KVK, (District Siaha)

(DIRECTORATE OF AGRICULTURE(R&E)

(Estd: 2008)

On Farm Trials

(2017-18)

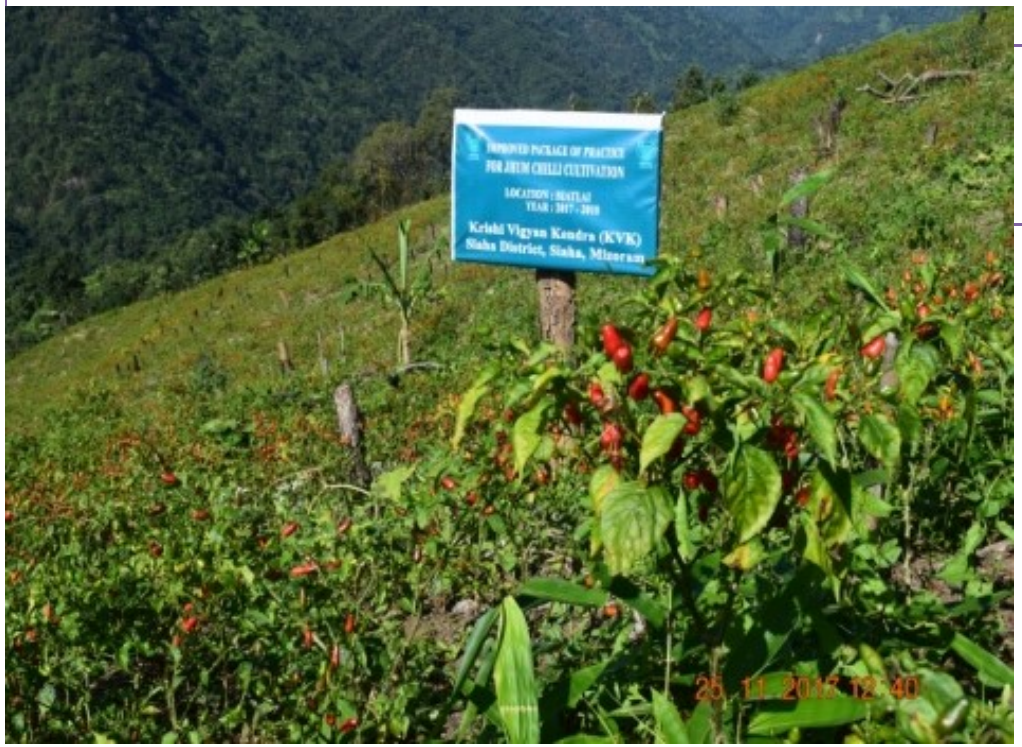
On Farm Testing (Discipline-Wise Summary)

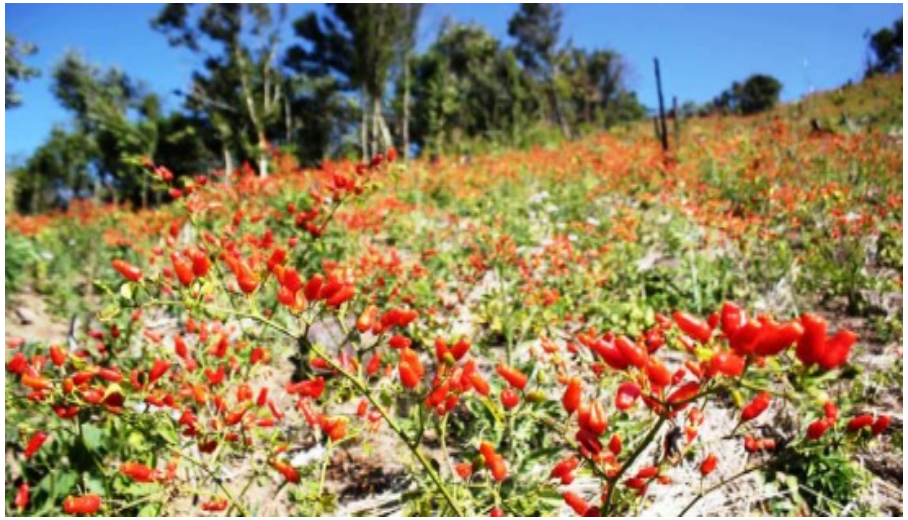
Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achieve-ment	Reasons for shortfall, if any
		Assessed	Refined	Target	Achieve-ment		
Horticulture	Improved package of practices on Cultivation of Chilli under Jhum condition.	1	-	3	-	100	Nil
	Cultivation of Capsicum under protected condition.	1	-	3	-	100	Nil
Plant Protection	IDM on Yellow Vein Mosaic Disease in Okra	1	-	3	-	100	Nil
	Management of Bacterial wilt of Tomato	1	-	3	-	100	Nil
Soil Science	INM & their effect on yield of Broccoli	1	-	2	-	100	Nil
	Effect of different organic materials on the growth and yield of ginger.	1	-	2	-	100	Nil
	Yield response of cabbage to varying levels of chemical fertilzers	1	-	3	-	100	Nil
AH & Vety	Performance of Turkey birds raised under scientific intervention in Saiha District.	1		5	5	100	Nil
	Trial rearing of Rhode Island Red	1	-	3	-	Ongoing	-
Agri. Extension	Impact of mass media in transfer of Agricultural technology .	1	-	2	-	100	Nil
	Marketting channel of pigerry	1	-	2	-	100	Nil
Total		11	-	33	-	100	Nil

