Krishi Vigyan Kendra, East Sikkim, ICAR, Sikkim Centre, Ranipool- 737135, Sikkim

1. Name of the Regional Centre / Division/ Section

Krishi Vigyan Kendra, East Sikkim, ICAR, Sikkim Centre Ranipool- 737135, Sikkim

2. Area of Work (with achievements) not more than one page (Last five year summation)

- a. Training
- b. OFT
- c. FLD
- d. Extn. Activities

a. Training

Discipline	200	07-08	20	08-09	20	009-10	20)10-11	20	011-12	T	otal
	NT	NP	NT	NP	NT	NP	NT	NP	NT	NP	NT	NP
Crop	04	140	13	234	08	184	32	559	13	1023	70	2140
Production												
Horti-	03	100	02	65	5	65	11	281	9	242	30	753
culture												
Livestock	05	200	06	173	03	101	03	82	09	256	26	812
Plant	05	202	07	134	08	110	03	81	02	55	25	582
Protection												
Home	11	153	05	126	04	75	06	227	06	171	32	752
Science												
Agril.	05	286	08	252	08	252	17	431	14	276	52	1497
Extn.												
R.Y	05	155	14	284	14	284	41	546	05	693	79	1962
Extn.	02	34	01	30	01	30	02	51	06	194	12	339
Functioning												
Soil Sc.	-	-	-	_	-	-	04	222	08	481	12	703
Sponsor	_	-	12	329	01	63	07	77	09	315	29	784
Trng.												
Total	40	1270	68	1627	52	1164	126	2557	81	3706	367	10324

Note: NT –No. of Trainings NP –No. of Participants

a. OFT

Discipline	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Crop Production	03	10	09	12	10	44
Horticulture	-	-	03	07	05	15
Live Stock	01	-	02	05	08	16
Home Science	-	01	01	05	01	08
Plant Protection	01	01	03	05	05	15
Plant Breeding	01	-	-	-	06	07
Extn.	-	-	-	-	01	01
Total	06	12	18	34	36	106

b. FLD

Discipline	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Crop Production	01	06	03	07	05	22
Horticulture	-	-	04	06	05	15
Live Stock	01	-	01	05	08	15
Home Science	-	01	01	01	01	04
Plant Protection	-	01	02	05	05	13
Plant Breeding	-	-	-	-	01	01
Extn.	-	-	-	-	01	01
Total	02	08	11	24	26	71

c. Extension activities

Activities	2007	-08	2008	-09	2009-	10	2010-	11	2011-1	2
	NA	NP	NA	NP	NA	NP	NA	NP	NA	NP
Field Days	07	630	03	226	04	108	04	275	08	454
Kisan Mela	01	750	02	510	01	650	-	-	05	183
Kisan Ghosthi	10	300	07	170	02	50	3	210	11	699
Exhibition	-	-	-	-	01	812	-	-	-	-
Film Show	04	390	02	153	01	72	04	100	-	-
Method	10	141	06	70	45	45	07	100	-	-
Demonstration										
Farmers Seminar	02	72	-	-	03	101	-	-	-	-
Group Meetings	09	270	03	90	06	55	05	101	-	-
Newspaper	03	-	-	-	-	-	23	-	-	_
Coverage										
Radio Talk	-	-	-	-	-	-	09	-	14	-
TV Talks	02	-	04	-	-	-	-	-	07	-
Scientific visit to	58	810	31	285	142	426	155	678	-	-
farmers field										
Diagnostic visit	06	60	92	399	45	52	32	545	143	1452
Exposure visit		-	02	60		-	01	15	02	16
Ex-trainees	-	-	-	-	02	70	05	120	-	-
sammelan										
Soil health camps	04	117	-	_	-	-	-	-	-	-

