REVISED PROFORMA FOR ANNUAL REPORT – 2008-09

1. GENERAL INFORMATION ABOUT THE KVK

| | 1.1. Name and address of I | | of KVK wi | KVK with phone, fax and e-mail | | | | P 1 | | | | |
|------------|----------------------------|-----------------|----------------------|--------------------------------|-------|----------------|------------|-----------------|---------------------------|-----------------|-------------------------|----------------------------|
| | Address | | | Те | leph | ione | | E mail | | | | |
| | KVK Yisemvo | na | OFF | ICE | | FAX | | | | | | |
| | Post Box No-2 | 23 | 0369 | 0369-2226537 | | 0369-2227627 | | kv | kmokokch | una@amail | .com | |
| | Mokokchung Na | agaland | | | | | | | | | | |
| | 1.2 Name and a | address | of host or | nanization w | ith n | hone fax and | e-mai | 1 | | | | |
| | Addre | ess | | T | elep | hone | o mai | • | | E mail | | |
| | | | | Office | | FAX | | | | 0 11/1 11 | | |
| | Directorate of Ag | griculture | |)370-224311 | 16 | 0370-22439 | 70 | a | grilandkvk | @rediffmail. | .com | |
| | Nagaland Kohin | na | | | | | | | | | | |
| | 1.3. Name of the | e Prograi | mme Coo | rdinator with | pho | one & mobile N | 0 | | | | | |
| | Name | | Resi | dence | | Mobile | ercc | onta | ICT | Email | | |
| | | | | | | | | | | | | |
| | S. SOSANG JA | MIR | 0369/222 | 28567 | | 9436006351 | | so | sangjamir | @yahoo.in | | |
| | 1.4. Year of | sanction | : 2003 | | | | | | | | | |
| | 1.5. Staff Positio | on (as on | 30 [™] Sept | ember 2007 | ") | Τ | Do | | [| | | Cotogon |
| SI. No. | Sanctioned post | Nam incu | e of the mbent | Designati | ion | Discipline | Sca (Rs | y ale s.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | (SC/ST/ OBC/ Others) |
| 1 | Programme | ramme S. Sosang | | I/C | | | - | | - | | | ST |
| | Coordinator | Jamir | | Programm | ne | Agronomy | | | | 18.06.03 | Temporary | |
| | | | | Coordinat | or | | | | | | | |
| 2 | Subject Matter | Renbor | no | SMS | | Horticulture | 156 | 00 | 17550 | 24.05.06 | Temporary | ST |
| | Specialist | Ngullie | | (Horticultu | ıre) | | + | 0 | + 5400 | | | |
| 3 | Subject Matter | Akangt | emjen | SMS | | Entomology | 156 | 00 | 17550 | 24.05.06 | Temporary | ST |
| | Specialist | | | (Entomolo | ogy) | | + | 0 | + | | | |
| 4 | Subject Matter | Dr. | | SMS | | Vety & AH | 163 | 80 | 18420 | 24.05.06 | Temporary | ST |
| | Specialist | Ronase | ensusana | (Vetv. &Al | H) | | + | | + | | | |
| 5 | Subiect Matter | Samue | <u> </u> | SMS | , | Agronomy | 540 156 | 00 | 5400 17550 | 24.05.06 | Temporary | ST |
| • | Specialist | Sangta | m | (Agronom | V) | , igi en en j | + | | + | | | ••• |
| 6 | Subject Motter | Dondor | | (rigionom | y) | | 540 | 00 | 5400 | 24.05.06 | Tomporory | <u>ет</u> |
| 0 | Specialist | Denual | igjuligia | | | FBQG | + | 00 | + | 24.05.00 | remporary | 51 |
| | | _ | | | | | 540 | 00 | 5400 | 40.44.07 | - | 0.7 |
| 1 | Subject Matter | Royus | o Nakhro | SMS | | Agri. | 156 | 00 | 16880 + | 13.11.07 | lemporary | SI |
| | opecialier | | | (Extensio | on) | Extension | 540 | 00 | 5400 | | | |
| 8 | Programme | Moainla | a | Programm | ne | | 102 | 30 | 11580 | 24.05.06 | Temporary | ST |
| | Assistant | | | Asstt | | | 420 | 00 | 4200 | | | |
| 9 | Computer | I.Tangi | tla | Programm | ne | | 102 | 30 | 11580 | 24.05.06 | Temporary | ST |
| | Programmer | | | Asstt | | | 420 | 00 | + 4200 | | | |
| | | | | (Compute | r) | | | | | | | |
| 10 | Programme | Jwen | i Semp | Farm | | - | 102 | 30 | 11120 | 07.11.07 | Temporary | ST |
| | Asstt | | | Manage | er | | + 120 | 0 | + 4200 | | | |
| | | | | | | 1 | · •/ | | | | | |

| | | | | | | | | 2 |
|----|----------------|--------------|--------------|-----------|-----------|----------|-----------|----|
| 11 | Accountant / | Meyatula | Office Supt- | 10230 | 11580 | 01.06.06 | Temporary | ST |
| | Superintendent | | cum- | + 4200 | + 4200 | | | |
| | | | Accountant | | | | | |
| 12 | Stenographer | Imosangla | Jr. Steno- | 7440 | 8370 + | 01.06.06 | Temporary | ST |
| | | | cum- | + | 2400 | | | |
| | | | Computer | 2400 | | | | |
| | | | Operator | | | | | |
| 13 | Driver-cum- | Supongmeren | Driver | 5680 | 6400 | 01.06.06 | Temporary | ST |
| | Mechanic | | | + | + | | | |
| 14 | Driver-cum- | Benjamin Rai | Driver | 5680 | 6400 | 01.06.06 | Temporary | SC |
| | Mechanic | , | | + | + | | | |
| | | | | 1900 | 1900 | | | |
| 15 | Supporting | Imkonglemla | Supporting | 4750 | 5330 | 01.06.06 | Temporary | ST |
| | staff | | staff | + | + | | | |
| | | | | 1300 | 1300 | | | |
| 16 | Supporting | Wati Ao | Supporting | 4750 | 5330 | 01.06.06 | Temporary | ST |
| | staff | | staff | + | + | | | |
| | | | | 1300 | 1300 | | | |

