ANNUAL ACTION PLAN

JAN' 25 – DEC' 25

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ESTD: 2007

भाकृ अनुप
ICAR

Abstract of OFTs

Sl. No	Title of the OFT	DISCIPLINE
1	Performance of soybean varieties under rainfed condition Varieties – KDS – 753, KDS – 726, MACS -1460, Umiam soybean -1, JS -335	Agronomy
2	Performance of mid-duration field pea var. IPFD 12-2	Agronomy
3	Varietal evaluation on garlic var. VL Lahsun 2	Horticulture
4	Varietal evaluation of chilli hybrids	Horticulture
5	Assessment of micronutrient in Tomato	Horticulure
6	Organic management of Late Blight in Potato	Plant Protection
7	Management of Blister beetle in Okra	Plant Protection
8	Performance of Tokbari poultry bird under backyard system	Animal Science
9	Performance of White pekin duck (Vigova Super-M) under backyard system	Animal Science
10	Evaluating the effectiveness of Entrepreneurship Development through scientific Bee Keeping approach	Agriculture Extension
11	Assessing the effectiveness of Serrated Paddy sickle towards man power management.	Agriculture Extension

OFT- 1 (1st Year)-

Agronomy

Performance of Soybean varieties under rainfed condition

Crop	Prioritized Problem	Details of technology	Source
Soyabean	Use of long duration and low yield variety	1. Soyabean will be sown during July – 1ST week Aug 2. Sow with 30x15cm spacing 3. Variety : T1 – KDS 753, T2 – KDS -726, T3 – MACS -1460,T4 - Umaim soybean 1, T5- JS 335	T1 &T2 – MPKV, Rahuri, 2020,2019. T3-ARI, Pune 2020 T4 – ICAR NEH, 2018 T5 – JNKV, Jabalpur 1994

Area	0.75 Ha
Replications	3 nos.

Parameters

1. Growth parameters, 2. Yield parameter, 3. BC ratio

OFT- 2 (1st Year)

Agronomy

Performance of mid duration Field pea as second crop

Crop	Prioritized Problem	Details of technology	Source
Field pea	Use of long duration, tall and old variety	1. Sown during October/ November – February 2. Sowing will be done after the first crop 3. Line sowing with spacing 30x 10 cm 4. Variety : IPFD 12-2	IIPR 2017

Area	0.75 Ha
Replications	3 nos

1. Parameters

1. Yield parameters 2.Yield/ha
3. BC ratio

OFT- 3 (1st Year)-Common

HORTICULTURE

Title of OFT: Varietal evaluation on garlic var. VL Lahsun 2

Crop / Enterprise	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	Refined		Assess	Refine	
Garlic var. VL Lahsun 2 (high Yield potential resistant to purple blotch, less storage loss)	Low Yield due to use of non-descript varieties (42%)	➢ T1: VL Lahsun 2 ➢T2: Farmers's Variety ➢Seed treatment: ➢Dip 1 hr in 4% pseudomonas fluorescens or 4% Trichoderma viride, 4% Azospirillum and 4% Phosphobacteria (PSB) solution. ➢Dry in shade ➢Sowing: October ➢Spacing 15X10 cm	-	ICAR VPKAS, Almora 2013	03		➢ Plant ht ➢ Bulb weight ➢ No of cloves/bulb ➢ Clove weight ➢ Yield/ha ➢ B:C ratio

OFT- 4(1st year)

HORTICULTURE

Title of OFT: Varietal evaluation of chilli hybrids

Crop / Enterprise	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	Refined		Assess	Refine	
Chilli ❖Arka Tejasvi & Arka Saanvi ❖Both are high yielding. High pungent, tolerant to ChLCV	Low yield due to non use of HYVs and disease resistant varities (47%)	➢T1-Arka Tejasvi ➢T2-A rka Saanvi ➢Sowing :March ➢Transplanting: april ➢Spacing:75 X 60cm	-	2020 &2022 IIHR, Bangalore	03		➢ Days to flower ➢ Days to harvest ➢ No of fruits/plant ➢ Fruit weight (g) ➢ Yield/plant (g) ➢ Yield/ha (Q) ➢ B:C ratio

OFT- 5 (2nd Year)

Horticulture

Title of OFT: Assessment of micronutrient in Tomato

Crop / Enterprise	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	Refined		Assess	Refine	
Micronutrient application in Tomato	Low yield due to low soil micronutrient (45 %)	➢Soil application: ZS@05 kg/ha BX@05kg/ha AM@0.5kg/ha ➢ Foliar application 3 times (30DAT.45 DAT,60 DAT) ZS@0.25% (525ppm) BX@0.25% (226ppm) AM@010% (1300ppm)	-	ICAR, Umiam	03		➢ Plant of flower ➢ Date of first harvest ➢ Date of final harvest ➢ Yield/plant ➢ Yield/ha ➢ B:C ratio