A • 11 1/1	07	150	1		02	20	02	70	0.2	202
Animal health camps	07	159	-	-	02	30	02	70	03	302
Farm science club	06	150	03	130	08	64	08	90	12	292
SHG conveners	09	240	06	180	11	132	07	84	18	468
meetings Celebration of	01	60	01	95	02	42	02	90	_	_
important days										
Lecture delivered as resource	11	-	06	100	-	-	11	469	100	-
Extension literature	15	240	06	32	-	-	08	-	15	1522
Advisory services	06	180	03	60	_	_	215	545	182	182
Farmers visit to KVK	19	270	14	359	-	-	27	130	185	1003
Mahila Mandal Conveners	08	210	05	84	-	-	05	66	10	278
Popular article	03	_	_	_	_	_	_	_	20	_
Soil test	06	209	-	-	-	-	-	-	-	-
campaign									101	1.550
Field visit	-	-	-	-	-	-	-	-	181	1573
Agriculture camp	-	-	-	-	-	-	-	-	7	-
AI of cattle at farmers field	-	-	-	-	-	-	-	-	69	69
Soil sampling at farmers field	-	-	-	-	-	-	-	-	92	92
Treatment of Cattle, Goat &	-	-	-	-	-	-	-	-	38	128
Poultry Establishment of Sikkim Mandarin	-	-	-	-	-	-	-	_	02	02
nursery at KVK Development of	_	-	_	_	_	_	_	_	02	02
vegetable nursery at KVK										
Development of model IFS at KVK farm	-	-	-	-	-	-	-	-	03	03
Land preparation for upland paddy	-	-	-	-	-	-	-	-	01	01
Awareness camp	_	-	_	_	_	-	_	-	02	75
		1	_1	1	1	1	1		1	

Note: NA- No. of Activities NP- No. of Participants

3. Technology intervention available for farmers.

INM- Green manuring (Daincha & Green gram).

- Introduction of bio-fertilizer like Nalpak and Anandam.
- Cultivation of HY Rice varieties like- Sasharam, Gitanjali, Pusha Sugandha-, SRI in Rice.
- IPM/organic pest and disease management.
- Control of Stem borer & leaf eating caterpillar through Neem Oil.
- Popularization of HQPM and baby corn.
- Production and application of vermicompost.
- Introduction of HYV of millet like VL-315.
- Introduction of HYV of Potato K. Jyoti & K. Megha.
- Use of neem cake & dolomite as soil amendment.
- Rain water harvesting to use in lein period.
- Use of HYV of Mustard like- M-27, TS-38 and TS-46.
- Use of HYV of pulses like- Pratap in Green gram and T-9 in Black gram.
- Relay cropping in Maize like Ricebean and Cowpea.
- Orange rejuvenation.
- Use of disease free planting material
- Rhizome treatment with GF3 botanicals for control of soft rot disease.
- Use of Trichoderma for Organic Disease Management
- Sikkim Mandarin Nursery Management.
- Organic Ginger production technology.
- Broiler Poultry Production.
- Enhancement of the Maize productivity through introduction of HQPM.
- Application of Bordeaux mixture during winter and early summer.
- Spray of neem oil @ 5ml/lit. at bud burst stage.
- Use of pheromen trap for fruit fly control
- Selection of nucellar seedling.
- Secondary nursery management.
- Use of disease resistance varieties of Large Cardamom.
- Removal and destruction of old pseudo stem.
- Production of disease free planting material and its nursery management
- Use of resistant HYV in Banana.
- Use of HYV/Hybrid of Tomato.
- Organic treatment of seed by Trichoderma of vegetable & fruits.
- Cross breeding with Jersey.
- Silage Making.
- Deworming of Cows.
- Cross breeding with exotic Pig breed.
- Introduction of improved dual purpose breed like Vanaraja, Giriraja and Gramapriya.
- Proper brooding in Poultry.
- Vaccination of FMD, swine fever in Cattle and Pig.
- Income generation for empowerment of rural women through cushion and cushion cover making.
- High nutrient efficiency for diet for women & children
- Low cost winning food.

- Post harvest management & preservation of vegetable and fruits.
- Application of Dolomite for reclamation of acidic soil.
- Use of Maize Sheller & Paddy Thresher.
- Use of hand hoe for weeding.
- Use of sprayer & duster.
- Mobilization of social capital through SHG.
- Gender main streaming through SHG.
- Formation & Management of SHG.