1.6. Total land with KVK (in ha)

| Total | Total land with KVK (in ha) | | | | | |
|--------|-----------------------------|--------------------------|--|--|--|--|
| S. No. | Item | Area (ha) | | | | |
| 1 | Under Buildings | 0.2 | | | | |
| 2. | Under Demonstration Units | NIL | | | | |
| 3. | Under Crops | 0.2 (Instructional Farm) | | | | |
| 4. | Orchard/Agro-forestry | 1 ha | | | | |
| 5. | Others (specify) | 22 | | | | |

Infrastructural Development: A) Buildings 1.7.

| | | Source | Stage | | | | | | |
|-----------|------------------------------------|---------------|--------------------|--------------------------|----------------------|------------------|--------------------------|-------------------------------|--|
| c | Name of building | of funding | | Complete | e | Incomplete | | | |
| 3. No. | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of constructi on | |
| 1. | Administrative Building | ICAR | 20.06.09 | 400 | 53.5 lakhs | 28.09.07 | 400 | completed | |
| 2. | Farmers Hostel | - do - | NA | | | NA | 200 | NA | |
| 3. | Staff Quarters (6) | - do - | NA | | | NA | 100 | NA | |
| 4. | Demonstration Units (2) | - do - | NA | | | NA | 20 | NA | |
| 5 | Fencing | - do - | NA | | | NA | 177 | NA | |
| 6 | Rain Water harvesting system | | NA | | | NA | | | |
| 7 | Threshing floor | | NA | | | NA | | | |
| 8 | Farm godown | | NA | | | NA | | | |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|-------------------|------------------|------------|----------------|----------------|
| Mahindra Marshall | 2004 | 4,70,000 | | |
| | | | | |

C) Equipments & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|--------------------------|---------------------|------------|----------------|
| 1. Computer | | | |
| a) Compact | 2004 | 70000 | Good |
| b) Dell | 2010 | - | Good |
| 2. Sound system | 2005 | 60000 | Good |
| 2. Photocopier | | | |
| a) Canon | 2005 | 200000 | Good |
| b) Ricoh | | | |
| 4. Digital camera | 2004 | 70000 | Good |
| 6. Laptop | 2008 | 37,000 | Good |
| 7. Video Camera | | | |
| a) sony | 2008 | 16,000 | Good |
| b) sony DCR-SR68E | 2010 | 19,000 | Good |
| LCD PROJECTOR | 2010 | 64,500 | Good |
| Sharp – PG-D2500X | | | |
| Luminous inverter with 2 | 2010 | 28,500 | Good |

| batteries | |
|-----------|--|
|-----------|--|

1.8. A). Details SAC meeting* conducted in the year

| SI.No. | Date | Name and Designation of | Salient Recommendations | Action taken |
|--------|----------|--|--|--|
| | | Participants | | |
| 1. | 27/08/09 | Participants 1. Dr. Supong Keitzar, Director(Agri), & SNO 2. T.V. Holo, Jt. Director (Agri) 3. Dr. Deepak Chetri, Dy. Director (Agri) 4. Temjenlemla, ARCS Mokokchung 5. Benjongwati, SDAO Mangkolemba 6. Kilemla, Secy. Vermi & Handloam Mopungchuket 7. Nungsangkaba, SDAO Tuli 8. Benchulo Seb, WDI, DPO Land resource 9. Imrong, DHO Mokokchung 10.Talimeren, HEA 11. N. Tekatushi Ao, PO SARS 12. Dr. I. Amenla, LTO, Agri 13. Temsuinla Jamir, TO, DAO Mkg 14. Anup Dutta, BM, SBI Mkg | Approval of all the publications, news letter to be initially published annually and later on half yearly and quarterly. Name of local check varieties to be indicated. More attention to be focused on farm women and rural youths. OFT on tomato in AES-IV on need base. Presentation of Annual Report 2008-09 and Action Plan 2009-10 | All the recommendations were finalized and will be implemented during 2009-10 |
| | | chips, Changtongya | | |
| | | | | |

* Attach a copy of SAC proceedings along with list of participants

2. DETAILS OF DISTRICT (2006-07)

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

| S. No | Farming system/enterprise |
|-------|---|
| 1 | Agriculture +Horticulture |
| 2 | Agriculture + Veterinary |
| 3 | Agriculture + Fishery |
| 4 | Agriculture + Horticulture + Veterinary + Fishery |

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

| SI. No | Agro-climatic Zone | Characteristics |
|--------|------------------------|---|
| 1 | Mid Tropical hill Zone | Hot and humid in the foot hills to moderate in the mid and high with heavy rainfall during summer |
| | | ii. Moderate to extreme cold and dry in higher altitude during winter |

| SI. No | Major agro ecological situations | Characteristics |
|--------|----------------------------------|--|
| 1 | AES – 1 (Below 500 msl) | Hot & Humid with sub tropical climate |
| 2 | AES – II (500-1000 msl) | Moderate, sub-montane hill zone |
| 3 | AES – III (1000-1500 msl) | Moderate to extreme cold and dry during winter |
| 4 | AES – IV (Above 1500 msl) | Moderate to extreme cold and dry during winter |

| - | | | • |
|----------|-----------------|--|------------|
| S. No | Soil type | Characteristics | Area in ha |
| | | 20-35% clay | 1,20,000 |
| 1 | Sandy clay loam | 28% silt | |
| | | 45% more sand | |
| | | p 4-5 | |
| | | 27-40% clay | 40,000 |
| 2 | Clay Loam | 20-45% sand | |
| | | Medium organic matter | |
| | | p [¬] 4-5 | |
| 3 | Forest Soil | Broad leaves rain forest, evergreen, temperate climate, high organic | 50 |
| | | matter, dark brown soil with $p^H 4$ | |