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

Crop / Enter prise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
Chilli	Jhum condition	Low yield due to non adoption of improved package of practices	•Seed treatment •Proper spacing • Log wood bunding •Recommended dose of fertilizer • Weedicides •Intercultural operations	Package of practices on cultivation of Chilli under Jhum condition. (SOT) ICAR-RC (NEH)	3	a) Plant height b) Fruit length c) Average fruit weight d) Average Yield.	1.2 m 3 cm 3g 9.6 q/ha	1,70,000	2.5
						Farmer Practice	**Farmer Practice**		
						a) Plant height b) Fruit length c) Average fruit weight d) Average Yield	1 m 2 cm 2 g 7q/ha	1,10,000	1.8





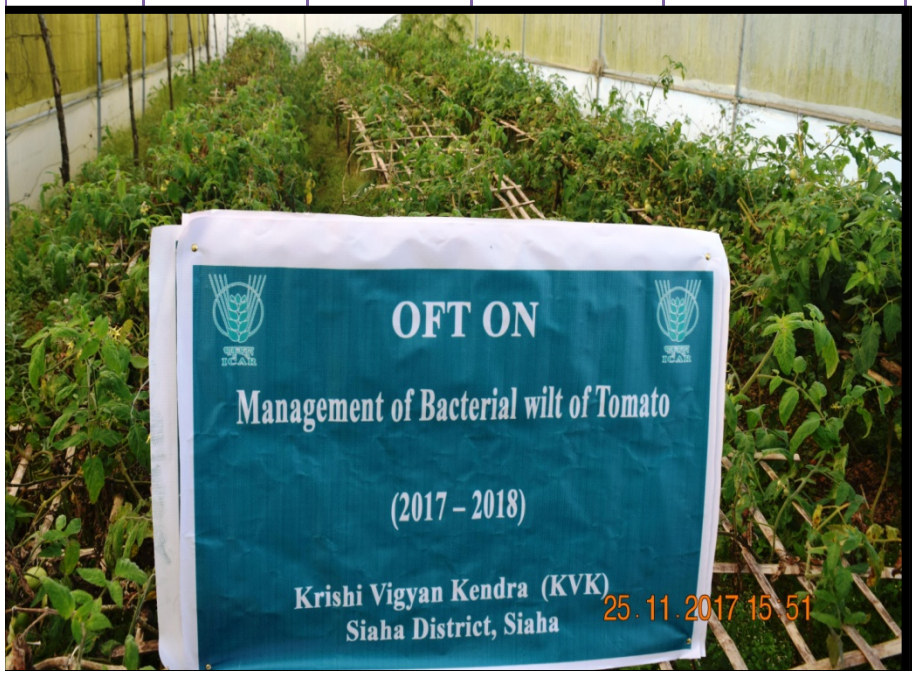
On Farm Testing (Discipline-wise achievements)