KVK Sikkim, Action Photos















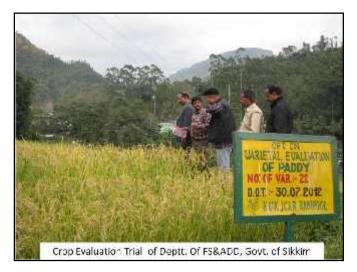
















Best KVK Award (Zone III): KVK, East Sikkim has been conferred with this award by ICAR in the 6th National Conference of KVKs held during 3-5 December, 2011 at JNKVV. Johnhoure







Biotechnology led organic farming in North Eastern Region DBT, GOI- Demonstration

Sponsoring Agency for training programmes

(2008-09) and (2009-10)

- 1. MM-1 Sikkim Centre
- 2. DST- Govt. of Sikkim
- 3. NAIP-III Sikkim Centre
- 4. Co-operative Society, Govt. of Sikkim
- 5. TMI & SRDA- Govt. of Sikkim
- 6. ATMA (East), Deptt. of FS&ADD, Govt. of Sikkim

2010-11

- 1. IGNOU, Tripura
- 2. NABARD, Gangtok, Sikkim
- 3. SAMETI, Deptt. of FS&ADD, Govt. of Sikkim

2011-12

- 1. SIBIN
- 2. Indian Institute of Crop Processing Institute
- 3. Ministry of Food & Processing Industries, Govt. of India
- 4. Deptt. of AHLF & VS, Govt. of Sikkim.
- 5. ATMA, East Sikkim
- 6. Forest Department, Govt. of Sikkim
- 7. SAMETI, East Sikkim
- 8. NABARD, Gangtok
- 9. Deptt. of FS&ADD., Govt. of Sikkim.
- 10. Deptt. of Fishery

List of special programmes under taken by the KVK which have been financed by State Govt./ Other Agency.

Sl. No	Year	Name of the Scheme	Date/ month of initiation	Funding Agency	Amount (Rs.)
1	2009-10	Store Grain Pest Management	March 2010 (3 days)	IGNOU Tripura	85,000.00
2		Training Programme on Poultry farming as a component of Integrated Farming System	25.03.11	SAMETI East Sikkim	13,500.00
3	2010-11	Marketing of agricultural produce	5 & 6 July 2011	IGNOU Tripura	25,000.00
4	2010 11	Dairy Management	7 & 8 July 2011		
5		Feeding Management of Pig & Poultry by using locally available low cost feed resource	26.03.11	SAMETI East Sikkim	13,500.0
7	2011-12	DBT led organic farming in NE Region	Sept.2010	Deptt. Of Biotechnology. Govt. of India	20,06,000.00
8		National Initiative on Climate Resilient Agriculture	March 2010	ICAR	30,35,000.00
9		National Agriculture Innovative Project (NAIP-III)	March 2009	NAIP-ICAR	2,50,000.00
10		Frieswal Progeny Testing Project	August 2009	Project Directorate cattle (ICAR)	8,50,000.00
11		Exposure visit of progressive farmers/farm women to CRRI, Cuttack and other ICAR institute in Bhubhaneshwar (\$ nos)	14-21 March 2012	NABARD (R.O.)Gangtok	81,000.00
12		Training entitled "Skill Development Programme on Cushion Cover Making at Nandok"	12-17 March 2012	NABARD (R.O.)Gangtok	21,200.00

Details of Linkage

Activities	Convergence activities with different line departments
Projects	
Development and maintenance of rice knowledge management portal (RKMP)	NAIP I
Collection, documentation and validation of ITKs under sustainable farming system	NAIP III
Frieswal Progeny Testing Project during August 2009	Project Directorate on cattle, Merrut, (ICAR)
DBT led organic farming in NE Region during Sept.2010	Deptt. Of Biotechnology. Govt. of India
National Initiative on Climate Resilient Agriculture during March 2010	Indian Council of Agricultural Research (ICAR)
Workshops/Summer school/ Technology wee	k/ Seminar/ Meetings etc.
Technology Week 2009	Conducted in collaboration with NHB, SIMFED, Sikkim Milk Union and NABARD.
Summer school on <i>Entrepreneurship</i> development under sustainable farming system was organized during 2009	Sponsored by ICAR
Organized a day long workshop on <i>Awareness</i> and <i>Convergence Workshop</i> under NICRA at Nandok village, East Sikkim on 11 th April, 2012 to develop awareness among all the stakeholders including farmers (200 nos.) regarding the <i>Climate Resilient Agriculture</i>	All the line Departments attended the workshop. Shri K. T. Gyalsen, Hon'ble Speaker, Sikkim Legislative Assembly, Sikkim Inaugurated the programme as a Chief Guest.
State Level Stake Holders' Workshop on "Bridging Research to Extension: Strategies & Policies" (11-12 Oct. 2012) at ICAR RC for NEH Region, Sikkim Centre, Gangtok	All the Stakeholders including officials of different line departments of state and central Govt., NGOs, marketing agencies, farmers etc.
Sponsored trainings Store Grain Pest Management during March	IGNOU Tripura
2010 (3 days)	101100 Imputu
Marketing of agricultural produce on 5 th & 6 th July 2011	IGNOU Tripura
Dairy Management on 7 th & 8 th July 2011	IGNOU Tripura
Training for Butchers and other Meat and Poultry workers on "Slaughter House Improvement for Better	Training programme Sponsored by Indian Institute of Crop Processing Technology (IICPT), National Meat and Poultry

