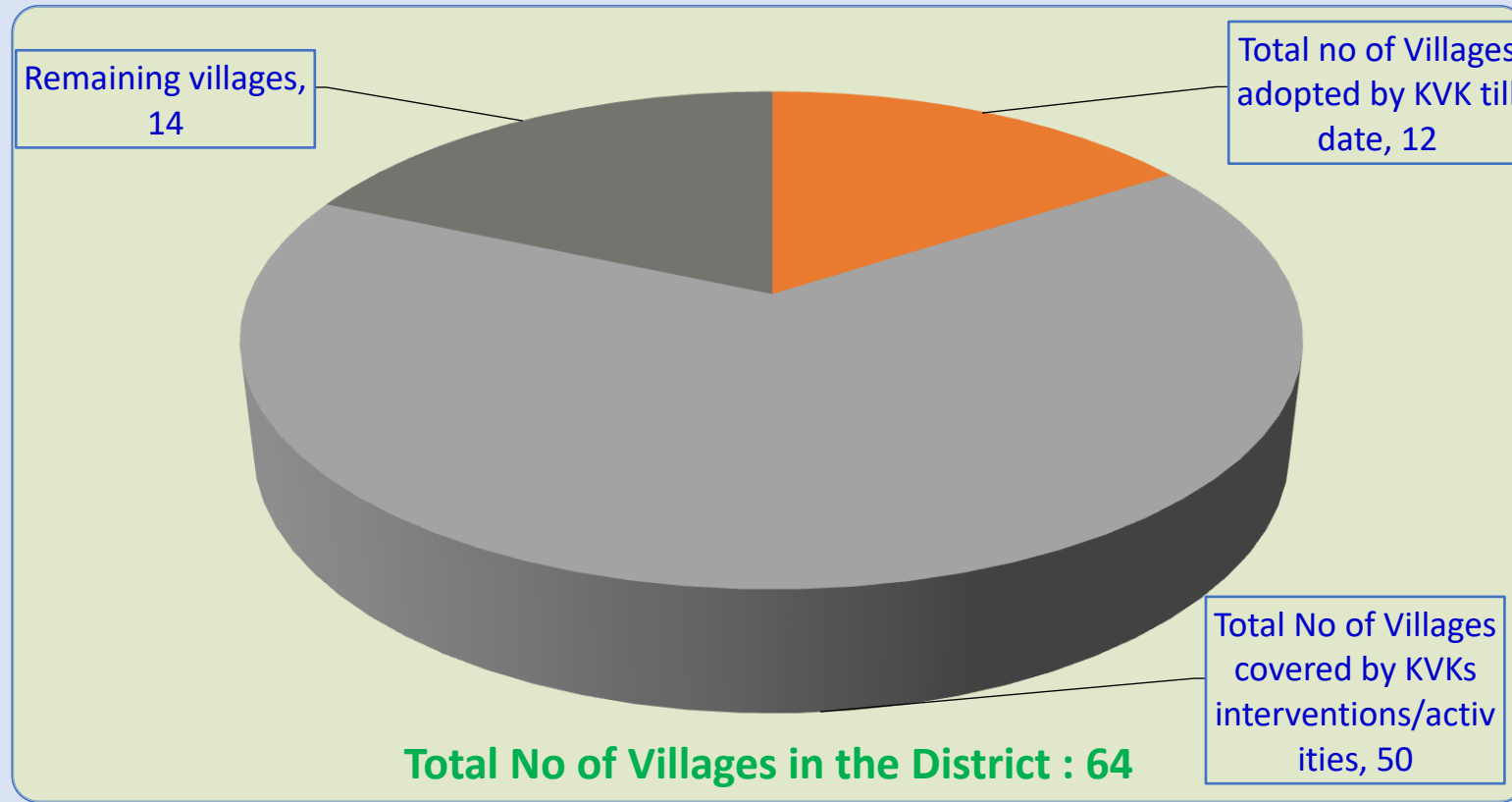
Demonstration Units



Details of Villages

in Bishnupur District

Sl No.	Total No of Villages in the District	Total no of Villages adopted by KVK till date	Total No of Villages covered by KVKs interventions/activities	% of Villages Covered based on Col. ii & iv
I	II	III	IV	V
1	64	10+2	50	78



ACTION TAKEN REPORT

Sl.	Suggestions/recommendations	Action taken
1.	Dr. A.K. Singha, Principal Scientist, ATARI Zone-VII through online urge to present Action taken report of previous year and annual report before presenting the Annual action plan for 2025.	Action was taken
2.	Prof. Th. Robindro Singh, Deputy Director, CAU, Manipur Centre suggested SMS-Horticulture to recheck the BC ratio regarding OFT on Varietal performance of garden pea was found high. He further mention that SMS Plant Protection should check the spraying of insecticide at 30 days after transplanting for controlling fruit borer. He also suggests SMS Soil science to check the BC ratio of OFT on assessment of micronutrient in tomato cultivations and to check the technology regarding FLD on lowcost vermicomposting technology. He further suggest SMS Agronomy on CFLD programme for introducing new rapeseed variety for Annual report 2024.	BC Ratio on garden pea was rechecked. The sprayed of insecticide was reexamined. Similarly the suggestion of SMS-Soil Sc. and Agronomy were rechecked.
3.	Dr. L. Laishana Devi, A.O (S), Department of Horticulture & Soil Conservation, Govt. Of Manipur, urge to SMS Plant Protection should check the spraying of insecticide at 30 days after transplanting for controlling fruit borer and suggest spraying of insecticide Spinosad for controlling fruit borer for Annual Report 2024. She also suggested SMS Soil Science to provide awareness and training programmes on Nano Urea applications.	Accordingly the action was taken.
4.	Dr. L. Arjun Singh, District Veterinary Officer, Bishnupur, Govt. Of Manipur, urge PA-Animal Science to take up to take awareness regarding OFT on wound management treatment in livestock.	It was reevaluated and thus Action was taken.
5.	Shri Pukhrambam Boicha Meitei, DDM, NABARD, Bishnupur, urges KVK Bishnupur to create model village for further expansion.	Model village was established.
6.	Shri L. Amumacha Singh, Progressive Farmer, Leimaram, Manipur Centre, urge SMS-Agronomy to include Sweet corn cultivation in OFT and provide training programme on cultivation of sweet corn.	Action was taken
7.	Smt N. Arundayanti Devi, Progressive Farmer, Oinam, Manipur, urges KVK Bishnupur to give emphasis on integrated farming system.	Action already taken.

Extension Programmes/ Activities

Extension Activity	Programme/Activity			Beneficiaries		
	Target (No.)	Achievement (Nos.)	% achievement	Target (Nos.)	Achievement (Nos.)	% achievement
Celebration of Important days	10	8	80	500	1200	226
Exposure visit	3	3	100	50	80	160
Success stories/ Case studies	6	8	>100	-	-	-
Kisan Mela	1	1	300	200	350	175
Farmers Visit to KVK	10	8	80	700	544	78
Scientist visit to farmers field	50	36	72	100	96	96
Farmers' Seminar	1	1	100	25	25	100
Field day	3	2	66	45	30	66
Soil Health Camps	6	4	66	100	45	45
Animal Health Camps	6	4	66	250	120	48
Workshop/ Seminar	2	2	100	100	60	60
Soil Testing	12	10	83	500	596	119
Water Testing	12	8	67	100	120	120



Publications of KVK (2025)

Research papers : 17 Nos.

