



KRISHI VIGYAN KENDRA, SOUTH TRIPURA

(ICAR Research Complex for NEH Region)

(Estd: 1984)



SIGNIFICANT ACHIEVEMENTS (2007-10)

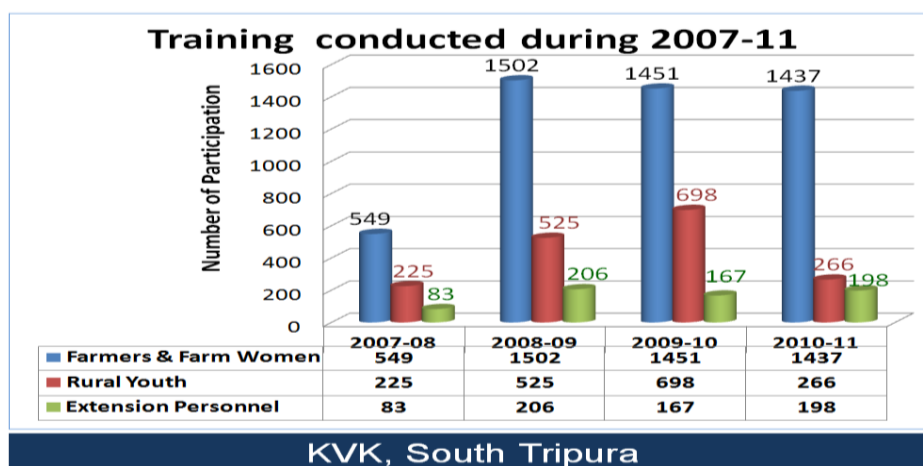
1. TECHNOLOGY DEMONSTRATION

- i) **EMPLOYMENT GENERATION THROUGH PRODUCTION OF AMRAPALI MANGO PLANTING MATERIALS BY RURAL YOUTH IN SOUTH TRIPURA:** KVK developed the skills of rural youth for grafting of mango planting materials and as a result every year 50-60 farmers producing about 5000 - 10000 mango planting materials by each youth farmer and earning about Rs. 20000-100000 per year. The trained youth farmers are also getting employment in the private nursery of Tripura during May-July every year and earning about Rs. 15000 – 25000 per year. In the vicinity of KVK, 43 youth farmers have well developed mango nursery.
- ii) **EXPANSION OF GROUNDNUT AREA IN RAINFED FARMING SYSTEM OF SOUTH TRIPURA:** KVK has trained farmers of the district for cultivation of groundnut both in kharif (upland area) and rabi (lowland areas) through FLDs, training and awareness programmes during 2007-10. The number of farmers increased from 7 (2006-08) to 55 (2009-10) in three year of demonstration covering three blocks of the district. Using the improved variety (GG-20, GG-7 and TG-37A) with scientific package of practices farmers obtained average yield up to 1900 kg/ ha (60 % higher than local variety). Farmers are earning additional income up to Rs.24,500/- per ha with a BC ratio of 2.88.
- iii) **IMPROVEMENT OF PULSE PRODUCTION IN SOUTH TRIPURA:** Improved variety of Lentil (WBL-58), Green gram (HUM-16) and Red gram (UPAS-120) were demonstrated covering five blocks of the district. The yield percentage increased from 21.43 to 40 per cent and getting up to Rs. 43,000/ha by selling pulses crops.
- iv) **POPULARISATION OF SYSTEM OF RICE INTENSIFICATION IN BORO PADDY:** KVK has conducted FLDs and OFTS and number of trainings on SRI Techniques along with INM and IPM. Farmers of five blocks has adopted the technology and now boro paddy is being cultivated successfully using SRI techniques along with INM and IPM for nutrient and pest management. Preferred variety of paddy under SRI are Naveen, Samba masuri, Pusa-44 & BPT 5204, Hybrid (6129/644), Gumati, etc. The yield increase to the tune of 20 -27 % has been recorded after the use of SRI technology.
- v) **INTEGRATED PEST AND DISEASE MANAGEMENT :** KVK spreading the technology of IPM/IDM and as a result farmers has been trained to control leaf folder in rice, cut worm in cabbage and shoot & fruit borers in brinjal crops through IPM/IDM.
- vi) **POPULARISATION OF MUSHROOM PRODUCTION:** Farm women of the district are being trained to start mushroom cultivation at their house. More than 91 farm women and about 11 SHG are producing mushroom under the supervision of KVK.
- vii) **POPULARISATION OF USE OF VERMICOMPOST:** Techniques of vermicomposting is being demonstrated to the farmers and many Vermicomposting units (*constructed by Spices Board and State Horticulture department*) are now operational with the help of KVK. Earthworm is also being supplied to the farmers by the KVK.
- viii) **SCIENTIFIC REARING OF DUAL PURPOSE POULTRY BIRDS AND DUCK:** New breeds of poultry i.e. Gram Priya (180-200 eggs) and CARI-Nirbhic (120-130 eggs) and ducks are Khakhi Cambel (180 eggs/yr) and Vigova Super-M (60 eggs/yr & Meat) has been introduced.
- ix) **INTRODUCTION OF IMPROVED VARIETY OF VEGETABLES:** KVK successfully popularized improved variety of vegetable crops like Cowpea (Var. Kashi Kanchan), Tomato (var. Allrounder), Cabbage (var. BC