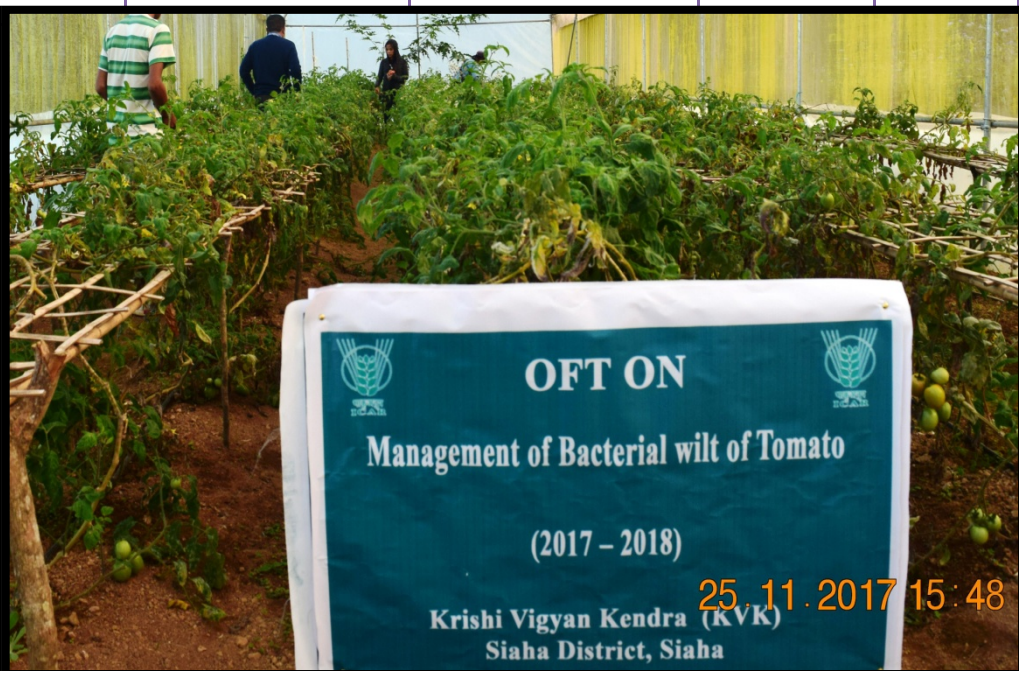
Discipline: Horticulture

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
Capsicum	Protected cultivation	Low yield of capsicum in open condition	•Protected cultivation of Capsicum.	Protected cultivation of Capsicum (SOT) IIHR	2	a) Plant height. b) Avg. fruit weight. c) Average Yield. d) Duration.	a) 55.6cm b) 118g c) 90qt/ha d) 70 days	₹2,70,000	2.5
						Farmer Practice	**Farmer Practice**		
						a) Plant height. b) Avg. fruit weight. c) Average Yield. d) Duration.	a) 38.4cm b) 90g c) 65 qt/ha d) 90 days	₹1,90,000	2.2

On Farm Testing - Discipline: Plant Protection

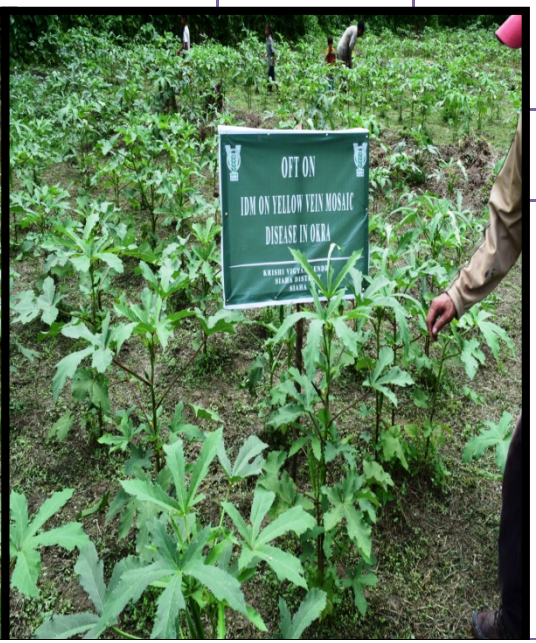
Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
Tomato		Severe incidence of bacterial wilt resulting on low yield	1. Spraying with Streptomycin @ 0.2g/lt of water 2. Growing of resistant var. Arka Rashak.	Management of Bacterial wilt of tomato	3	a) Yield b) % of disease incidence c) Cost of Culti-vation d) Gross return e) Net return f) Yield increase	On going		
						Farmer Practice	**Farmer Practice**		
						a) Yield . b) % of disease incidence c) Cost of Culti-vation d) Gross Return	On going		