2.4. Area, Production and Productivity of major crops cultivated in the district

| SI.No. | Crop | Area (ha) | Production (Qtl) | Productivity(Qtl/ha) | |
|--------|------------|-----------|------------------|----------------------|--|
| 1 | Jhum | 11390 | 246400 | 21.63 | |
| | paddy | | | | |
| 2 | TRC | 4960 | 153000 | 30.84 | |
| | paddy | | | | |
| 3 | Maize | 1028 | 16345.2 | 15.9 | |
| 4 | Tapioca | 1050 | 308910 | 294.2 | |
| 5 | Mustard | 795 | 5000 | 06.3 | |
| 6 | Tomato | 28 | 7600 | 271.4 | |
| 7 | Potato | 125 | 8700 | 69.6 | |
| 8 | Colocassia | 1500 | 127500 | 85 | |
| 9 | Passion | 908 | 24970 | 27.5 | |
| | fruit | | | | |
| 10 | Orange | 460 | 7636 | 16.6 | |
| 11 | Banana | 270 | 3888 | 144.4 | |
| 12 | Pineapple | 340 | 4930 | 14.5 | |
| 13 | Pear | 16 | 3500 | 218.7 | |
| 14 | Теа | 520 | 3120 | 6 (made tea) | |
| 15 | Arecanut | 44 | 600 | 15 | |

2.5. Weather data

| Month | Rainfall (mm) | Tempo | erature [°] C | Relative Humidity (%) |
|-------------|---------------|---------|------------------------|-----------------------|
| | | Maximum | Minimum | |
| Sept.(2008) | 874 | 27.9 | 19.3 | 79.90 |
| Oct. | 377 | 25.5 | 16.6 | 76.65 |
| Nov. | Nil | 23.3 | 12.5 | 65.90 |
| Dec. | 32 | 20.0 | 10.3 | 71.85 |
| Jan.(2009) | Nil | 19.26 | 6.48 | 73.48 |
| Feb. | Nil | 24.57 | 12.46 | 70.43 |
| Mar. | 125 | 26.42 | 14.10 | 69.05 |
| Apr. | 330 | 26.27 | 16.50 | 71.77 |
| May | 585 | 27.71 | 19.92 | 75.77 |
| June | 890 | 28.53 | 21.37 | 74.33 |
| July | 2500 | 28.61 | 21.61 | 76.63 |
| Aug. | | | | |

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population Production | | Productivity |
|------------|-----------------------|------------|--------------|
| Cattle | | | |
| Crossbred | 2125 | 29.87 tons | 6 litrs/day |
| Indigenous | 1437 | - | - |
| Buffalo | | | |
| Sheep | | | |
| Crossbred | - | - | - |
| Indigenous | NA | | |
| Goats | 3278 | 14.75 tons | 9 kg/year |
| Pigs | | | |
| Crossbred | 81,345 | 2870 tons | 110 kg/year |
| Indigenous | | | |

| Rabbits | NA | | |
|-------------------|-----------|------------|-----------------|
| Poultry | | | |
| Hens | 1,01,287 | 3000 | 20 eggs/year |
| Desi | 20,12,325 | 1042 tons | 1.1 kg/8 months |
| Improved | | | |
| Ducks | 491 | 290 kg | 1 kg/6 months |
| Turkey and others | | | |
| | | | |
| Category | Area | Production | Productivity |

| Calegory | Aled | Production | Froductivity |
|----------|----------|------------|--------------|
| Fish | | | |
| Marine | | | |
| Inland | 5,00,000 | 10 tons | 1 kg/year |
| Prawn | | | |
| Scampi | | | |
| Shrimp | | | |

2.6 Details of Operational area / Villages (2008-09)

| No | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|--|-------|---|--|--|--|---|
| 1 | | Ongpangkong (N) | Ungma, Mokokchung village, Longmisa | Paddy, Maize, Tapioca Ginger, Passion fruit Tea, Piggery, Poultry, weaving | Low productivity due to non adoption of improved technology, Majority of the farmers involved in cultivation of vegetables only in one season (Kharif), practice of mono cropping, lack of awareness on potentialities of floriculture, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, lack of proper infrastructure and marketing network | Create awareness on fallow management and jhum intensification, Cultivation of both kharif and rabi vegetables, production of passion fruit, ginger, tapioca, tea on commercial scale, popularization of floriculture, handloom and handicraft, promotion of infrastructures and marketing network |
| 2 Opangkong Chungtia (s) Aliba Mangmetong Cru Pa fru Or | | Paddy, Maize, Tapioca Cucumber, Passion fruit, Ginger, Orange | Low productivity due to non adoption of improved technology, Indiscriminate use of inorganic products in cucumber cultivation, lack of awareness on INM, lack of upgrade dairy breeds, inadequate availability of fodder , insect pest problem, lack of extension activities | Create awareness on fallow management and jhum intensification, Organic Off season cucumber cultivation, development of dairy and fodder crops, production of orange. | | |

| 3 | Kobulong | Mopungchuk et Sungratsü Longjang | Paddy, Tapioca, Maize Passion fruit, ginger, Banana, Piggery, Poultry, Dairy, Sericulture | Low productivity due to non adoption of improved technology, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, pest /disease problem in crops and silkworm, lack of processing unit and marketing, lack of spinning & weaving centers , lack of awareness on citronella cultivation, Inbreeding, disease and nutrition in piggery | Create awareness on fallow management and jhum intensification, To increase productivity of passion fruit, ginger and vegetables, promotion on spinning and weaving centre of sericulture, popularization of citronella cultivation, awareness on breeding programme, prevention and control of disease, scientific feeding management |
|---|-------------|---|--|---|--|
| 4 | Changtongya | Chuchuyimla ng Mongsenyim ti | Paddy, Tapioca, Maize, Collocasia, banana, Orange, Pineapple Arecanut, Tea, piggery, Poultry, Fishery | Low productivity due to non adoption of improved technology, lack of awareness on value addition products, insect pest and disease problem, poor transportation and marketing facilities, lack of upgraded breeds and health centre | Create awareness on fallow management and jhum intensification, To increase production of banana, tapioca, orange, pineapple, development of tea, arecanut, betel vine, improvement of piggery, fishery and sericulture, |
| 5 | Mangkolemba | Chungtia Yimsen Longnak | Paddy, Maize, Tapioca, Orange, Pineapple, Arecanut, Tea, betel vine, Passion fruit fishery, cattle, piggery | Unavailability of HYV (lowland paddy), Lack of knowledge on improved method of cultivation , lack of processing unit, insect pest and disease problem, lack of awareness on INM, poor skill in fishery pond management, financial constraint to take up in commercial scale, inadequate availability of ploughing bullock, swine diseases | Promotion of HYV (paddy), production of oilseed and pulses, production of orange, pineapple, arecanut, tea and fish. Breeding programme for cattle and training of draught animals, prevention & control of swine diseases |
| 6 | Longchem | Yachang (C) Aonokpo | Paddy, Tapioca, Maize, colocassia, passion fruit, Arecanut, betel vine, cattle, piggery | Unavailability of HYV (lowland paddy), Lack of knowledge and awareness on improved method of cultivation on plantation crops, lack of processing unit, lack of awareness on INM, financial constraint for commercial cultivation, inadequate availability of ploughing bullock, swine diseases | Promotion of HYV (paddy), Commercial cultivation of arecanut, tea, rubber, betel vine, colocassia, orange, production of oilseeds and pulses, Breeding programme for cattle and training of draught animals, prevention & control of swine diseases |