OFT- 6 (1st year)

Plant Protection

Title of OFT	Organic management of Late Blight in Potato

Crop / Enterprise	Problem diagnosis (with extent/ severity of problem)	Source and year of release (if any)	Locations	No of trials	Area	Parameters of assessment/refinement
Potato	Heavy disease incidence resulting in poor yield	ICAR-CPRIS, Meerut 2017	1. Kuthur 2. Chendang	3	0.5	<u>Technology</u> 1. Disease severity (%) 2. Disease control 3. Disease incidence 4. Yield 5. B.C ratio

Farmers practice: Removal of infected plants

Details of Technology	Spray schedule
1. Planting to be done during the first fortnight of November 2. Three sprays of *Trichoderma viride* (0.7%) + Bacillus subtilis(0.25%) before and after the appearance of the disease.	1. First at before blight appearance 2. Second at blight appearance 3. Third after appearance

OFT- 7 (1st year)

Plant Protection

Title of OFT	Management of Blister beetle in Okra

Crop / Enterprise	Problem diagnosis (with extent/ severity of problem)	Source and year of release (if any)	Location Season/ No. of days	No. of trials proposed to be		Parameters of assessment/refinement
				A	R	
Okra	Heavy pest infestation leading to extensive damage and reduction in yield	ICAR-Indian Institute of Horticulture Research (IIHR) 2016-17	Wongthu	4	-	<u>Technology</u> 1. Yield 2. % infestation 3. B.C ratio

Details of Technology

Spraying of neem oil 10000ppm @2.5ml/lit. First prophylactic spray is given just before opening of the flowers and subsequent sprays are applied at 6-7 days interval. A total of 3-4 sprays are sufficient

Farmers practice: No management practices

OFT- 8 (1st year)

Animal Science

Title of OFT	Performance of Tokbari poultry breed under backyard system

Crop / Enterprise	Problem diagnosis (with extent/ severity of problem)	Technology/Social concept/Methodology to be assessed	Source and year of release (if any)	Location Season/ No. of days	No. of trials proposed to be	Parameters of assessment/refinement
Poultry	Poor growth rate and low egg production	T01-Tokbari T02-Rainbow rooster	ICAR, Tripura Centre and 2024	Yangpi	5	1. Body weight 2. Age at first laying 3.Egg production 4.Mortality 5.Economics

Details of

Tokbari is a multi-coloured hybrid chicken variety suitable for rural poultry production system in agro-climatic conditions of NEH region. Attractive multi-coloured feather pattern with moderate body weight, good escaping ability and scavenging habits. Due to long shank and strong body conformation it can move faster in free range for scavenging and also protect themselves from predators. The annual egg production is 150-170 and 130-150 at institute farm and at the farmer's fields respectively.

OFT- 9 (2nd year)

Animal Science

Title of OFT	Performance of White pekin duck (Vigova Super-M) under backyard system

Crop / Enterprise	Problem diagnosis (with extent/ severity of problem)	Technology /Social concept/Methodology to be assessed	Source and year of release (if any)	Location Season/ No. of days	No. of trials proposed to be	Parameters of assessment/refinement
Poultry	Poor growth rate	T01-White Pekin T02-Pati	CPDO, Hesaraghatta, Bangalore & 2008	Chendang and wongthu	3	1. Body weight gain 2. Age at first laying 3. Egg production 4. Mortality 5. Economics

Details of Technology

White pekin is the most popular duck in the world known for table purpose. It is fast growing and has low feed consumption with fine quality of meat . It attains about 2.2-2.5 kgs of body weight in 42 days of age with a feed conversion ratio of 1:2.3-2.7kg

OFT- 10 (3rd year)

Agricultural Extension

Title of OFT	Evaluating the effectiveness of Entrepreneurship Development through scientific Bee Keeping approach

Crop / Enterprise /Thematic area	Problem diagnosis (with extent/ severity of problem)	Source of Methodology	Location Season/ No. of days	No. of trials proposed to be		Parameters of assessment/refinement
				A	R	
Participatory and community based approaches	No Scientific skill in Bee Keeping	DKMA, ICAR, New Delhi (2016)	Taknyu village	15	-	1. SES 2. Scientific scienticism 3. Entrepreneurial traits 4. Economics

Details of Technology

Taknyu village is known for organic honey, which are harvested from the wild and also reared in locally made bee boxes. In order to harness the potential of Bee keeping and maximize its production. 15 youths will be identified and handholding support shall be provided throughout the rearing period. This way they are expected to extract pure honey scientifically and also become an entrepreneur.