76, Quisto), Cauliflower (var. Suhasani) and Okra (SG-152, Arka Anamika) along with IPM & IDM technology.

- x) **UPSCALING OF HOMESTEAD FARMING:** KVK has introduced homestead farming by integrating 6 enterprises together. Technology is being demonstrated in two farming situations covering 8 farmer families. Each farmer doing poultry (10-15 poultry), Goatary (2 nos.), Bee keeping (2 boxes), Vermicompost (1 unit), Mushroom farming (50 cubes) and horticulture (vegetable-spices-fruit).
- xi) **PIG-CUM-FISH FARMING:** KVK popularizing pig-cum-fish farming technology among tribal farmers of the district in both farming situations covering three blocks of the district.
- xii) **BACKYARD POND AQUACULTURE:** Pre - and post stocking technology of backyard pond aquaculture is being demonstrated in four blocks of the district.
- xiii) **USE OF SOIL HEALTH CARD:** Training on use of Soil health card being conducted for the farmers. Soil health card has been given to more than 500 farmers by ICAR under NABARD sponsored programs in the district.
- xiv) **CROP DIVERSIFICATION AND RAIN WATER MANAGEMENT IN MEDIUM AND LOWLAND SITUATION:** Farmers (7 days training) and Extension personnel (14 days training) has been trained for under SWPAL project, Ministry of Agriculture (GOI)
- xv) **COMMODITY FUTURE MARKET:** Conducted awareness programme for Rubber growers of the district.
- xvi) **FARMER'S WORKSHOP ON TECHNOLOGY GAP ANALYSIS:** More than 600 progressive farmers and farm women participated in a workshop entitled "Analysis of Technology Gap in Agriculture and Allied Sectors" during the year 2010 to identify the basic technological gaps in agriculture, horticulture, animals & poultry, fisheries and related enterprises.

2. TRAINING



3. FARMER'S GROUP FORMATION

Altogether 7 Farmer Interest Group has been formed during the year 2009-10 to disseminate the technology of agriculture and allied sectors to the farmers, farm women and rural youth of the district. These groups will be trained by the KVK and their service will be utilized for conducting trainings, workshop, preparation of village agriculture plan, implementation of FLD & OFT programmes, etc.

4. RESOURCE GENERATION ACTIVITIES

- i) Seed Production of Groundnut (GG20, GG7, ICGS 76)
- ii) Production of Quality Mango Planting Materials (var. Amrapali)
- iii) Earthworm production for vermicompost

5. INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

- i) KVK Website providing regular updates of KVK activities (www.kvksouthtripura.org.in)
- ii) Kisan Mobile Agriculture Advisory Services for 200 registered farmers
- iii) Online Weather based Agriculture Mangement
- iv) e-Newsletter (half yearly)

6. VILLAGE ADOPTED FOR TRANSFER OF TECHNOLOGY

In the year 2009-10, altogether 5 villages (Dudhpushkarni, Jamjuri, Devipur, Satchand, Phulkumari) was adopted to implement the various activities of the KVK.

7. SEED AND PLANTING MATERIAL PRODUCTION

Item	Crop	Variety
Field crops	Sesamum	B-67
	Groundnut	GG-20, GG-7, TG 37A
	Arhar	UPAS-120, Narendra-1
Fruits	Mango	Amrapali
	Lemon	Assam Lemon
Vegetables	Dioscorea	Local
	Elephant Foot yam	Local
	Colocassia	Local