Title
1.Nonconventional Feed Resources for Sustainable Aquaculture: A Review. <i>Biological Forum: An International Journal</i> , 17(3), 73-77. (NAAS score: 4.96). : Meetei, K.B., Nongmaithem, B.D., & Ngangbam, A.K.
2.Bacteriophage Therapy for Sustainable Management of Bacterial Diseases in Aquaculture. <i>Journal of Advances in Biology & Biotechnology</i> , 28(3), 806-813. (NAAS score: 5.3) : Meetei, K.B., Nongmaithem, B.D., Khundrakpam, L., Lenin, L., & Ngangbam, A.K.
3.Aquafeed Innovation: Utilization of Molluscan and Crustacean By-Products for Sustainable Fish Nutrition. <i>Journal of Experimental Agriculture International</i> , 47(3), 349-356. (NAAS score: 5.14): Meetei, K.B., Nongmaithem, B.D., & Ngangbam, A.K.
4.Cost-effective formulated fish feed enhances protein accumulation in <i>Labeo rohita</i> fingerlings: A comparative nutritional study. <i>Journal of Basic and Applied Research International</i> . (NAAS score: 4.50): Meetei, K. B., Nongmaithem, B. D., & Ngangbam, A. K.
5.Evaluation of Antioxidant Properties in Three Commercially Important Edible Insects from Manipur. <i>Journal of Advances in Biology & Biotechnology</i> , 28(5), 345-352. (NAAS score: 5.3) : Sanjenbam, R., Chanu, Y.L., Nongmaithem, B.D., Ngangbam, A.K., Meetei, K.B. & Singh, O.L.
6.Nutritional and Ethno-medicinal Insights into Freshwater Snail, <i>Brotia costula</i> (Rafinesque, 1833): Consumer Perceptions and Functional Food Potential in Manipur, India. <i>Journal of Advances in Biology & Biotechnology</i> , 28(7), 758-766. (NAAS score: 5.3): Singh, L.L., Nongmaithem, B.D., Khundrakpam, L., Chanu, L.P., Meetei, K.B., & Ngangbam, A.K.
7.Bioactive Metabolite Profiling of <i>Brotia costula</i> : Linking Traditional Knowledge with Modern Analytical Evidence. <i>Annals of Biology. In Press</i> . (NAAS score: 4.68). IF: 0.32. Scopus Indexed.: Singh, L.L., Khundrakpam, L., Nongmaithem, B.D., Chanu, L.P., Meetei, K.B., & Ngangbam, A.K.
8.Cybister tripunctatus Bioactive Metabolite Profiling in Manipur, India. <i>Journal of Biology and Nature</i> , 17(2), 557-564. :Chanu, Y. L., Sanjenbam, R., Huidrom, S., Nongmaithem, B. D., Ngangbam, A. K., Singh, O. L., & Meetei, K. B.
9.Role of <i>Puntius sophore</i> (Hamilton, 1822) in Small-Scale Fisheries, Rural Livelihoods, and Traditional Knowledge Systems. <i>Asian Journal of Current Research</i> , 10(4), 136-141.: Bipinchandra, U., Nongmaithem, B. D., Meetei, K. B., & Ngangbam, A. K.

Publications of KVK (2025)

Research papers : 17 Nos.

Title
10. Effect of Silkworm Pupae Meal on Proximate Composition and Nutritional Quality of Tilapia Flesh. Journal of Agriculture and Ecology Research International, 26(5), 70-75. :Singh, M. J., Chanu, T. A., Meetei, K. B., Devi, B. L., & Ng, A. K.
11. First functional and taxonomic insights into the microbiome of edible snail, <i>Cipangopaludina lecythis</i> via shotgun metagenomics. Antonie van Leeuwenhoek. NAAS -7.8; IF: 1.8.: Ngangbam, A. K., Nongmaithem, B. D., Haojam, R. S., Khundrakpam, L., Singh, L. L., & Meetei, K. B.
12. Impact of nutrient management and zero-till crop establishment on rapeseed performance in rice-fallow ecosystems: Evidence from CFLDs in Manipur. International Journal of Research in Agronomy. 2025; SP-8(11): 309-312: Sakhen Sorokhaibam, KH Brajamani Meetei, N Anando Singh, Kh Maipak and P Bidyananda
13. Impact of improved groundnut production technologies through cluster frontline demonstrations in Bishnupur District of Manipur. 2025. International Journal of Research in Agronomy 2025 ; SP-8(11):305-308: Sakhen Sorokhaibam, KH Brajamani Meetei, N Anando Singh, Kh Maipak and P Bidyananda.
14. Evaluation of new generation herbicides for efficient weed management in Lentil (<i>Lens culinaris</i> Medik.) under rainfed condition of North East India and International Journal of Research in Agronomy ; 8(11): 852-855: N. Anando Singh and Sakhen Sorokhaibam
15. Efficacy of herbicide management practices on weed control, growth and yield of chickpea (<i>Cicer arietinum</i> L.) under rainfed condition of North East India and International Journal of Research in Agronomy; 8(11): 856-859 :N. Anando Singh and Sakhen Sorokhaibam
16. Integrated soil fertility strategies for improved yield: A comprehensive review (2025). <i>International Journal of Research in Agronomy</i> ,8(8): 151-160: P. Bijaya Devi(2025)
17. Economic viability and traditional cultivation practices of Chinese chives(<i>Allium tuberosum</i> Rottler ex. Sprengel) in Bishnupur District, Manipur, India (2025). <i>Journal of Scientific Research and Reports</i> ,31(10) : 910-916: P. Bijaya Devi(2025)

Publications of KVK (2025)

Item	Nos.	Title
Article	3	1. P. Bijaya Devi(2025), Maximizing cropping intensity of a vegetable farm for high income generation. <i>Agriculture Bulletin</i> : 1(5) 2. P. Bijaya Devi(2025), Vegetable farming as a livelihood security for an Unemployed rural youth . <i>Agriculture Bulletin</i> : 1(10) 3. P. Bijaya Devi(2025), Vigyanic oiba maong da Awa-phadigom(<i>Eryngo- Eryngium foetidum</i> L.) thaba amasung sendong. Huieyen Lanpao, 17th June
Success story through ICAR Website	4	1.Yard Long bean variety Arka Mangala brings high returns to Manipur Farmer. https://www.icar.org.in/en/yard-long-bean-variety-arka-mangala-brings-high-returns-manipur-farmer 2. Redefining Onion cultivation in Manipur: The Success story of Arka Kalyan. https://icar.org.in/en/redefining-onion-cultivation-manipur-success-story-arka-kalyan 3. Demonstration of Improved Chilli varieties 'Arka Khayati'and 'Arka Meghana' in Bishnupur District Manipur https://icar.org.in/en/demonstration-improved-chilli-varieties-arka-khayati-and-arka-meghana- 4. Arka Bhanu (F1) Marigold cultivation Transforms livelihoods in Bishnupur District, Manipur. https://icar.org.in/en/arka-bhanu-f1-marigold-cultivation-transform-livelihoods-bishnupur-district-manipur
Newsletter	1	Newsletter 2025
Leaflet	10	* Management of pig farming, *Rabies, *Crop Alley, *Rodent and its prevention, *Fall Army Worm, *Scientific cultivation of Eryngo, *Plantation of Massor, *Health Benefit of pineapple, *Boosting fermented fish production, *Introduction of pond recirculatory (IPRS) of fish farming

Seed Materials produced during 2025

Item	Crop	Variety	Target (q)	Quantity produced (q)	% achievement	Value (Rs.)	No. of farmers
Cereals	Rice	Rice var. RC Maniphou -12	30	38	>100	152000	47
		Rice var. RC Maniphou 7	30	43	>100	172000	53
		Rice var. RC Maniphou 13	20	41	>100	164000	51
		Rice var. CAUR-1 (Tampaphou)	15	25	>100	100000	31
Oilseeds	Groundnut	Girnar-3	5	8	>100	80000	10
	Soybean	DSb-19	-	2	>100	16000	5
	Mustard	NRCHB-101	5	2	40	20000	10
Pulses	Blackgram	PU-31	-	2	>100	18000	10
	Field pea	Rachna	5	2	40	16000	2
		Aman	5	2	40	16000	3
Vegetables	1. Broadbean	Local	1	0.85	85	12,750	10
	2. Garden pea	Local Hawai tharak makhyat mubi	0.5	0.5	100	25,000	-
	3, Cauliflower	Local Tha anima khai chabi	-	0.07	-	49,000	-
	TOTAL		116.5	166.42		8,40,750	232