Quality Meat and Safer Environment" was organized on 8 th November, 2011.	Processing Board, New Delhi Ministry Food Processing Industries, New Delhi Deptt. of AH, LF & VS, Govt. of Sikkim
Training to the Extension Functionaries (EF) on "Poultry Based Integrated Farming System" on 25 th March 2011, "Computation of Economic Ration of Livestock Using Locally Available Resources" on 26 th March 2011 and "Feeding of dairy cattle" on 28 th March 2012	Sponsored by SAMETI, Deptt. of I &AD, Govt. of Sikkim on
Training entitled "Skill Development Programme on Cushion Cover Making at Nandok" during 12-17 March, 2012	NABARD (R.O.)Gangtok
One week long training programme from 31 st may – 5 th June, 2012 on "Livelihood Improvement through Poultry, Piggery, Goatery and Dairy Farming" for the farmers of the Indo-Nepal and Indo-Bhutan border.	Organized by Sashastra Seema Ba Gangtok Sector in collaboration wi KVK, ICAR, east Sikkim, Ranipool.
Training programme on "Hands on Agriculture" for newly recruited 18 nos. of Field Asstt. under Deptt of FS&AD, Govt. of Sikkim from 29 th October-29 th November, 2012 (one month).	Sponsored by Deptt of FS&AD, Govt. Sikkim
Imparted an Experiential Learning programme for final year B. Sc Horticulture students of Sikkim University from July-December, 2012 at the Saramsa Farm of KVK, Ranipool. Exposure visit	Sikkim University, Gangtok
Exposure visit of progressive farmers/farm women to CRRI, Cuttack and other ICAR institute in Bhubhaneshwar (15 nos) during 14-21 March 2012	NABARD (R.O.)Gangtok
Demonstrations	
Rabi demonstration programme (2010-2011) on mustard and cole crops.	Under the financial assistance of ATM East Sikkim.
HQPM Programme: HQPM seeds have been distributed in 17 villages covering an area of 34.61 ha with 573 farmers. The average yield of HQPM-1 was observed to be 53 q/ ha against the local check 42.3 q/ha.	ICAR Research Complex for NE Region, Umiam, Meghalaya
Varietal trial conducted at KVK- East Sikkim farm on paddy, Finger millet and mustard (2012-13)	Collaboration with FS&ADD, Govt. Sikkim.

Varietal trial conducted at KVK- East Sikkim farm on Soybean (2012-13) Technology demonstrations under ATMA (2012-13): Demonstration on Vivek QPM, upland paddy, HYV of Banana, acidic soil management through dolomite in maize, mixture supplement to dairy cattle, yield estimation of finger millet through broad casting and line sowing, organic nutrient management in Dalley chilli, HYV of okra and Azolla incorporation in paddy	Collaboration with ICAR Sikkim centre, Tadong, Gangtok Under the financial assistance of ATMA, East Sikkim.
Short Term Researchable Issues (2010-2011)	
 Organic amendment of soil through oilcakes (neem cake, GN cake, castor cake) Compost accelerator Varietal performance testing (Var. TS-46 under late sown condition) Medicinal value of local buckwheat Varietal performance of Straw Berry cultivation. Organic management of disease/ pest in ginger by using botanicals. Enhancing the crop intensity and testing the suitable cropping sequence 	Sponsored by ATMA, East Sikkim
Short Term Researchable Issues (2011-2012)	
 ITK validation for red ants control in cole crops Organic control of leaf blight in tomato Control of ginger rot through Trichoderma spp. Management of rice blast by application of Tulsi/ Bael extract @25 gm/litre of water Brewery waste for animal feed Fish farming in Jalkund Short Term Researchable Issues (2012-2013) 	Sponsored by ATMA, East Sikkim
• Blight disease management in large	Sponsored by ATMA, East Sikkim
 cardamom though <i>Trichoderma</i> sp. Varietal performance of pineapple under low hills Formulation of balanced ratio for dairy cattle by incorporation of spent malt. Winter management of backyard poultry. Drought resistant variety of mustard 	