2.7 Priority/thrust areas

| Crop/Enterprise | Thrust area |
|-----------------|--------------------------------|
| Paddy | Crop production |
| Oilseeds | Crop production and management |

| Pulses | Crop production and management |
|---------------|---------------------------------|
| Passion fruit | Increase productivity |
| Orange | Orchard management |
| Arecanut | Increase production |
| Tapioca | Soil and water conservation |
| Piggery | Breed and health management |
| Poultry | Feed and housing management |
| Apiculture | Honey and wax sheets production |

<u>3. TECHNICAL ACHIEVEMENTS</u>

3.A. Details of target and achievements of mandatory activities by KVK during 2008-09

| OFT (Technology Assessment and Refinement) | | | | FLD (Oilseeds, Pulses, Cotton, Other | | | |
|--|-------------|---------|---------------|--------------------------------------|---|-------------------|-------------|
| | | | | Crops/Enterprises) | | | |
| 1 | | | | 2 | | | |
| Numb | per of OFTs | Numbe | er of Farmers | Number of FLDs | | Number of Farmers | |
| Targets | Achievement | Targets | Achievement | Targets Achievement | | Targets | Achievement |
| 5 | 5 | 15 | 12 | 6 | 4 | 38 | 24 |

| Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) | | | | | | Extension Activities | | | |
|---|---------|-------------|---------|-----------------|----------------------|----------------------|---------------------------|-----------------|--|
| | | 3 | | | | 4 | | | |
| Number of Courses | | | Number | of Participants | Number of activities | | Number of participants | | |
| Clientele | Targets | Achievement | Targets | Achievement | Targets | Achievemen t | Targets | Achieve ment | |
| Farmers | 40 | 27 | 992 | 675 | 89 | 52 | 1945 | 1055 | |
| Rural youth | 19 | 18 | 525 | 440 | 63 | 48 | 615 | 475 | |
| Extn. Functionaries | 10 | 11 | 229 | 187 | 26 | 18 | 120 | 85 | |

| Seed Pr | oduction (Qtl.) | Planting material (Nos.) | | |
|---------|-----------------|--------------------------|-------------|--|
| | 5 | 6 | | |
| Target | Achievement | Target | Achievement | |
| 64 | 45.5 | 6000 | 3200 | |
| | | | | |

3.B. Abstract of interventions undertaken

| | | | | | | Inte | erventions | | |
|----------|---|-------------------------|--|--|------------------------------|---|--|--------------------------------|---|
| S. No | Thrust area | Crop/ Enterpr ise | ldentified Problem | Title of OFT if any | Title of FLD if any | Title of Trainin g if any | Title of training for extensio n personn el if any | Extension activities | Supply of seeds, planting material s etc. |
| 1 | Use of moisture stress tolerant and HYV oilseed crop | Toria | a) Crop failure due to moisture stress b) Low yield due to old variety | Varietal trial on Toria under rainfed conditio n | | Cultivat ion of high yielding Toria crop | | Kissan ghosti, field day | Seeds |

| | | | | | | | | | 5 |
|---|--|----------------|---|---|---|--|---|---|-------|
| 2 | Production of good quality tomato | Tomato | Good quality and HYV seeds are not used | Varietal trial on tomato | | Cultivat ion of improv ed varietie s of tomato | Insect pest & disease manage ment | Field day | Seeds |
| 3 | Popularization of green gram | Green gram | a) Non traditional crop b)Less preference | Trial on date of sowing of green gram | | | Plant character istic and harvestin g | Media | seed |
| 4 | Increase production of rice | TRC paddy | Low productivity | Different planting design in SRI | | | Cultivatio n techniqu e of SRI | Media | Seed |
| 5 | Popularization of improved variety of black gram | Black gram | a) Non traditional b)Milling of grains to dal | Trail on date of sowing black gram | | | | Field demonstra tion on sowing | Seed |
| 1 | Production and management of French bean | French bean | Production is marginal | | Seed produc tion of Frenc h bean | | Seed productio n technolo gy | | Seeds |
| 2 | Soil fertility management | Rice bean | Continuous crop cultivation depletes soil nutrients | | Rice bean as a cover crop | Soil improv ement through cultivati on of rice bean | | Field day | Seeds |
| 3 | Production and management of Toria | Toria | Seed production is low | | Popul arizati on of Toria | | Seed productio n technolo gy | Media | Seeds |
| 4 | Increase production of pulse crop | Pea | Low yield due to poor quality seed | | Cultiva tion of HYV | | | Media | Seeds |
| 5 | Off season crop cultivation | Cucum ber | Low productivity | | Cultiva tion of Off seaso n cucum ber | Packag e of practic es of off season cucum ber | | | |
| 6 | Increase production | Soybea n | Low yield variety | | Popul arizati on of Soybe an | | | Field day | Seeds |

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies assessed* in respect of crops/enterprises