Seed Production



Planting Materials produced in 2025

Item	Crop	Variety	Target (No)	Quantity produced (No)	% achievement	Value (Rs.)	(No. of farmers)
Vegetables	Broccoli	Green Magic	5,000	5500	>100	7000	20
	Cauliflower	Sweta and Local Tha-animakhaiChabi	5,000	5750	>100	5200	25
	Cabbage	Green Express and Rareball	10,000	13,550	>100	7000	33
	Cucurbits	Watermelon F1-Madhuri, Ridge gourd F1-BTL -01	1,000	750	75	3750	50
	Tomato	NS-501, Arka Abhed, Arka Rakshak, Arka Samrat	10,000	10950	>100	10,000	12
Spice	Chilli	Barnali, Arka Khyati, Arka Meghana	10,000	13,450	>100	3350	16
	Onion	Arka Kalyan, Arka Bheem & Prema,	50,000	52,500	>100	5250	10
Total			91,000	1,02,450		41550	166



Fish seed products

Item	Product Name	Species	Proposed quantity / Target		Quantity produced		% achievement	Value (Rs.)	Qty supplied and No. of farmers	
			No.	Kg.	No.	Kg.			No.	Kg.
Livestock strains/ fingerlings (Nos. in lakh)	Spawn	IMC & Exotic carp	1600	x	1255	x	78.4	7,53,000	126	
	Fry	IMC & Exotic carp	12.0 lac	x	8.50	x	70.83	6,80,000	500	
	Fingerlings	IMC & Exotic carp	16.0 lac	x	9.0 lac	x	56.25	18,00,000	450	

Distribution of inputs to the farmers of Bishnupur district



Soil & Water Testing/ Soil Health Cards (SHCs) during 2025

Sl. No.	Samples tested/ Analysed	Sample (No.)	Farmer beneficiaries	Village covered	Amount realised (Rs.)	SHCs issued to farmers (Nos.)
1.	Soil sample	142	320	10	35500	320
2.	Water sample	120	120	30	18000	120
	Total	262	440	40	53500	440



Soil testing



Soil Collection

Status of Mobile Advisory during 2025

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	350	2300	20	235	12	3540	-	-	70	3540	-	-	102	3540
Voice only	470	300	55	86	-	-	-	-	27	67	-	-	82	153
Voice and Text both	150	90	36	59	-	-	8	12	-	-	55	40	99	111
Total	970	2690	111	380	12	3540	8	12	97	3607	55	40	283	3804

Status of Revolving Fund (RF) during 2025

Rupees in lakhs

Sl. No.	Activities	Opening balance as on 1 st Jan, 2025	Income during the year	Expenditure during the year	Net balance in KVK as on 31 st Dec., 2025
1	Paddy seed production, Planting materials, Fish seed production	10.37	6.32	5.81	10.88
	Total	10.37	6.32	5.81	10.88

Revenue(R) generation by KVK from different sources other than ICAR during 2025

Sl. No.	Activity/ Enterprise	Source(s)/ Funding Agency	Revenue generation (Rs.)
1.	Animal feed production unit	Host Institute	200000
2.	Livestock/fishery production	Host Institute	800000
3.	Experimental farm (Rice Crop)	Host Institute	6000
4.	Seed processing unit	Host Institute	70000
5	Planting materials	Host Institute	15000
6	Bioproduct (Vermicompost)	Host Institute	6000
		Total	1097000

Functional Linkages established with different Organizations during 2025

Name of organization	Nature of linkage
Dept. of Agriculture, Horticulture and soil conservation, Animal Husbandry & Fishery, Bishnupur, Govt. of Manipur	Seeds & Fertilizer, Vegetable seeds and planting materials, trainings etc.
IGNOU	Programme Post graduate diploma in food safety and quality management.
ICAR-CIFE, Mumbai	Training
ICAR-IIHR, Bangalore & ICAR-NRIIPM, New Delhi	NEH Component programme
Lovely Professional University, Punjab	Training & Internship
Kumbi College, Kumbi	Training & Internship

Awards and recognitions during 2025 (For Farmer)

Sl. No	Name of Award/ recognition/ fellowship	Professional Society/ Dept./ Agency	Govt. Any	Value of award (Rs.)	Significant achievement Contribution/
1.	Shri Chongtham Khogendro Singh- Award of Excellence Innovative Farmer- 2025	ICAR-IIHR, Bengaluru		Citation & Memento	Outstanding contributions by adopting technologies developed by the Indian Institute of Horticultural Research and promoting sustainable horticulture through innovative practices in the Region.
2	Shri Ningthoujam Ingocha Singh – 2 nd Best Farmer Award ,2024-25	SAMETI, Dept.of Agriculture, Govt. of Manipur		20,000	Excellence performance in cultivation of horticultural crops.
3.	Mr. Takhellambam Bungnao Singh- ICAR-IIHR Innovative Farmer Award - 2025	ICAR-IIHR, Bengaluru		Citation & Memento	Outstanding contributions by adopting technologies developed by the Indian Institute of Horticultural Research and promoting sustainable horticulture through innovative practices in the Region.



Awards and recognitions during 2025 (For KVK)

Sl. No	Name of Award/ recognition/ fellowship	Professional Society/ Govt. Dept./ Any Agency	Value of award (Rs.)	Significant achievement Contribution/
1	Dr. Sakhen Sorokhaibam Best Extension Worker Award 2025	Society of Agricultural Research and Social Development, New Delhi	Certificate only	Outstanding contribution in the field of Agronomy
2	Dr. Pangeijam Bijaya Devi , SMS- Horticulture conferred with Best KVK Professional Award (2024 -25)	ICAR- ATARI Zone – VII, Umiam Meghalaya	Citation & Memento	Outstanding professional excellence and exemplary contributions in disseminating location specific, cutting-edge agricultural technologies, fostering farm innovations and delivering impactful extension services to the farming communities in Bishnupur district, Manipur.
3	Dr. Pangeijam Bijaya Devi, SMS- Horticulture Placed 1 st (first) in oral presentation during International Conference (ICUUF-2025)	MIU, Imphal, Manipur	Citation & Rs.2000	Oral presentation on Yield performance of Farmers' varieties registered under PPV & FRA from Bishnupur District Manipur.



Live Phone in programme of AIR & DDK, IMPHAL and Field programme coverage by DD Manipur



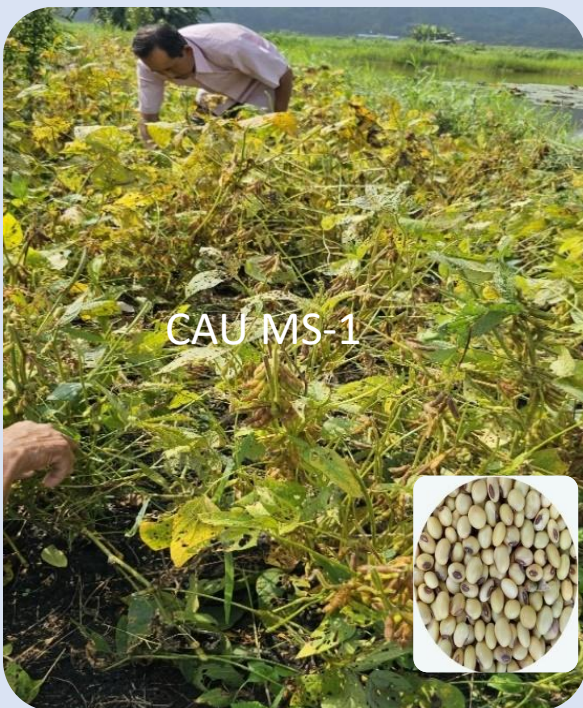
Special Programmes

Sl. No.	Name of program	Duration and Date	No. of participants		
			M	F	Total
1	Viksit Krishi Sankalp Abhiyan	29 th May to 12 th June	9020	4626	13646
2	International Yoga day	21 st June	8	12	20
3	PM-Kisan Diwas & Release of 20 th Installment under PM-Kisan Samman Nidhi Yojana	2 nd August	85	111	196
4	Swachhta Hi Seva campaign	18 Sept to 2 nd October	125	140	265
5	Pradhan Mantri Dhan Dhanya Krishi Yojana (PM-DDKY)	11 th October	86	94	180
6	Webcasting Release Ceremony of the 21 st Installment of PM-KISAN Samman Nidhi	19 th November	58	47	105
7	Janjatiya Gaurav Diwas during	1 st to 15 th November	120	150	270
8	Celebration of 150 years of Vande Mataram	7 th November	12	16	28
9	World Soil Day	5 th December	35	40	75