Varietal trial on Buck wheat	
Multi locational trial on horse-gram	
Resource person trainings	
Organic production technology of baby corn on 10 th Feb, 2011 at Pakyong, Gangtok	Organized by SAMETI and sponsored by ATMA
Slaughter house improvement for better quality meat and safer environment for butchers of Sikkim on 26 th July, 2011	Indian Institute of Crop Processing Institute, Ministry of Food Processing Industry, Govt of India
Dairy management and production on 18 th November, 12	Deptt. of A.H. LH & VS, ATMA, East Sikkim under ATMA
Backyard poultry production on 19 th November, 12	Deptt. of A.H. LH & VS, ATMA, East Sikkim under ATMA
Bio- security in poultry farming on 28 th November, 12	Deptt. of A.H. LH & VS, ATMA, East Sikkim under ATMA
Workshop on "Poultry farming with improved birds" on 8 th February,12	Invited by Deptt. of Forest, Govt. of Sikkim
Training to the EF of Deptt. of AH, LF & VS, Govt. of Sikkim on "Hatchery Management" on 23 rd May, 12 "Scientific feeding and disease management of pig" on 25 th June, 12 and "Preparation value added chicken meat" on 29 th august, 12	Invited by Deptt. of AH, LF & VS, Govt. of Sikkim
Training for the farmers and rural youth of different villages of East Sikkim on "Scientific pig farming" on 8 th June, 12, "Production and processing of value added poultry products" on 22 nd June, 12, "Scientific goat farming" on 26 th June, 12, "Production of clean milk and demonstration of milking method" on 25 th July, 12 and "Scientific dairy management" on 30 th August, 12	Invited by Deptt. of AH, LF & VS, Govt. of Sikkim under the sponsorship of ATMA, East Sikkim
Training to the farmers on "Rural Poultry Production with Improved Birds" in different villages of East Sikkim viz. Barapathing, Lok Chujasenpur, Lingtam Q-khola on 1 st , 2 nd , 3 rd August, 12 and North Sikkim viz. Lower Dzongu, Lingdam and 4 th Mile on 2 nd , 3 rd and 4 th 2013 repectively.	Invited by Deptt. of Forest., Govt. of Sikkim under IWMP project
Training programme on "organic disease and pest management" during 27 th -28 th February, 2013	Organized by Sibin (NGO) and sponsored by NHP

Training on tillage management in paddy on 5 th May, 2012	Deptt. of FS &AD, Govt. of Sikkim
Training on Ginger and Sikkim mandarin on 9 th July, 2012	Under ATMA, east Sikkim
Training on SRI at Rey Mindu 9 th May, 2012	NABARD sponsored under UPAS, Gangtok
Exploration and collection of germplasms	
An exploration and Collection of <i>Alliums spp</i> . (Wild and Cultivated) germplasm from four districts of Sikkim including Sub Division of Darjeeling, West Bengal was made during September 07-22 nd , 2012	A collaborative mission under undertaken by NBPGR, R/S Bhowali; Directorate of Onion and Garlic Research, Rajguru Nagar, Pune (MS) & KVK (ICAR, Sikkim Centre), Ranipool, East Sikkim
An exploration and Collection of <i>cucurbitaceous crops</i> (Wild and Cultivated) germplasm from four districts of Sikkim was made during October, 2012.	IIVR, Varanasi, NBPGR, New Delhi in collaboration with KVK, East Sikkim, Ranipool