On Farm Testing - Discipline: Plant Protection

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
okra	Broad based terrace cultivation	Low yield due to YVM disease	a) Use of IDM resistant variety arka Anamika b) Spraying with Chlorpyriphos @ 2.5ml.+neem 2ml/lt of water.	IDM on Yellow Vein Mosaic Disease in Okra (TNAU, Tamil Nadu, 2011)	3	a) Yield b) % of disease incidence c) Cost of Cultivation d) Gross return e) Net return f) Yield increase	a) 63q/ha b) 5% c) ₹ 75,000 d) 1,89,000/- e) ` 1,11,000/- f) 16.7%	₹ 1,14,000	2.52
						Farmer Practice	**Farmer Practice**		
						a) Yield . b) % of disease incidence c) Cost of Cultivation d) Gross Return	a) 54 q/ha b) 37% c) 86,000/- d) 1,62,000	₹82,000/-	1.88



On Farm Testing (Discipline-wise achievements)
Discipline: Agricultural Extension

Crop/ Livestock/ Other enterprise	Problem diagnosed	Technology/ methodology/ Social Concept	Title of OFT	No. of respondents	Parameters on Assessment/ Refined (Pl. mention)	Results in selected parameters (% increase/ Change in parameters)	Remark
					Technology / methodology	**Technology / methodology**	
Marketing channel	Absence of proper record ofnmarketing channel of piggery.	Survey and proper documentation of marketing channel of piggery.	Marketing channel of piggery.	10	1. No.Of piglets 2. Cost of production for 12 months. 3. Gross return 4. Profit	1. No.Of chicks:10 2. Cost of production for 12 months: 3. Gross return: 4. Profit:	From the survey, we can conclude that pig rearing is still very much profitable and worth practicing in the district.
Impact of mass media in transfer of technology.	NA	Survey and proper documentation of transfer of technology through mass media .	Impact of mass media in transfer of technology.	Mass	On going	On going	-

On Farm Testing (Discipline-wise achievements)

Discipline: Soil Science

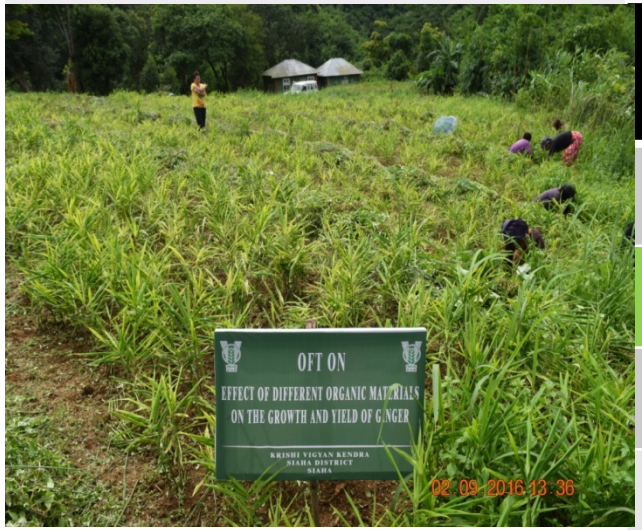
Crop / Enterprise	Farming Situation	Problem diagnosed	Techno-logy (give details)	Title of OFT	No. of trials	Parameters on Assessment	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)
Broccoli	Broad based terrace cultivation	Low yield of broccoli due to improper fertilization	**Treatments :** 1)Vermicompost : 1 t/ha + FYM : 10 t/ha + NPK : 50 % 2) Vermicompost : 1 t/ha + FYM : 10 t/ha + NPK : 100 % 3) Vermicompost : 1 t/ha + Lime : 2 t/ha 4) Vermicompost : 3 t/ha	INM and their effect on the yield of Broccoli	3	a) Plant height b) curd size c) Curd weight d) Yield	**a) Yield = 82.1 q/Ha** Gross return = ` 2,46,300 Gross Cost = ` 1,05,000 **a) Farmers' yield = 47.2 q/Ha** Gross return = ` 1,41,600 Gross Cost = ` 72,000	` 1,41,300 ` 69,600	2.35 1.97