CFLD (Oilseeds)

Crop	Variety	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/ha)	% increase/ change in avg. yield over local %	Gross Cost (Rs/ha)/(Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) /(Rs./ Unit)	B:C Ratio (GR/GC)
		H	L	A						
Groundnut	CAU GS-1	16.89	10.52	15.55	12.35	25.91	48500	155500	107000	3.21:1
Soybean	CAU MS-1	14.80	8.90	13.85	11.55	19.91	40200	124650	84450	3.10:1



CFLD (Oilseeds)

Crop	Variety	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/ha)	% increase/ change in avg. yield over local %	Gross Cost (Rs/ha)/(Rs. / unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) /(Rs./ Unit)	B:C Ratio (GR/GC)
		H	L	A						
Rapeseed	TS-38	9.87	7.28	9.65	6.82	41.49	34500	96500	62000	2.79:1
Sunflower	Suryakiran	16.20	10.30	14.50	9.50	52.63	50300	145000	94700	2.88:1



CFLD Rapeseed var, TS-38



CFLD (Maize)

Crop	Variety	Demonstration Cob Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	Gross Cost (Rs/ha)/(Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha) /(Rs./ Unit)	B:C Ratio (GR/GC)
		H	L	A	(Qt/ha)	%				
Maize	Sweet Corn (F1-RSC-6090)	105.25	80.5	97.25	66.5	46.24	95000	875250	780250	8.21:1



Activities under Natural Farming

No. of demonstrations conducted	SC/ST			Others			No. Trainings	SC/ST			Others			No. of Awareness Programs	SC/ST			Others		
	M	F	T	M	F	T		M	F	T	M	F	T		M	F	T	M	F	T
2	0	0	0	3	2	5	2	5	0	5	10	5	15	4	2	1	3	15	2	17



Feedback of Farmers

Farmers' perception on new varieties and technologies (Point-wise).

- ❖ Introduction of the new Garden pea variety Kashi Ageti was highly appreciated by most farmers in Bishnupur district after observing its field performance .
- ❖ The pods were found to be heavier and tastier compared to the Arkel variety
- ❖ Farmers expressed interest in the timely availability of seeds
- ❖ Introduction of the Marigold variety Arka Bhanu (F1) for cultivation as an additional income generating crop was highly accepted by the marigold farmers of Bishnupur district
- ❖ Finger millet var. VL Mandua 379 was rated promising by farmers due to its climate-resilience and suitability for rainfed conditions

Important problems and Researchable Issues (Point-wise)

- Land remains fallow during *rabi* seasons as most of the land were occupied by late maturing rice varieties till December first week which led to the untimely sowing of *rabi* crops.
- Hence, development of short duration thermal insensitive rice varieties should be encouraged to enhanced rice based cropping system.
- Lack of year- round availability of improved and tested varieties.
- High cost of organic inputs and not readily available.
- Need to refine the technologies based on organic cultivation or organic nutrient management.

On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept	No. of trials		% of achievement
		Assessed	Target	Achievement	
Agronomy	Rice-mustard	Assessment of Natural Farming Practices in Local mustard (Yella) for sustainable production	5	5	100
	Field pea	Assessment of new high yielding field pea variety HFP 1428	5	5	100
Horticulture	1.Okra	Assessment of Okra variety Arka Nikita	4	4	100
	2.Garden Pea	Assessment of Garden pea variety Kashi Ageti	4	4	100
	3. Broccoli	Assessment of Broccoli variety Pusa Purple Broccoli- 1	-	3	-
Fishery	Pond Management	Growth Performance of Grass Carp <i>Ctenophyrngdon idella</i> on 1. Survival rate (%) 2.Specific growth rate (% day ⁻¹) , 3 FCR & B:C Ratio	3	3	100
Home Sc.	Pineapple	Extraction of pineapple leaf fiber	3	3	100
	Millet	Assessment on preparation of multi millet peanut chikki	3	3	100
PP	Chilli	Organic management module for insect (aphids/thrips/whitefly)transmitted virus in king chilli.(common OFT)	5	5	100
	Potato	Management of white grub in potato.	3	3	100
Soil Sc.	Tomato	Assessment of micronutrient management in tomato	3	3	100
	Rapeseed	Assessment of nutrient management in rapeseed	3	3	100
Total	12		41	44	30 100

FLDs (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology / Social Concept Demonstrated	No. of demonstrations		% of achievement
			Target	Achievement	
Agronomy	Rice-rapeseed	Popularization of nutrient management practices in no tillage rice-rapeseed cropping system	10	10	100
Horticulture	Yard Long bean	Popularization of Yard long bean var. Arka Mangala	10	10	100
Fishery	Pond management	Popularisation of Stunted Fish Fingerlings by Stocking of IMC Fish fry at high stocking density @2,50,000 fry /ha for 8 months with natural feed and fertilization	10	10	100
Home Sc	Jackfruit	Popularisation of jackfruit chip	10	10	100
PP	Onion	Integrated pest and disease management in onion.	10	10	100
	Rice	Managemrnt of false smut (<i>ustilago virens</i>) disease in rice	10	10	100
Soil Sc.	Rice & mustard	Popularisation of phosphorus management in rice mustard sequence	10	10	100
Animal Sc.	Poultry	<i>Popularization of Srinidhi birds.</i>	5	5	100
TOTAL	8		75	75	100



AGRONOMY

ANNUAL PROGRESS REPORT

2025

Presented by
SMS-Agronomy

Common OFT-1
Agronomy

Assessment of Natural Farming Practices in Local mustard (Yella) for sustainable production (First Year)

Technology details :

1. Local mustard cv. Yella, Seed treatment with Beejamrut @ 1lit/100 kg seed, Basal application of Ghanjeevamrut @1000kg/ha at the time of field preparation, Top dressing /foliar application of Jeevamrut @1500 lit/ha twice in a month, Alternate application of Neemastra and Brahmastra, Trap crop in border with Marigold, Mulching with paddy straw @ 6 t/ha.

Parameters for assessment	T1 (Natural Farming Practices)	T0 (Farmers's Practice: Crop residue burning)
Plant height (cm)	98.5	105.5
No. of primary branches per plant	4.0	4.2
No. of siliquae per plant	104	108
No. of seeds/siliqua	12.8	13.2
1000-seed weight(g)	4.1	4.2
Yield/ ha (qt/ha)	7.5	8.2

Economic Analysis

Technology	Yield (q/ha)	Cost of Cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C
Natural farming practices in Local mustard Yella	7.5	28000	67500	39500	2.41:1
Farmer practices (burning of straw)	8.2	34000	73800	39800	2.17:1

Prioritised Problem- Underutilization of locally available resources in conventional farming leading to unsustainable production system



Natural farming practices (straw mulching, use of Bijamrit, Ghanjivamrit, Neemastra)