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation | Tuber | TOTAL |
|-------------------|---------|----------|--------|---------------------|------------|--------|--------|------------|-------|-------|
| Varietal | | 1 | | 01043 | 1 | | | | 01003 | 2 |
| Evaluation | | • | | | 1 | | | | | 2 |
| Seed / Plant | | | | | | | | | | |
| production | | | | | | | | | | |
| Weed | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | 1 | | | | | | | 1 |
| Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | 1 | | | | | | | 1 |
| Nutrient | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Farming | | | | | | | | | | |
| System | | | | | | | | | | |
| Mushroom | | | | | | | | | | |
| cultivation | | | | | | | | | | |
| Drudgery | | | | | | | | | | |
| reduction | | | | | | | | | | |
| Farm | | | | | | | | | | |
| machineries | | | | | | | | | | |
| Value | | | | | | | | | | |
| addition | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Pest | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Disease | | | | | | | | | | |
| Management | | | | | | | | | | |
| Resource | | | | | | | | | | |
| conservation | | | | | | | | | | |
| technology | | | | | | | | | | |
| Small Scale | | | | | | | | | | |
| income | | | | | | | | | | |
| generating | | | | | | | | | | |
| enterprises | | | | | | | | | | |
| TOTAL | | 1 | 2 | | 1 | | | | | 4 |

A.2. Abstract of the number of technologies refined* in respect of crops/enterprises

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|----------------|---------|----------|--------|---------------------|------------|--------|--------|------------------|----------------|-------|
| Varietal | | | | | | | | | | |
| Evaluation | | | | | | | | | | |
| Seed / Plant | 1 | | | | | | | | | 1 |
| production | | | | | | | | | | |
| Weed | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Nutrient | | | | | | | | | | |
| Management | | | | | | | | | | |
| Integrated | | | | | | | | | | |
| Farming | | | | | | | | | | |
| System | | | | | | | | | | |
| Mushroom | | | | | | | | | | |
| cultivation | | | | | | | | | | |
| Drudgery | | | | | | | | | | |

| reduction | | | | | | |
|--------------|---|--|--|--|--|---|
| Farm | | | | | | |
| machineries | | | | | | |
| Post Harvest | | | | | | |
| Technology | | | | | | |
| Integrated | | | | | | |
| Pest | | | | | | |
| Management | | | | | | |
| Integrated | | | | | | |
| Disease | | | | | | |
| Management | | | | | | |
| Resource | | | | | | |
| conservation | | | | | | |
| technology | | | | | | |
| Small Scale | | | | | | |
| income | | | | | | |
| generating | | | | | | |
| enterprises | | | | | | |
| TOTAL | 1 | | | | | 1 |

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises :NA

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitry | Fisheries | TOTAL |
|--------------------|--------|---------|-------|------|---------|----------|-----------|-------|
| Evaluation of | | | | | | | | |
| Breeds | | | | | | | | |
| Nutrition | | | | | | | | |
| Management | | | | | | | | |
| Disease of | | | | | | | | |
| Management | | | | | | | | |
| Value Addition | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| Feed and Fodder | | | | | | | | |
| Small Scale income | | | | | | | | |
| generating | | | | | | | | |
| enterprises | | | | | | | | |
| TOTAL | | | | | | | | |

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises: NA

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitry | Fisheries | TOTAL |
|--------------------|--------|---------|-------|------|---------|----------|-----------|-------|
| Evaluation of | | | | | | | | |
| Breeds | | | | | | | | |
| Nutrition | | | | | | | | |
| Management | | | | | | | | |
| Disease of | | | | | | | | |
| Management | | | | | | | | |
| Value Addition | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| Feed and Fodder | | | | | | | | |
| Small Scale income | | | | | | | | |
| generating | | | | | | | | |
| enterprises | | | | | | | | |
| TOTAL | | | | | | | | |

B. Details of each On Farm Trial to be furnished in the following format

A. Technology Assessment

Trial 1

| 1) | Title | : | Varietal evaluation of toria under rainfed condition |
|-----|----------------------------------|---|---|
| 2) | Problem diagnose/defined | : | Low yield due to moisture stress and use of local varieties |
| 3) | Details of technologies | : | TS - 36 |
| | selected for assessment | | Local (farmers practice) |
| | /refinement | | |
| 4) | Source of technology | : | RARS, Shillongani |
| 5) | Production system | : | Rainfed paddy based system (Jhum and lowland paddy) |
| | thematic area | | |
| 6) | Thematic area | : | Varietal evaluation |
| 7) | Performance of the | : | As per the record, TS-36 showed highest yield 7.2 qt/ha, highest |
| | Technology with performance | | germination and survival percentage (85%) |
| | indicators | | |
| 8) | Final recommendation for: | | TS -36 may be grown in place of local varieties after paddy |
| | micro level situation | | under rainfed condition |
| 9) | Constraints identified and : | | Less popular among farmers due to non availability of irrigation |
| | feedback for research | | facilities and use of age old local varieties result in low yield |
| | | | return. Introduction of HYV and create awareness on improved |
| | | | cultivation practices |
| 10) | Process of farmers | : | Farmers actively participated in site selection, layout and |
| | participation and their reaction | | sowing. Farmers also maintained their own records ie . |
| | | | (germination, growth condition, insect pest infestation, no. of |
| | | | labour invested and yield). Seeing the crop performance and |
| | | | evaluating the yield difference by themselves, farmers were |
| | | | convince to take up in larger area and popularized among them. |
| | | | However, due to farmers less awareness of economic |
| | | | importance, cultivation is not popular so, constant backup is |
| | | | required. |

11). Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment | Data on the parameter | Results of assessment | Feedback from the farmer |
|---------------------|-------------------|--|--|----------------------|--|--|--|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Toria | Rainfed | Low productivity of local varieties | Varietal trial on Toria under rainfed condition | 6 | TS -36 Local (farmers practice) | Germination percentage Height of plant No. of branches yield | 85% Ave. 34 cm Ave. 4 nos. 7.2 qt/ha | Better than the local varieties (checked) | Though the season was very dry compared to other years, the yield performance was satisfactory |

| Technology Assessed | *Production per unit (Kg/ha) | Net Return (Profit) in Rs. / unit | BC Ratio |
|--------------------------|------------------------------|--------------------------------------|----------|
| 11 | 12 | 13 | 14 |
| TS -36 | 720 | 18800 | 1:3 |
| Local (farmers practice) | 540 | 12600 | 1:2.4 |