OFT- 10 (3rd year)

Agricultural Extension

Title of OFT	**Assessing the effectiveness of Serrated Paddy sickle towards man power management.**

Crop / Enterprise /Thematic area	**Problem diagnosis (with extent/ severity of problem)**	**Source of Methodology**	**Location** **Season/ No. of days**	**No. of trials proposed to be**		**Parameters of assessment/refinement**
				A	**R**	
Participatory and community based approaches	**Use of plane edge sickle resulting in harvesting loss**	Ex-Post facto Assessment	Alisopur village (Dec 2025)	**30**	**-**	**1. SES** **2. Scientific Scienticism** **3. Economics**

Details of Technology	**Serrated sickle made of high quality carbon steel will be introduced to the farmers. To familiarize with the technology, they will be given the tool in advanced before the assessment period.**

Abstract of FLDs

Sl. No.	Title of the FLD	DISCIPLINE
1	Demonstration on Mid duration hybrid Maize Var. HQPM-5	Agronomy
2	Demonstration on Soyabean var. MACS 1460	Agronomy
3	Demonstration of Field pea as second crop – Aman	Agronomy
4	To Popularize High yielding and short duration Pea var. KSP-110	Horticulture
5	To popularize high yielding and disease resistant (ToLCV, BW, Blight) hybrid Arka Samrat	Horticulture
6	Management of Aphids in Cabbage	Plant Protection
7	Management of Aphids in Cabbage	Plant Protection
8	Popularization of rainbow rooster in backyard system	Animal Science
9	Popularization of urea molasses mineral block (UMMB) in crossbreed dairy cattle	Animal Science
10	Mobilization of farming communities to adopt post harvest Technology (Maize sheller) in maize	Agriculture Extension
11	Enhancing farmers participation through group approach towards technology adoption with reference to Nutritional gardening.	Agriculture Extension

FLD-1

AGRONOMY

Demonstration on Mid duration hybrid Maize Var. HQPM-5

Problem Diagnosed: Long duration, tall variety causing lodging and low yield

Crop	Details of technology
Maize	Sowing: April/May -June Spacing: 60 x 25 cm Line transplanting with 1-2 seed per hill Thinning/ gap filling 45DAS

Area	5 ha	No. of demo.	5

Source:
CCSHAU, Uchani, Karnal. 2007

Parameters
Yield/Ha
B:C ratio

FLD- 2

AGRONOMY

Demonstration on Soyabean var. MACS 1460

Problem Diagnosed: Use of old variety, long duration and low yield

Crop	Details of technology
Soyabean	Sowing: June - July , Seed rate: 55 – 60 kg/Ha Spacing: 30 x 15 cm

Area	3 ha	No. of demo.	6

Source:
Aghar Research Institute, Pune
2020

Parameters

Yield/Ha
B:C ratio

FLD- 3

Demonstration of Field pea as second crop

AGRONOMY

Crop	Prioritized Problem	Details of technology	Source
Field pea	**Mostly practice of mono cropping .**	**Variety - Aman**	IIPR 2010

Area	3 Ha
Demonstration	6

Sow during September-October
Line sowing with Spacing 30 X 15 cm

Parameters
Yield/Ha
B:C ratio

FLD- 4

HORTICULTURE

To Popularize high yielding and short duration Pea var. KSP 110

Crop / Enterprise	Technology/ Social Concept/ methodology to be Demonstrated	No. of demonstrations	Area (ha)/ No. of activity/ items to be covered	No. of farmers to be covered/ benefitted	Parameters selected for demonstration
Pea	To popularize high yielding and short duration pea var. KSP-110	03	01	30	➢ Days to flower ➢ Days to harvest ➢ No of Pod/plant ➢ Yield/plant ➢ Yield/ha ➢ B:C ratio

FLD- 5

HORTICULTURE

To Popularize high yielding and disease resistant (ToLCV, BW, Blight) hybrid Arka Samrat

Crop / Enterprise	Technology/ Social Concept/ methodology to be Demonstrated	No. of demonstrations	Area (ha)/ No. of activity/ items to be covered	No. of farmers to be covered/ benefitted	Parameters selected for demonstration
Tomato	**To Popularize high yielding and disease resistant (ToLCV, BW, Blight) hybrid Arka Samrat**	03	01	30	➢ Days to flower ➢ Days to harvest ➢ No of fruit/plant ➢ Yield/plant ➢ Yield/ha ➢ B:C ratio