Source: NMNF, INMD, DAFW, New Delhi, 2025

Area – 0.5 ha No. of trial – 5 nos



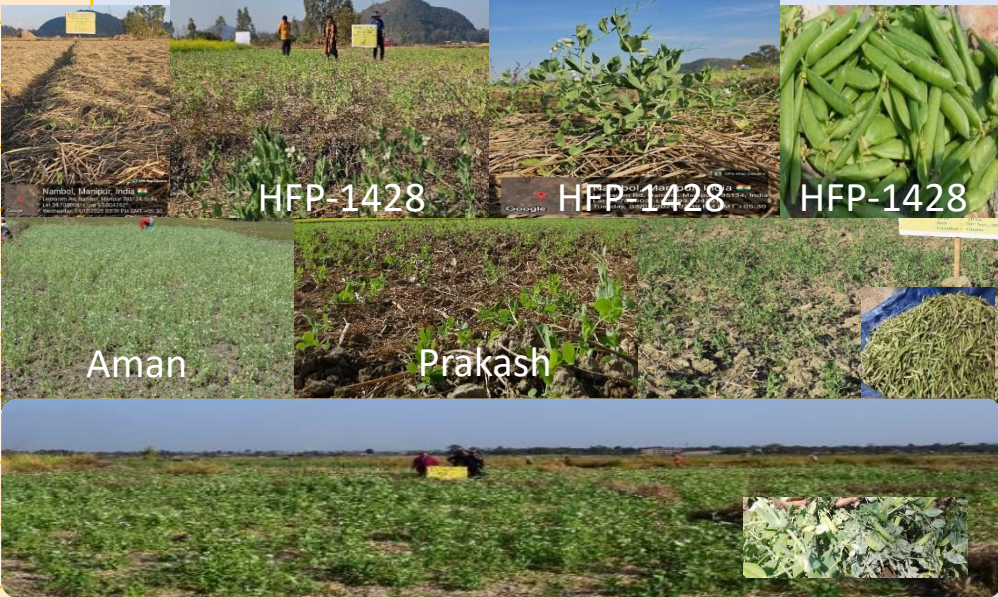
Conventional Farmers' Practice: Crop residue (straw) burning

Assessment of new high yielding field pea variety HFP -1428 (First Year)

Crop	Major problem diagnosed	Severity of problem (%)	Title of OFT	No. of trials
Field pea	Lack of late sown varieties suitable under <i>rainfed</i> condition	65	Assessment of new high yielding field pea variety HFP 1428	7

Parameters on Assessment			
Technology	T1 (HFP 1428)	T2 (Aman)	T0 Farmer’s Practice (Prakash)
1. Developing Institute and year of release	CCS Haryana Agricultural University, Hisar (2021)	ICAR-IIPR. Kanpur (2010)	ICAR-IIPR. Kanpur (2006)
2. Plant type	Dwarf	Semi Dwarf	Dwarf
3. Maturity (days)	123-125	120-123	128-129
4. Mean plant height at harvest (cm)	68	75	82
5. No. of primary branches per plant	3.5	3.4	3.2
6. No. of pods per plant	22	18	16
7. No. of seeds per pod	6.5	5.4	5.2
8. 100 - seed weight (g)	21.6	18.6	21.3
9. Seed yield (kg/ha)	1320	1280	1150
10. Cost of cultivation (Rs./ha)	52500	52500	52500
11. Gross return (Rs./ha)	105600	102400	92000
12. Net return (Rs./ha)	53100	49900	39500
13. B:C ratio	2.01:1	1.95:1	1.75:1

Technology		
T ₁	T ₂	T ₀
Varietal performance of field pea var. HFP 1428 with improved agronomic practices during <i>rabi</i> season	Aman	Prakash (Farmer’s practice)
1) Seed rate: 60 kg/ha 2) Spacing: 30 cm X 10cm) N:P:K:S @ 20:40:20:20 kg/ha 3: Seed inoculation with <i>Rhizobium leguminosarum</i> @ 50g/kg seed + 10 kg sugar		



Remark : To be continued in the next *rabi* season

Popularization of Nutrient Management Practices in a No-Tillage Rice-Rapeseed Cropping System

Crop	Demonstration System Productivity (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local	Gross Cost (Rs/ha)/ (Rs./unit)	Gross Return (Rs/ha) /(Rs./ unit)	Net Return (Rs/ha)/ (Rs./ Unit)	B:C Ratio (GR/GC)
Rice-rapeseed	H	L	A	qt/ha	%				
	87.14	62.17	83.48	70.13	19.03	104000	271310	167310	2.61
<i>Farmers practice – Rice-rapeseed (Improper nutrient management)</i>						97400	227922.5	130522.5	2.34

Technology demonstrated

- Popularization of rice variety RC Maniphou 15 followed by Rapeseed var. TS-38 under no tillage condition/
- Seed rate: Rice - 40 kg/ha, Rapeseed - 15 kg/ha
- Nutrient management:
 - Rice- $N:P_2O_5:K_2O$ kg/ha @ 60:40:30 kg/ha
 - Rapeseed- Application of $N:P_2O_5:K_2O$ kg/ha @ 40:20:20 kg/ha. Total SSP+ 1/2 MOP at or before sowing when there is moisture in the field, first 1/2 urea when 1-2 true leaves emerged and remaining half urea + remaining half MOP at 25-30 days after first application.



Proper Nutrient management in no tillage rice- rapeseed cropping system

Farmers' practice: Improper nutrient management in no tillage rice-rapeseed sequence

Agronomy Training Programmes

(Farmers)

No. of Training prog			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
10	10	100	40	20	-	20	80	80	100

(Rural Youth)

No. of Training prog			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
4	4	100	20			20	40	40	100

(Extension Personnel)

No. of Training prog.			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
3	3	100	20	-	-	20	20	100



Training Attended



Training cum input distribution for CFLD Programme on Oilseeds



As resource person





HORTICULTURE

ANNUAL PROGRESS REPORT

2025

Presented by
SMS-Horticulture

Assessment of Okra var. Arka Nikita (Common OFT)

Crop / Enterprise	Major problem diagnosed	Severity of problem (%)	Technology	Title of OFT	No. of trials
Okra	Low yield, and lack of introduction of new improved varieties	50	To1- Arka Nikita, To2- Arka Anamika To3- Varsha Improved Agronomic practices: Seed rate: 8-10 kg/ha Spacing: 60cm x 30 cm FYM: 5-10t/ha NPK- 100:50:50 kg/ha	Assess ment of Okra var. Arka Nikita	4

Parameters on Assessment	To1	To2	To3
1.Days to 1 st germination	7	6	6
2. Days to 1 st flowering	37	37	37
3. Days to 50% flowering	49	52	55
4.Plant height at1 st harvesting(cm)	70	52	40
4.Days to 1 st harvest	53	53	53
5.No. of Harvesting	7	7	7
6. Duration(Days)	80	80	80
7. Yield(t/ha)	8.1	5.7	4.1
8. Cost of cultivation(Rs)	80,000	75,000	80,000
9. Gross return (Rs)	4,04,760	2,85,715	2,05,000

Net return (Rs/ha)	B:C Ratio (GR/GC)
➤ To1 - 3,24,760	➤ To1 - 5:1
➤ To2 - 2,10,751	➤ To2 - 3.8 :1
➤ To3 - 1,25,000	➤ To3 - 2.6:1



Source ICAR-IIHR, 2024

Crop / Enterprise	Major problem diagnosed	Severity of problem (%)	Technology	Title of OFT	No. of trials
Pea var. Kashi Ageti	Reduction & fluctuation in yield due to prolong use of locally available seed material and lack of improved high yielding garden pea variety.	50	To1: Kashi Ageti To2: Arka Priya To3: Arkel Seed rate- 80kg/ha, Spacing-60cmx15 cm, NPK-20:60:40kg/ha	Assessment of Garden pea var. Kashi Ageti	4