Trial 2

| 1) | Title | : | Performance trial on date of sowing of Green gram |
|-----|----------------------------|---|---|
| 2) | Problem diagnose/defined | : | Non traditional crop, less preference in consumption |
| 3) | Details of technologies | : | Pratap |
| | selected for assessment | | Local |
| | /refinement | | |
| 4) | Source of technology | : | RARS, Shillongani |
| 5) | Production system | : | Rainfed jhum paddy based system (Jhum paddy mixed cropping) |
| | thematic area | | |
| 6) | Thematic area | : | Integrated crop management |
| 7) | Performance of the | : | 5 th June sown gave the highest yield (8.6 qt/ha) which was par with 12 th June sown yield (7.9 qt/ha) |
| | Technology with | | |
| | performance indicators | | |
| 8) | Final recommendation for | : | The best yield was obtained from crop sown on 5 th of June. However, due to late monsoon the trial was conducted from last |
| | micro level situation | | week of May to 3 rd week of June. |
| 9) | Constraints identified and | : | Less popular in cultivation and low return from locally used variety. Introduction of HYV |
| | feedback for research | | and create awareness of its nutritional value and economic benefit. |
| 10) | Process of farmers | : | Farmers actively participated in site selection, layout and sowing. Seeing the crop performance and |
| | participation and | | estimating the yield and economic return along with them, farmers were convince to take up |
| | their reaction | | green gram as a main crop. However, due to farmers' easy nature and less popular in cultivation, constant backup is required. |

11). Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment | Data on the parameter | Results of assessment | Feedback from the farmer |
|---------------------|-------------------|--|---|-------------------|------------------------|---|--|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Green gram | Rainfed | Non tradition crop, less preference in consumption | Performance trial on date of sowing | 4 | Pratap | Height of plant No. of branches Yield | Ave. 34 cm Ave. 13 (8.6 qt/ha) | 5 th June sown gave the best yield | Though the season was very dry compared to other years, the yield performance was satisfactory |

| Technology Assessed | *Production per unit (Kg/ha) | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------|------------------------------|--------------------------------------|----------|
| 11 | 12 | 13 | 14 |
| Pratap | 860 | 8700 | 1:2 |
| Local (Farmer practice) | 685 | 5200 | 1:1.6 |

Trial 3

| 1) | Title | : | Varietal evaluation of tomato |
|----|--------------------------|---|--|
| 2) | Problem diagnose/defined | : | Use of local varieties and low yield |
| 3) | Details of technologies | : | Megha -1, Selection -1, Punjab chaura |
| | selected for assessment | | Local |
| | /refinement | | |
| 4) | Source of technology | : | RARS, Shillongani |
| 5) | Production system | : | Rainfed |
| | thematic area | | |
| 6) | Thematic area | : | Varietal evaluation |
| 7) | Performance of the | : | As per the record, Megha-1 showed highest yield (355.7 qt/ha), highest germination and |
| | Technology with | | survival percentage (85%) compared to other varieties |
| | performance indicators | | |

- 8) Final recommendation for : Megha -1 performed well under rainfed condition and can be recommended for large scale cultivation micro level situation
- 9)
 Constraints identified and :
 Use of age old local varieties results in low yield return.

 feedback for research
 Introduction of HYV and impart technology of improved method of cultivation

 10)
 Process of farmers
 :

 participation and
 Farmers actively participated in site selection, layout, nursery preparation and transplanting.

 their reaction
 Farmers main problem was irrigation but seeing the crop performance and its economic return they were

 their reaction
 encouraged for tomato cultivation

11) Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment | Data on the parameter | Results of assessment | Feedback from the farmer |
|---------------------|-------------------|--|---|----------------------|--|--|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tomato | Rainfed | Low yield, local varieties, lack of irrigation facilities | Performance trial on varietal evaluation | 3 | Megha -1, Selection -1 &2, Punjab chaura, pusa ruby, Local(farmers practice) | Plant height Girth of fruit Weight of fruit Yield/ha | <u>Megha -1</u> 37.30cm 14.67cm 52.5gm 355.7qt/ha <u>Local (farmer</u> <u>practice)</u> 48.33cm 11.33cm 37gm 204qt/ha | Megha- 1 showed the best yield records | Replace the present local varieties by megha-1 variety |

| Technology Assessed | *Production per unit (Kg/ha) | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|---------------------------------|--------------------------------------|----------|
| 11 | | | |
| Megha-1, sel-1&2, Punjab chaura, Pusa ruby | Megha -1 – 35570 | 270700 | 1:4.2 |
| Local (Farmer practice) | Local (farmers practice)- 20400 | 129000 | 1:2.7 |

Technology Refinement

and their reaction

Trial 1

| 1. | Title | : | Different planting design on SRI |
|-----|-------------------------------------|-------------------|--|
| 2. | Problem diagnose/defined | : | Low productivity |
| 3. | Details of technologies selected fo | r assessn | nent/refinement: |
| | | i. ii. iii. | Conventional method ie. 3-4 seedlings/hill, random spacing, transplant 25-30 days old seedlings, let water standing throughout growing period - Farmers Practice Transplant 8-10 days old single seedling/hill, transplanting in square method, maintain 25 x25 cm spacing, water management by alternate day wetting and drying– Recommended practice Transplant 8-10 days old single seedling/hill, transplanting in hexagonal method, maintain 25 x25 cm spacing, water management by one day wetting and two days drying – Refined Practice |
| 4. | Source of technology | : | SARS, Yisemyong |
| 5. | Production system thematic area | : | Rainfed paddy based system |
| 6. | Thematic area | : | Increase production |
| 7. | Performance of the Technology | : | The refined practice of planting method gave more yield (48.8 q/ha) |
| | with performance indicators | | as compared to other planting method (41.5 q/ha) of SRI |
| 8. | Final recommendation for | : | Transplant 8-10 days old seedling/hill |
| | micro level situation | | Transplanting in hexagonal method |
| | | | Maintain 25 x25 cm spacing, |
| | | | Water management by one day wetting and two days drying |
| 9. | Constraints identified and | : | Take more time to mobilize farmers since this system require additional labour and skill. |
| | feedback for research | | |
| 10. | Process of farmers participation | : | Seeds selection, Nursery preparation, transplanting, weeding and water management. Yield return is higher compared to |

conventional method but it will take 2-3 years to go for larger area of cultivation as it need more professional cultivation

11). Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology refined | Parameters | Data on the parameter | Results of refinement | Feedback from the farmer | Justifi cation for refinement |
|---------------------|-------------------|----------------------|--|----------------------|-----------------------|--|---|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Paddy (WRC) | Rainfed | Low productivity | Different planting design on SRI (Square & Hexagonal) | 6 | IR 64 | Seedling stage (day) No. of effective tillers No. of grains/panicle Yield (Qt/ha) | Square 10 days old 11.8 147.6 <u>Hexagonal</u> 10 days old 13.9 155.1 | Hexagonal planting design gave better performance in all yield attributes | Hexagonal design is more preferable but in this design more skill and labour is required | In hexagonal design more nos. of plants can be transplanting which directly affect the yield returns |

| Technology Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|----------------------|-----------------------------------|----------|
| 12 | 13 | 14 | 15 |
| 3-4 seedlings/hill, random spacing, transplant 25-30 days old seedlings, let water standing throughout growing period - Farmers Practice | 2880 | 14040 | 1:2 |
| Transplant 8-10 days old single seedling/hill, transplanting in square design, maintain 25 x25 cm spacing, water management by alternate day wetting and drying – Recommended practice | 4145 | 21660 | 1:2.9 |
| Transplant 8-10 days old single seedling/hill, transplanting in hexagonal design, maintain 25 x25 cm spacing, water management by one day wetting and two days drying – Refined Practice | 4875 | 27000 | 1:3.3 |

3.2 Achievements of Frontline Demonstrations

List of technologies demonstrated during previous year and popularized during 2008-09 and recommended for large scale adoption in the district

| S. No | Crop/ Enterprise | Thematic Area* | Technology demonstrated | Details of popularization | Horizontal spread of technology | | | |
|----------|---------------------|-------------------|----------------------------|------------------------------|------------------------------------|---------|------|--|
| | - | | | methods | No. of | No. of | Area | |
| | | | | suggested to | villages | farmers | in | |
| | | | | the Extension | | | ha | |
| | | | | system | | | | |
| 1 | Toria | Production | TS-38 | Withstand | 3 | 8 | 2 | |
| | | and | | more | | | | |
| | | management | | moisture | | | | |
| | | | | stress | | | | |
| | | | | compared to | | | | |
| | | | | local varieties | | | | |
| | | | | and gave high | | | | |
| | | | | yield | | | | |
| 2 | Soybean | Pulses | JS- 335 | High yield, | 2 | 4 | 1 | |
| | | production | | economic | | | | |
| | | | | potential, | | | | |
| | | | | enhances soil | | | | |
| | | | | fertility | | | | |

b. Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| SI. No | Crop | Thematic area | Technol ogy Demons trated | Season and year | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievem ent |
|-----------|----------------|--|------------------------------------|-----------------------|-----------|--------|----------------------------------|--------|-------|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | French bean | Crop producti on and manag ement | Local (mutre) | Sprin g 2009 | 3.2 | 2.4 | 8 | | 8 | Lack of rainfall and irrigation problem |
| 2 | Rice bean | Integrat ed crop manag ement | Chakhe sang local dwarf | Rabi 2008 | 3 | 2 | 4 | | 4 | Irrigation problem |
| 3 | Pea | Integrated nutrient managem ent | Azad | Rabi 2008 | 2 | 1.5 | 6 | | 6 | Irrigati on proble m |
| 4 | Soybe an | Integrat ed crop manag ement | JS- 335 | Kharif 2009 | 2 | 1 | 4 | | 4 | Shorta ge of fund |
| 5 | Toria | Crop producti on and manag ement | TS- 38 | Rabi 2008 | 2 | 1.5 | 3 | | 3 | Irrigati on proble m |

| Crop | eason | arming tuation Irrigated) | oil type | Status of soil | | | ious crop | ing date | rest date | nal rainfall mm) | of rainy days |
|----------------|--------|---------------------------------|--------------|----------------|---------------|--------------|-----------|----------|-----------|---------------------|------------------|
| | ũ | Fa sit (RF/I | ы Х | N | Р | к | Prev | Sow | Han | Seaso (| No. |
| French bean | Spring | RF | Silt Ioam | 1.89% | 10.5 kg/ha | 135 kg/ha | Paddy | 27/02/09 | 08/05/09 | 1040 | 32 |
| Rice bean | Rabi | RF | Silt Ioam | 2% | 8kf/ha | 140 kg/ha | Paddy | 21/07/08 | 12/12/08 | 4405 | 77 |
| Pea | Rabi | RF | Silt Ioam | 2.2% | 8.6 kg/ha | 136 kg/ha | Paddy | 10/10/08 | 08/01/09 | 409 | 14 |
| soybean | Kharif | RF | Silt Ioam | 2.12% | 6.6 kg/ha | 148 kg/ha | Paddy | 13/06/08 | 17/10/08 | 6762 | 99 |
| Toria | Rabi | RF | Silt Ioam | 1.95% | 9.6kg/ ha | 152 kg/ha | Paddy | 07/10/08 | 20/02/09 | 409 | 14 |