FLD- 6 (Common)

Plant Protection

Biological management of Fall Armyworm in Maize		
Crop	**Details of technology**	**Source**
Maize	T1. *Metarhizium anisopliae* talc formlation@ 5g/litre whorl application at 15-25 days after sowing + spraying of *Beauveria bassania* & *Bacillus* T2. Farmer practice	ICAR-NEHR, Umiam 2019

Area (ha)	No. of demonstration	No. of farmers	Location	Parameters
2	8	8	Helipong Chingmelen New Anganba Ngangpong	1. % infestation 2. Yield/ha 3. BC ratio

FLD- 6 (1st year)

Plant Protection

Title of FLD	Management of Aphids in Cabbage

Details of Technology :

Treatment with neem oil 10000ppm @2.5ml/litre of water at 7 days interval and repeat if infestation persist. First spray will be given once infestation level reaches 5%.

Source & year of Release:

Anand Agriculture University, Anand, Gujarat

2018

No. of demonstration	Location	No. of farmers	Area/Quantity
4	Tsongti	10	1.0

Parameters selected for demonstration

1. Yield
2. % infestation
3. B.C ratio

FLD- 7(1st year)

Animal Science

Title of FLD	Popularization of rainbow rooster in backyard system

Details of Technology :

Low Technology input, Multicolored and Dual purpose birds suitable for Back yard farming. Matures between 4-6 months and lays 160-180 eggs in 72 weeks. Attains average weight of 2kgs in 8 weeks under commercial feeds.

C.V.Sc AAU, Khanapara & 2012

No. of demonstration	Location	No. of farmers	Area/Quantity
10	Thronger & Kiding	10	500

Parameters selected for demonstration

1. **Body weight**
2. **Egg production**
3. **Mortality (%)**
4. **B:C ratio**

FLD- 8 (1st year)

Animal Science

Title of FLD	Popularization of urea molasses mineral block (UMMB) in crossbreed dairy cattle

Details of Technology :

Ingredients of UMMB (3kgs)

1. Molases : 900gms
2. Urea : 300gms
3. Ricebran: 600gms
4. Wheat flour :450gms
5. Mineral mixture:450gms
6. Salt:200gms
7. Cement:100gms

Dose: One block/cattle/month

Source & year of Release:

CAU, Selesih & 2015

No. of demonstration	Location	No. of farmers	Area/Quantity
10	New Tuensang, Tuensang & Longpang	10	50

Parameters selected for demonstration

1. **Average milk yield per day**
2. **Peak milk production**
3. **BC ratio**

FLD- 9

Agriculture Extension

Title of FLD	Mobilization of farming communities in adoption of post harvest Technology (Maize sheller) in maize

Details of Technology : Octagonal shape Tubular Maize sheller shall be introduced for the purpose of demonstration. It contains four teeth inside the sheller for seperating the corn from the comb. Shear force is used for rotating the maize inside the sheller.

Source & year of Release:

CIAE, Bhopal 2012

No. of demonstration	Location	No. of farmers
40	Ngangpong village	40

Parameters selected for demonstration

1.) **S.E. S**
2) Group dynamics
3) Scientific temperament
4.Economics

FLD- 10

Agriculture Extension

Title of FLD	Enhancing farmers participation through group approach towards technology adoption with reference to Nutritional gardening.

Details of Technology : Members of 2 SHG groups will be identified and trained in vegetable nursery raising , land management, IPM and INM for growing year round vegetables production for table purpose and supplement of nutrient requirement.

Methodology source:

Chaudhary, Singh and Patel (2021)

No. of demonstration	Location	No. of farmers
2 SHG groups	Kuthur village	20

Parameters selected for demonstration

1. **S.E.S**
2. **Scientific temperament**
3. **Group orientation.**
4. **Economics**

Training Programmes for Farmers (Jan-Dec, 2025)

Discipline	No. of training prog and	Farmer Beneficiaries (Nos.)				
	Course (No.)	On	Off	Spon.	Vocational	Total
Agronomy	8 nos./ 6 courses	150	90	-	-	240
Horticulture	9 nos./ 6 courses	60	40	20	-	120
Animal Science	9 no. / 8 courses	60	125	-	-	185
Plant protection	8 no./ 7 courses	120	150	-	-	270
Agriculture Extension	8 no./ 6 courses	120	120	-	-	240
Home science	2 no./3 courses	30	45	-	-	75
Total	36 nos/36 courses	540	470	20	-	1130

Training Programmes for Rural Youth (Jan-Dec, 2025)