Parameters on Assessment	To1	To2	To3
i. Days at 1st germination	i. 8 days	i. 10 days	i. 9 days
ii. No of days at 50% flowering	ii. 50-53 days	ii. 66 days	ii. 48 days
iii. Avg. plant height (cm)	iii. 62-65cm	iii. 105.5 cm	iii. 65-70
iv. Avg. no. of days at 1 st harvest	iv. 70 days	iv. 81 days	iv. 70 days
v. Avg. no. of pods/plant	v. 18-19	v. 12-13	v. 21-23
vi. No. of seeds per pod	vi. 8-9	vi. 9-10	vi. 8-9
vii. Yield q/ha	vii. 97.5	vii. 65.40	vii. 94.80
viii. Crop duration (days)	viii. 90	viii. 99	viii. 90
ix. Pests and diseases	ix. Aphid & rust	ix. Aphid & rust	ix. Aphid & rust
x. Cost of cultivation (Rs/ha):	x. 95,550	x. 95,550	x. 95,550
xi. Gross Return (Rs/ha):	xi. 4,87,500	xi. 2,61,600	xi. 3,79,200

Net return (Rs/ha)		B:C Ratio (GR/GC)	
To 1	3,91,950	To 1	5.1:1
To 2	1,66,050	To 2	2.73:1
To 3	2,83,650	To 3	4 :1



Source :
ICAR-IIVR, 2015

Assessment of Broccoli var. Pusa Purple Broccoli-1

Crop	Major problem diagnosed	Severity of problem (%)	Technology	Title of OFT	No. of trials
Broccoli	Lack of introduction of new improved varieties	50	To1- Pusa Purple Broccoli-1 To2- Indam Dome Green To3- Green Magic Agronomic practices: Seed rate- 400g/ha Spacing – 60cm x 45cm FYM- 5tonnes/ha NPK-120:60:60 kg/ha	Assessm ent of Broccoli var. Pusa Purple Broccoli-1	4



Parameters on Assessment	To1	To2	To3
1.Days to 1 st germination	3	3	3
2. Plant height at harvesting(cm)	56	52	50
4.Days to 1 st harvest	55	55	55
5. Weight per head(g)	220	250	275
6. Duration(days)	100	100	100
7. Yield(q/ha)	97.75	101.35	103.84
8. Cost of cultivation(Rs)	1,17,500	1,17,500	1,17,500
9. Gross return (Rs)	3,42,125	3,54,725	3,63,440



Net return (Rs/ha)	B:C Ratio (GR/GC)
To1 - 2,24,625	To1 - 2.9:1
To2 - 2,37,225	To2 - 3:1
To3 - 2,45,940	To3 - 3.1:1

Source :
ICAR-IARI, 2023



FLD-1 Horticulture

Popularization on Scientific Cultivation of Yard Long Bean var. Arka Mangala (F1)

Crop Enterprise	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase/ change in avg. yield over local
	H	L	A	qt/ha	%
Yard long bean var. Arka Mangala	189.2	140.6	164.9	140.1	17.7

Technology demonstrated	➤ Yard long bean var. Arka Mangala ➤ Seed rate-25 kg/ha ➤ Spacing- 45cm x 15 cm ➤ NPK- 30:60:50 kg/ha
-------------------------	--

Gross Cost (Rs/ha)/(Rs./ unit)	Gross Return (Rs/ha) / (Rs./ unit)	Net Return (Rs/ha)/(Rs./ Unit)	B:C Ratio (GR/GC)
1,41,000	5,77,150	4,36,150	4.1:1

Farmer practice: Yard long bean var. Renu (F1)

Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio (GR/GC)
1,56,700	4,90,350	3,33,650	3.1:1



Horticulture Training Programmes

(Farmers)

No. of Training prog.			Participants (Nos.)			Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Total		
5 (15)	5 (15)	100	145	20	165	100	>100

(Rural Youth)

No. of Training prog.			Participants (Nos.)			Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Total		
5(15)	5(15)	100	60	15	75	75	100

(Extension Personnel)

No. of Training prog.			Participants (Nos.)		Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Total		
2(6)	2(6)	100	30	30	30	100

(Sponsored training programme)

No. of Training prog.		Participants (Nos.)	
Training	Courses	On	Total
3	9	120	120



SMS-Horticulture, delivered lectures as Resource person



Performance of the distributed Arka seeds benefitted under NEH Component

Sl.No	Name of the crop	Variety	Avg .yield (q/ha)	Cost of cultivation (Rs)	Gross Return (Rs)	Net Return(Rs)	B:C
1.	Tomato	Arka Rakshak	323.84	1,01,440	5,50,528	4,49,088	5.4:1
		Arka Samrat	184.20	1,55,000	6,44,700	4,89,700	4.1:1
2.	Chilli	Arka Khayati	113.5	95,000	4,54,000	3,59,000	4.7:1
		Arka Meghana	100.4	95,000	4,01,000	3,06,600	4.2 :1
3.	Brinjal	Arka Nidhi	161.5	95,700	4,03,750	3,08,050	4.2:1
4.	Onion	Arka Kalyan	267.15	1,30,000	6,67,875	5,37,875	5: 1
5.	Pumpkin	Arka Suryamukhi	68.9	58,000	1,72,250	1,14,250	3:1
6.	Yard long bean	Arka Mangala	152.6	1,35,000	5,34,100	3,99,100	3.9:1
7.	Ridge gourd	Arka Sujat	593	2,80,000	25,49,900	22,69,900	8.1: 1
8.	Coriander	Arka Isha	57.60	48,000	1,44,000	96,000	3:1

Performance of Marigold cultivation in Bishnupur district for income generation

Name of the crop	Variety (FI)	Area	Avg. yield (kg)	Cost of cultivation (Rs)	Gross Return (Rs)	Net Return (Rs)
Marigold	Arka Bhanu	625 sq m	788.8	11,500	70,992	59,492



Farmers' Field Day Programmes under ICAR-IIHR,NEH Component



120 farmers of Bishnupur district benefitted with IPM inputs with Skill development training programmes under ICAR- NRIIPM, NEH Component





FISHERY
ANNUAL PROGRESS REPORT
2025

Presented by
Sr. Scientist & Head

OFT-1 Fishery

Growth Performance of Grass Carp *Ctenophyrngodon idella* 1st Year

Livestock	Major Problem diagnosed	Severity of problem (%)	Technology/ Social Concept	Title of OFT	No. of trials
Fishery (Pond Mgmt)	High cost and poor availability of commercial feed, along with low growth and productivity under traditional feeding practices, severely limit profitable grass carp farming for small and marginal farmers, prompting the need for low-cost forage-based alternatives.	70	Technology : T-1: stocking @ 650 Fingerlings /0.1 ha and feeding with chopped Napier Grass (forage crops) T-2: stocking @ 650 Fingerlings /0.1 ha and feeding with Azola, Aquatic macrophytes) Culture Period : 8 months Area : 0.1 ha	Growth Performance of Grass Carp	3

Parameters of assessment/refinement	Results/ observation on selected parameters	Net return (Rs/0.1 hac)	B:C Ratio (GR/GC)	Remark for recommendation for FLD
Technology				
1. Survival rate (%)	55	45,440	2.28 : 1	Recommendation for FLD
2. Specific growth rate (% day ⁻¹)	1.29			
3. Feed conversion ratio (FCR)	12.05			
Farmers' Practice :				
1.Survival rate (%)	61	33,300	2.06 : 1	Recommendation for FLD
2. Specific growth rate (% day ⁻¹)	0.39			
3. Feed conversion ratio (FCR)	11.6			
ICAR- Eastern Region , Patna (2024)				



Providing forage crops



Cutting of forage crops



Application of azolla



Azolla aquatic macrophytes

Enterprise	Breed	No. Of farmers	No. Of animals/ poultry birds etc.	Performance parameters/ indicators	Data on parameters in relation to technology demonstrated		% Change
					Demo	Local	
Feeding Mgmt.	Indian major Carps	4	2,50,000/ha	Survival rate	70	57	81.42
College Of Fisheries CAU , Lembuchera (2022)							



Fishery Training Programmes

(Farmers)

No. of Training prog.			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
4	4	100	60	40	50	30	180	150	>100



(Rural Youth)

No. of Training prog.			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
4	3	75	40	40	-	-	80	80	100



(Extension Personnel)

No. of Training prog.			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
2	2	100	20	40	-	60	40	>100





HOME SCIENCE

ANNUAL PROGRESS REPORT

2025

Presented by
SMS-Home Sc.