8. SPONSORED PROGRAMME UNDERTAKEN

Sl/No.	Title of the Programme	Sponsoring Organization	Year	Status
1.	Farmer's Training & Demonstration Programme in Fisheries	NFDB	2008	Completed
2.	Comprehensive District Agriculture Plan	RKVY	2009	Completed
3.	Capacity building for Members of Farmer's Club in South Tripura through Training & Exposure Visit	NABARD	2009	Completed
4.	Upgradation of Homestead Farming in different farming system of South Tripura	NABARD	2009	On-going
5.	Integrated Pig-cum-Fish Farming	NABARD	2009	On-going
6.	Backyard Pond Aquaculture	NABARD	2009	On-going
7.	Establishment of Horticulture Nursery	MGNREGA	2010	On-going

9. PROGRAMME UNDERTAKEN UNDER HORTICULTURE MISSION

Sl/No.	Activity	Year	Details
1.	Establishment of Vermicompost Unit and method demonstration to the farmers and rural youth	2008-09	Setting up of a vermicompost unit (1.2 t capacity) for demonstration & Training
2.	Establishment of Mushroom unit and method demonstration	2008-09	Setting up of a mushroom unit (100 kg per season) for demonstration and training

10. RESOURCE GENERATION ACTIVITY UNDERTAKEN UNDER REVOLOVING FUND

Activity
Seed Production of Groundnut
Production of Quality Planting Materials of Fruit Crops
Establishment Mushroom and Vermicompost production

11. PUBLICATIONS

Resource Book

1. Integrated Water Management for Crop Diversification in Tripura, AK Singh, M. Datta & SV Ngachan

Research Papers

1. Soil Fertility Improvement Through Use of Organic Manures and Fertilisers in North Eastern Hill Region (2009), A.K. Singh and N.P. Singh, Abstracts of Papers, National Seminar on Sustainable Hill Agriculture, Feb 28--March 2, 2009ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat-795004, Imphal
2. Expansion of Groundnut Cultivation in Rainfed Farming System of North Eastern Hill Region (2009), A.K. Singh and N.P. Singh, Abstracts of Papers, National Seminar on Sustainable Hill Agriculture, Feb 28--March 2, 2009ICAR Research Complex for NEH Region, Manipur Centre, Lamphelpat-795004, Imphal
3. Knowledge Management for Improvement of Pulse and Oilseed Crop Cultivation in South Tripura-a case study, Mandira Chakraborti, A.K.Singh, M. Datta and N.P. Singh, International Conferences on "Agriculture Education and Knowledge Management" organised by IGNOU & IFPRI, USA, 24-26th August 2010, Agartala
4. Resource Conservation in Agriculture and its Scope in NEH Region, Mandira Chakraborti, A.K. Singh and M. Datta, National Seminar on "Biodiversity" organised by ARPAN, 5-7th June 2010, Agartala.

News Letter: KVK News (half yearly)

Vision documents: VISION 2020: Perspective Plan (Agriculture and Allied Sectors), South Tripura

District Profile: Resource Support System in Agriculture and Allied Sectors: South Tripura District.

District Plan: Comprehensive District Agriculture Plan (CDAP)-South Tripura

Extension Bulletins

1. Vermicomposting: Using earthworms to recycle farm & food wastes into organic fertilizer, Pub No.4
2. Moong Cultivation: A good source of protein and nitrogen Pub No.3
3. Arhar Cultivation: a cheapest source of protein Pub No.2
4. Groundnut: Income maximization and soil improvement Pub No.1
5. Badanm Chhas: Matir Urbarta Shakti o Krishke Ay Baranor ektiannatame upaoy
6. Tripurar Tilla Bhumite Arharer Chhas
7. Baiganik Padhhateti Moong Dal Chhas
8. Cultivation of Moong (in Bangla)
9. Improved Package and Practices of Blackgram (in Bangla)
10. Scientific Production Technology of Sesamum (In Bangla)
11. Cultivation of Mesta in Tilla Land (in Bangla)
12. Integrated Pest Management in Rice (in Bangla)
13. Scientific Way of Duck Rearing (in Bangla)
14. Scientific Way of Pig Rearing (in Bangla)
15. Avian Influenza (in Bangla)
16. Importance of Soil and Water in Fish Culture (in English and Bangla)
17. Technology for Fish Production in Tripura (in English and Bangla)
18. Composite Culture of Freshwater Prawn and Carps (in English and Bangla)
19. Fish Health Management and Disease Control (in English and Bangla)
20. In Fish Culture: What to do? When to do? (in English and Bangla)

Technical Bulletins

1. Production of Mango Planting Materials by Youth Farmers of South Tripura

Popular Articles

1. Pulse Cultivation in Tripura-Constraints & Solution, Tripura Times, Vol No.48, Issue No. 115, 19th Feb 2011.

Training Manual

1. Crop diversification & Rainwater Management in Medium and Lowland Situation