Discipline	No. of training prog and Course (No.)	Rural Youth Beneficiaries (Nos.)				
		On	Off	Spon.	Voc.	Total
Agronomy	2 no./ 2 courses	30	30	-	-	60
Horticulture	2 nos./ 5 courses	40	20	30	-	90
Animal Science	3 nos./ 6 courses	35	20	15	-	70
Plant protection	2 nos./6 courses	25	30	-	-	55
Agriculture Extension	2 nos./6 courses	30	30	-	-	60
Home science	2 nos/2 courses	30	30	30	-	90
Total	13 nos/27 courses	190	160	75		425

Training Programmes for Extension Personnel (Jan-Dec, 2025)

Discipline	No. of training prog and Course (No.)	Extension Functionaries (Nos.)			
		On	Off	Spon.	Total
Agronomy	1 no./ 2 course	15	-	-	15
Horticulture	1 no./ 2 course		20	-	20
Animal Science	1 no./ 2 courses	20	-	-	20
Plant protection	1 nos./ 2 courses	15	-	-	15
Agriculture Extension	1 nos./ 2 courses	25	-	-	25
Total	5nos/10 courses	75	20	-	95

Extension Programmes/Activities (Jan-Dec, 2025)

Sl. No.	Extension Programme/ Activity	Nos. Proposed	Beneficiaries (No.)				Total
			Farmers	Extn. Personnel	Rural Youth	Others	
A.	Field trips and Visits						
1	Field visits to farmers filed	79	1200	-	110	-	1310
2	Exposure visit	2	35		20		55
3	Diagnostic visit	70	1500	40	50		1590
4	Farmers visit to KVK	20	900	50	120		1070
5	Group Meeting	30	580	-	100	-	680
6.	Advisory services/ telephone talk	59	978	-	210		1188
B.							
1	Farmers scientist interaction	20	1100	-	200		1300
2	Method demonstration	9	200	50	70		320
3	Field day	9	400	25	40		465
4.	Film show	30	1000	100	200		1300

Extension Programmes/Activities (Jan-Dec 2025)

Sl. No.	Extension Programme/ Activity	Nos. Proposed	Beneficiaries (No.)				Total
			Farmers	Extn. Personnel	Rural Youth	Others	
C.	Mass outreach program						
1	Radio talk	-	-	-	-	-	-
2.	Newspaper coverage	12	12000	-	1000	-	13000
D.	Camps and Campaigns						
1	Soil health camp	-	-	-	-	-	-
2	Animal health camp	1	100				100
E.	Publications						
1	Extension literature	2	1000	25	25		1050
2	Research publications	2					
3	Leaflet/folders	6	1500	50	350		1900
4	Farmers' Seminar						
5	Kishan Goshthi						
6	Celebration of Important day	5	450	50	100	-	600
	Total	356	22943	390	2595	-	25928

Seed Materials

Seed Materials	Crop	Variety	Proposed quantity (in quintal) to be produced (both at KVK farm and farmers field)	Current Value (Rs.)	To be provided/supplied to (Expected No. of farmers)
Cereals	Millet	SiA 3085	2		10
Oilseeds					
Pulses	Pea	Arkel	2.5		50
Vegetables	Potato	*Kufri Joyti*	8		10
Flowers					
Others					
Total	3		12.5		70

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	Kiwi cuttings		1000		20
Spices	Chilly	SONA TEJ	8000		200
	King chilli	Local	6000		100
Forest Species	Alder	*Alnus nepalensis*	3000		50
Vegetables	Cabbage	*Rare ball*	5000		60
	Pak choi		5000		100
	Broccoli	Green magic	5000		60
	Knol khol	*Early white vieena*	3000		60
	lettuce	Grand rapids	6000		100
	Radish		6000		100
Total	**10**		**48000**		**850**

Bio-products

Item	Product Name	Species	Proposed quantity to be produced (both at KVK farm and farmers field)		Current Value (Rs.)	To be provided to (Exp. No. of farmers)
			No.	Kg.		
Bio-agents						
Bio-fertilizers	*Azolla*	*Azolla carioliniana*		500		10
	Vermi-compost			1000		10
Bio-pesticides						
Livestock strains/ fingerlings (Nos. in lakh)						
Total				400		20

Mobile Advisory for Jan-Dec 2025

Message type sent	Crop		Livestock		Weather		Marketing		Awareness		Other Enterprise		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary	No. of Message	No. of Benef Iciary	No. of Message	No. of Benef iciary	No. of Mes sage	No. of Benefi ciary
Text only	30	3200	30	2000	12	8000	12	4000	40	1200 0	30	1200	127	30400
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	30	3200	30	2000	12	8000	12	4000	40	1200 0	30	1200	127	30400


Thank you