Extraction of Pineapple Leaf Fibre (by retting)

Crop/	Major problem diagnosed	Severity of problem (%)	Technology/ methodology/ Social Concept (details)	Location	Title of OFT	No. of Trials
Pineapple leaf	Post harvest, pineapple leaves are a problematic agro waste.	70%	T1-NINFET -SATHI retting accelerator @ 0.5% along with 0.5%of DAP. T2-NINFET SATHI retting accelerator @ 0.75%along with 0.5%of DAP. T3- Control farmer practice (water retting)	Oinam Leimaram & Ngakhalawai	Extraction of pineapple fibre	3



Leaf



Retting (T1)



Retting after 10 days

Kew	Fresh leaf (kg)	Retting	Colour	Texture	Length	Fibre yield (g)	Gross return	Net return	BC ratio
T1	50	10 days	Good	Soft	40 cm	1000	900	450	2.0 :1
T2	50	13 days	Good	Soft	38 cm	840	Source: ICAR- NINFET, 2021		
T3	50	20 days	Average	Soft	30 cm	792			



End product



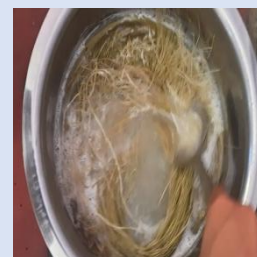
Pineapple fibre Yarn



Twisting fibre



After Treatment



Treatment : Soap-20% Soda ash-5%



Separation of leaf



Assessment of multi millets peanuts chikki (Common)

Crop	Major problem diagnosed	Location	Title of OFT	No. of Trials
Millets	Non availability of diversified value added product	3	Assessment of multi millets peanuts chikki	5

Farmer's Practice : Peanut chikki , (jaggery, ghee, peanut) without millets

Technology/ methodology/ Social Concept (details)

- | | |
|--|---|
| <ul style="list-style-type: none"> ❖ Preparation of multi-millet peanut chikki. ❖ Roast and crush the peanut (1Kg) coarsely. ❖ Heat jaggery (1Kg) with 1 tsp of water until it gives thick consistency. ❖ Boil the syrup until it shows hard crack consistency. ❖ Add millet flour (sorghum 200g, ragi 100g, bajara 100g), ghee (100g) and crushed peanut to the syrup and mix thoroughly. ❖ Grease the tray with little amount of ghee and spread the mixture. ❖ Roll it flat using a rolling pin. ❖ After cooling cut into square shapes. | <ul style="list-style-type: none"> ❖ Preparation of Peanut Chikki ❖ Roast & coarsely crush the peanuts (1kg) with a mixer grinder ❖ Heat jaggery (1kg) with 1tsp water until it gives thick consistency. ❖ Boil the syrup until it shows hard crack consistency. ❖ Add, peanut, ghee(100g) to the syrup and mix it thoroughly Grease a tray with little amount of ghee & spread the mixture. ❖ Roll it flat using a rolling pin. ❖ After cooling cut into square shape |
|--|---|

Parameters	
➤ Colour	1.6
➤ Acceptability	8
➤ Appearance	Dark Brown
➤ Texture	Crispy
➤ Shelf life	3 months
➤ Product recovery/Kg	1.6
➤ Cost of Prodn	407
➤ Gross income	1125
➤ Net income	718
➤ BC Ratio	2.76

Nutritional Content per 100g

Parameter	Result
Protein	13.06±0.18
Fat	16.93±0.65
Carbohydrate	58.1
Crude Fibre	6.53±0.38
Total Ash	1.47±0.03
Energy(kcals)	437.01
Moisture	3.91±0.04

Source:
ICAR-IIMR Hyderabad, 2022



Multi Millets Peanuts
Chikki

Home Sc. Training Programmes

(Farmers)

No. of Training prog.			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
5	5	100	55	70	-	-	125	125	100

(Rural Youth)

No. of Training prog.			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
7	7	100	30	45	0	100	175	175	100

(Extension Personnel)

No. of Training prog.			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
3	3	100	30	45	-	75	75	100

T=Target A=Achievement



Poshan pakhwada training given to the anganwadi workers



Training given to the B.Sc. Home Science student of Kumbi college



Poster Presentation on National Seminar Futuristic Agriculture: Technology, Sustainability and beyond



Exposure Visit



SMS-Home Science as Resource person



Resources person at KVK Thoubal



Resources person at KFWS

Awareness programme about the Health and Nutrition for the Pregnant Women



Attended short course at CAU Imphal





PLANT PROTECTION

ANNUAL PROGRESS REPORT

2025

Presented by
SMS-Plant Protection

Crop / Enterprise	Problem diagnosed	Severity of problem (%)	Technology (give details)	No. of trials
King chilli var. Local	Chilli cucumber mosaic virus	Upto 30%	T1: Growing of maize in border row 20-25 days ahead of transplanting of chilli , mulching the inter row spaces with paddy straw/silver plastic mulch. T0: Spinosad 45% SC @0.32/ltr water.	5



Parameters on Assessment/ Refined	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)
1.Disease incidence % 2.Average pest population per plant 3. Yield	T1: i) Disease incidence recorded up to 8%, ii) Ave. population- 2.8aphids,2.0thrips and 1.8whitefly/plant was observed iii) Yield was 4.3t/ha & Maize yielded upto 1.78t/ha iv) KCEY was 4.5t/ha	7,44,600	5.93:1
Farmer practice	T0: i) Disease recorded up to 25.6%. ii) Ave. population- aphids- 6.2, thrips- 7.1& whitefly – 10.0 per plant iii) Yield was 3.1t/ha	4,89,000	4.73:1



Source:
ICAR- RC Manipur Centre, (2019)

Management of white grub in potato.

Crop	Problem diagnosed	Severity of problem (%)	Technology (give details)	Title of OFT	No. of trials
Potato Var. kufri jyoti	White grub	20-30	T1: Soil drenching with Clothianidine 50WDG @0.5g/ltr water as furrow application. T2:): Application of fipronil 0.3G T0: (Farmer Practice): Application of NSKE @ 5%	Management of white grubs in potato.	3

Parameters on Assessment/ Refined	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)
1. % tuber damage 2.. No. of grubs/sq m 3. Yield	T1: i) % tuber damages upto 4.12 with an ave poputation of 1grubs/sqm ii) Yield - 127q/ha T2: i) % tuber damages upto 4.4% ii) 1.8 grubs iii) Yield -120q/ha.	105500 93,000	2.24:1 2.06:1
Farmer practice	T0: i. % tuber damaged was 19.0 ii. Grubs/ sq mt was 8 iii. Yield - 92.3qt /ha	82,250	0.95:1



Source:
ICAR-DOGR, 2018

Integrated pest and disease management in onion.

Crop Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase	Gross Cost (Rs/Ha)/ (Rs./ unit)	Gross Return (Rs/Ha) / (Rs./ unit)	Net Return (Rs/Ha) / (Rs./ Unit)	B:C Ratio (GR/GC)
		H	L	A	Qt/Ha)	%				
Onion (Var: prema)	-Onion bulb treatment with <i>P. fluorescens</i> @5g + <i>T. viride</i> @5g in 20 ml of water/kg of seed bulbs. - <i>P. fluorescens</i> (5 g/lit) and <i>Beauveria bassiana</i> (10 g/lit) to be applied on 30th day of planting for thrips & - Application of - Tebuconazole250 EC (1.5 ml/l) after the initial appearance of the purple blotch disease.	152	123.2	140	94.39	48	93,000	252,000	159,000	2.71:1
				Disease index upto 8%.	21.3% in farmer practices		86,000	169,740	83,740	1.97:1
Source: ICAR-NOFRI, 2013 										



Management of false smut (*Ustilago virens*) disease in rice.