Treatments	Plant height (cm)	Curd size/ dia (cm^2)	Curd weight (g)	Yield (q/Ha)
T1	49.6	13.8	214.0	74.5
T2	52.4	14.6	236.3	82.1
T3	45.7	12.4	171.6	67.2
T4	43.7	11.6	154.2	58.5
Control	31.3	10.2	19.6	47.2

On Farm Testing (Discipline-wise achievements)

Discipline: Soil Science

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)
Ginger	Broad based terrace cultivation	Low yield due to soil Infertility	**Treatments :** 1) Vermicompost : 2.5 t/ ha 2) Swine manure : 1.25 t/ ha 3) Cowdung manure : 10 t/ ha	Effect of different organic materials on the growth and yield of ginger.	3	See table	a) Yield = 15.29 t/Ha Gross return = ` 3,82,250 Gross Cost = ` 1,35,000 a) Farmers' practice yield = 9.13 t/Ha Gross return = ` 2,28,250 Gross Cost = ` 1,05,000	` 2,57,250  ` 1,23,250	2.83 2.17



Treatments	Plant height (cm)	No. of leaves/ clump	No. of tillers/ clump	Fresh rhizome yield (t/ha)
FYM	43.32	102.93	13.20	15.20
Vermicompost	47.69	132.87	14.33	15.29
Swine manure	35.83	99.47	11.93	13.08
Control	21.72	68.34	8.44	9.13

On Farm Testing (Discipline-wise achievements)

Discipline: Soil Science

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment	Results/ observation on selected parameters	Net return (Rs/ha)	B:C Ratio (GR/GC)
Cabbage	Broad based cultivation	Low yield of Cabbage due to improper fertilization	**Treatments :** 1) T1 : 140:140: 140 NPK kg/ha 2) T 2 : 70:70:70 NPK kg/ha 3) T 3 : 35:35:35 NPK kg/ha 4) T 4 : Farmers practice	Yield response of cabbage to varying levels of chemical fertilizers	3	See Table	a) Yield = 21.04 t/Ha Gross return = ` 5,26,000 Gross Cost = ` 1,70,000 **a) Farmers' yield** = 9.73 t/Ha Gross return = ` 2,43,250 Gross Cost = ` 86,500	` 3,56,000 ` 1,56,750	3.09 2.81

Treatments	Plant height (cm)	No. of leafs	Curd size/ dia (cm^2)	Curd weight (g)	Yield (t/Ha)
T1	28.6	11.2	14.6	1023.5	21.04
T2	21.9	10.6	12.7	932.6	17.32
T3	17.3	9.2	11.3	756.4	12.43
Control	14.2	7.4	8.7	487.8	9.73

OFT :Discipline AH & Vety

Livestock / Enterprise	Problem diagnosed	Title of OFT	Technology/ Social Concept	No. of trials	Parameters of assessment/refinement and its data in bracket	Results/ observation on selected parameters	Net return (Rs/Units)	B:C Ratio (GR/GC)
Turkey	No practice of turkey farming in the district	Performance of Turkey birds raised under scientific intervention in Saiha District.	Intervention with scientific farming practices	5	a) Initial wt. at 2 weeks of age b) Monthly wt. increment (M) c) Monthly wt. increment (F) d) Expected age at first laying e) Adaptability f) Wt. at 4 months of age (M) g) Wt. at 4 months of age (F) h) Wt at 12 months of age	a) 50 g b) Avg. 1 Kg c) Avg. 800 g d) 7 mts e) Good f) Avg. 4 Kgs g) Avg.3.2 Kgs h) Avg. 9 kg's	Rs, 8,300	1:5
Rhode Island Red	Not available in the district	Trial rearing of Rhode Island Red birds	Evaluation on the performance of the birds through scientific intervention	3	a) Adaptability b) Monthly body weight increment	Ongoing	Ongoing	Ongoing