Crop Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase	Gross Cost (Rs/Ha)/ (Rs./ unit)	Gross Return (Rs/Ha) / (Rs./ unit)	Net Return (Rs/Ha) / (Rs./ Unit)	B:C Ratio (GR/GC)
		H	L	A	Qt/Ha)	%				
Rice (Var: RCM-16)	Appication of copper oxychloride 50% WP at three crop stages. (Booting, 50% and 100% panicle emergence).	58.0	47.0	52.0	43.1	20	85,200	156,000	70,800	2.83:1
							86,000	129,000	43,000	1.5:1

Source: TNAU, 2013



Plant Protection Training Programmes

(Farmers)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
4	4	100	60	60	-	-	-	120	100



Training programme on Natural Farming

(Rural Youth)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
4	4	100	50	50	-	-	-	100	100



Training cum demonstration on Mushroom cultivation

(Extension Personnel)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
2	2	100	30	-	-	-	30	100



Mushroom demonstration unit



Other collaborative Programmes



Diagnostic visit





AGRIL. EXTN.
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Agril. Extn. Training Programmes

(Farmers)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
10	10	100	120	60	0	0	180	200	90



(Rural Youth)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
10	10	100	90	130	0	0	220	240	92



(Extension Personnel)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
4	4	100	20	30	0	50	50	100



T=Target A=Achievement



SOIL SCIENCE
ANNUAL PROGRESS REPORT
2025

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SMS-Soil Science

Assessment of micronutrient management in tomato
(2nd year)

Crop / Enter- prise	Problem with severity	Technology/ Social Concept/ methodology to be	Source of techno and year release of (if any)	No. of trials proposed to be	Parameters of assessment/ refinement
		Assessed		Assessed	
Tomato Var: Arka Rakshak	Low yield due to imbalance use of micronutrients	Tomato T1: 100 % N, 50 % P ₂ O ₅ & K ₂ O 50 % ZS @ 5 Kg/ha, BX @ 5 Kg/ha & AM @ 0.5 Kg/ha as soil application ZS @ 0.25 % (525 ppm), BX@ 0.25 % (262 ppm)& AM @ 0.10 % (1300 ppm) 3 time at 15-20 days interval as foliar application	Division of System Research and Engineering, ICAR, NEHR, Umiam, 2023	3	➤ Soil pH, OC, Zn, Fe, Mo status ➤ Date of sowing ➤ Date of transplanting ➤ Yield (q/ha) ➤ B:C Ratio
T0: Farmer's Practice (full dose of NPK without micronutrient)					

Assessment of micronutrient management in tomato

Parameters on Assessment								GC (Rs/ ha)	GR (Rs/ha)	NR (Rs/ ha)	B:C Ratio
Techno- logy (Rice)	Initial fertility mg/kg	Final fertility mg/kg	pH	OC %	Sowing date	Transplanting date	Yield Qt/ha				
T1	Zn :0.41 B :0.39 Mo :0.046	Zn : 0.54 B : 0.47 Mo:0.069	5.79	1.09	25/05/25	20/06/25	261.7	81387	392550	311163	4.82:1
T0	Zn :0.33 B :0.43 Mo :0.038	Zn : 0.25 B : 0.29 Mo:0.019	5.63	1.15	25/05/25	20/06/25	212.2	84923	318300	233377	3.75:1



Crop / Enter-prise	Problem with severity	Technology/ Social Concept/ methodology to be	Source of technology and year of release	No. of trials proposed to be	Parameters of assessment/ refinement
		Assessed		Assess	
Rapeseed Var: TS-38	N losses from urea application and low inherent soil fertility	T1:Two foliar applications of 1% Urea at flowering and pod filling stage + recommended dose of fertilizer @ 50 kg N/ha, 60 kg P ₂ O ₅ kg/ha, 30 kg K ₂ O /ha	Assam Agriculture University (AAU), 2015	3	➤ Sowing date ➤ pH ➤ OC % ➤ Av. N,P,K kg/ha Before & after crop ➤ Harvesting date ➤ Yield (q/ha) ➤ B.C Ratio
Farmer Practice(T0): Farmer practice (Blanket application of Urea only)					

Assessment of nutrient management in rapeseed

Parameters on Assessment												
Techn ology (Rice)	Initial fertility kg/ha		Final fertility kg/ha	pH	OC %	Sowing date	Harvest date	Yield Qt/ha	Gross Cost (Rs/ ha)/	Gross Return (Rs/ha)	Net return (Rs/ ha)	B:C Ratio (GR/ GC)
T1	N	448.7	460.3	5,63	0.97	29/11/25	05/03/2026	7.93	30850	71370	40520	2.31:1
	P	17.47	19.29									
	K	180.9	187.5									
T0	N	430.9	443.7	5.71	0.94	29/11/25	05/03/2026	5.42	28750	48780	20030	1.69:1
	P	19.23	18.13									
	K	182.8	175.4									



FLD-1

Soil Science

Popularization of phosphorus management in rice mustard sequence (First year)

Crop Enterprise	Technology demonstrated	Demonstrated nutrient contents %		Demonstration Yield (Q/ha)			Yield of local Check (Q/ha)	% increase/ change in avg. yield over local	Crop Enterprise	Technology demonstrated	Demonstrated nutrient contents %		Demonstration Yield (Q/ha)			Yield of local Check (Q/ha)	% increase/ change in avg. yield over local
		Demo	Check	H	L	A					Demo	Check	H	L	A		
Rice				45.36	41.53	43.45	31.78	36.65	Mustard				9.34	8.58	8.96	6.27	42.9
	N	382.4	370.9							N	382.4	370.9					
	P	19.23	16.7							P	19.23	16.7					
	K	141.7	136.3							K	141.7	136.3					

Technology	Yield (q/ha)		REY (q/ha)	System productivity (q/ha)	Cost of Cultivation	Gross return	Net return	B:C
	Rice	Mustard						
Demo	43.45	8.96	26.88	70.33	84170	210990	126820	2.50:1
Check	31.78	6.27	18.81	50.59	80210	151770	71560	1.89:1

Source: RARS Shillongoni, Nagaon, AAU, 2017

Phosphorous management in Rice-Mustard sequence



Soil Sc. Training Programmes

(Farmers)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Vocational	Total		
12	12	100	20	20		20	60	60	100

(Rural Youth)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)					Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Voc.	Total		
3(9)	3(9)	100	20	20	-	20	60	60	100

(Extension Personnel)

No. of Training prog. (No. of courses/topics)			Participants (Nos.)				Target Beneficiary (nos.)	% achievement (over target beneficiaries)
T	A	% of A	On	Off	Spon.	Total		
2(4)	2(4)	100	15	15	-	30	30	100

T=Target
A=Achievement



Trainings Attended



Vermicomposting Training programme



Training programme on Compost Making



5 Days Vocational Training programme on "Preparation Vermicompost"



ANIMAL SCIENCE
ANNUAL PROGRESS REPORT
2025

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PA-Animal Science

- Breed : **Srinidhi**
- No. of farmers : **5**
- No. of poultry birds: **20 birds per farmer**



Fig 1. One week old Srinidhi chicks



Fig 3. Forty weeks old Srinidhi birds



Fig 2. Two weeks old Srinidhi chicks



Fig 4. Forty weeks old local birds

Performance parameters/ indicators	Data on parameters in relation to technology demonstrated		% Change
	Demo	Local	
1. Viability % :	95%	85%	11.76 %
2. Body wt. at:			
a. DOD :	67 g	50 g	64.27% body wt changes at 40 weeks.
b. 4 weeks :	288 g	183g	
c. 6 weeks :	575 g	375 g	
d. 8 weeks :	910 g	558 g	
e. 12 weeks :	1241 g	845 g	
f. 16 weeks :	1580 g	1100 g	
g. 20 weeks :	1936 g	1370 g	
h. 40 weeks :	2520 g	1534 g	
3. Age at first laying	170 days	195 days	
4. BC. Ratio	1.96:1	1.41:1	
5. FCR	2.7	3.4	

Remarks

A. Srinidhi birds are found to have better performance on growth, survivability, age of first laying in comparison to local birds.

Thank You
Thagatchari