Performance of FLD

| S I. | Cro | Techn ology | Varioty | No. of | Are | De | emo. Y | ield | Yield of local | Increa se in | Data on par relation to to | rameter in echnology |
|---------|--------------------|----------------|-------------------------|--------|-----------|------|--------|-------|-------------------|-----------------|--|---|
| Ν | р | Demon | variety | s s | a (ha) | | | | Check | yield | demons | trated |
| 0 | | strated | | 3 | (114.) | Н | L | Α | Qtl./ha | (%) | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | Fren ch bean | Local | Mutre | 8 | 2.4 | 11.3 | 9.75 | 10.52 | 9.32 | 11.4 | No. of pods/plant- 48 Weight of biomass/plan t – 150 gm | No. of pods/plant- 39 Weight of biomass/pl ant – 165 gm |
| 2 | Rice bean | Local | Chakhe sang dwarf | 4 | 2 | 14.8 | 13.4 | 14.1 | 12.8 | 9.21 | No. of pods/plant- 58 Weight of biomass/plan t – 145 gm | No. of pods/plant- 47 Weight of biomass/pl ant – 155 gm |
| 3 | Pea | Azad | Azad | 6 | 1.5 | 9.8 | 9.1 | 9.45 | 8.4 | 11.11 | Plant height- 48 No. of pods/plant- 32 | Plant height- 52 No. of pods/plant- 24 |
| 4 | Soyb ean | JS-335 | JS-335 | 4 | 1 | 8 | 7.4 | 7.7 | 6.9 | 10.38 | No. of pods/plant- 52 Weight of biomass/plan t – 90 gm | No. of pods/plant- 44 Weight of biomass/pl ant – 105 gm |
| 5 | Toria | TS -38 | TS -38 | 3 | 1.5 | 6.2 | 5.4 | 5.8 | 5.1 | 12.06 | Plant height- 38 cm Branches/pla nt -5 | Plant height- 36 Branches/ plant-4 |

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

| Average Cost of cultivation (Rs./ha) | | Average Gross I (Rs./ha) | Return | Average Net Re (Profit) (Rs./h | Benefit- Cost | |
|---|------|-----------------------------|----------------|-----------------------------------|------------------|---|
| Demonstration Check | | Demonstration | Local Check | Demonstration | Local Check | Ratio (Gross Return / Gross Cost) |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 9000 | 7500 | 31560 | 27960 | 22560 | 20460 | 1:3.5 |
| 8500 | 7000 | 28200 | 25600 | 19700 | 18600 | 1:3.3 |
| 9000 | 7200 | 28350 | 25200 | 19350 | 18000 | 1:3.2 |
| 9500 | 8000 | 30800 | 27600 | 21300 | 19600 | 1:3.2 |
| 9000 | 7800 | 23200 | 20400 | 14200 | 12600 | 1:2.6 |

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

| Сгор | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|--------|--------|--------------------------|-------------------|----------------------------|--------------------|--|
| French | Spring | 1. Seed/Variety- local | Rainfed | 10.52 | 9.32 | 11.4 |
| bean | | Mutre | | | | |
| | | 2. Bio-fertilizer | | | | |
| | | 3. Fertilizer management | | | | |
| | | 4. Plant Protection | | | | |
| | | 5. Combination of | | | | |
| | | components | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|---|
| 1 | To get additional income before the kharif paddy sown |
| 2 | To reclaim soil fertility |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|--|
| 1 | Within a short period, good extra income generate |
| 2 | Next crop (paddy) is not effect by taken up the crop |

| Сгор | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|---------|--------|--|-------------------|----------------------------|-----------------------|---|
| Soybean | Kharif | 1. Seed/Variety- JS- 335 | Rainfed | 7.7 | 6.9 | 10.38 |
| | | 2. Bio-fertilizer | | | | |
| | | 3. Fertilizer | | | | |
| | | management – 20:40:20 | | | | |
| | | (NPK kg/ha) | | | | |
| | | Plant Protection - | | | | |
| | | 5. Combination of | | | | |
| | | components | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|---|
| 1 | Plant height is much shorter than the local varieties with higher yield |
| 2 | Can be grown as intercropp along with paddy, less insect pest problem |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|---------------------------|
| 1 | Withstand lodging problem |

| 2 | Crop duration is shorter than the local varieties |
|---|---|
| | |

| Crop | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|------|--------|--------------------------|-------------------|----------------------------|-----------------------|---|
| Rice | Rabi | 1. Seed/Variety- | Rainfed | 14.1 | 12.8 | 9.21 |
| bean | | Chakesang local dwarf | | | | |
| | | 2. Bio-fertilizer | | | | |
| | | 3. Fertilizer management | | | | |
| | | 4. Plant Protection | | | | |
| | | 5. Combination of | | | | |
| | | components | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|--|
| 1 | Can be grown as rally crop with Jhum paddy |
| 2 | Enhance soil fertility for next crop |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|--|
| 1 | Farmers prefer its bushy character as it reduce labour for supporting pole |
| 2 | Require no irrigation |

| Crop | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|------|--------|--|-------------------|----------------------------|--------------------|--|
| Pea | Rabi | 1. Seed/Variety- Azad | Rainfed | 9.45 | 8.4 | 11.11 |
| | | 2. Bio-fertilizer | | | | |
| | | 3. Fertilizer management – 20:40:20 (NPK kg/ha) | | | | |
| | | 4. Plant Protection - | | | | |
| | | Bavistin | | | | |
| | | 5. Combination of components | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|--|
| 1 | As crop rotation after paddy instead of leaving the field fallow |
| 2 | Require less managemental practices |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|--|
| 1 | Earn good return |
| 2 | Chance of poor yield if disease infest |

| Crop | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|-------|--------|--------------------------|-------------------|----------------------------|--------------------|--|
| Toria | Rabi | 1. Seed/Variety- TS - 38 | Rainfed | 5.8 | 5.1 | 12.06 |
| | | 2. Bio-fertilizer | | | | |
| | | 3. Fertilizer management | | | | |
| | | – 25:30:15 (NPk kg/ha) | | | | |
| | | 4. Plant Protection – | | | | |
| | | Rogor @ 1ml/lit of water | | | | |
| | | against aphid | | | | |
| | | 5. Combination of | | | | |
| | | components | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|--|
| 1 | Can withstand more moisture stress compared to local |
| 2 | Late sown variety and suitably suit crop rotation |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|--|
| 1 | Get sufficient time for field preparation after Jhum Paddy harvest |
| 2 | More yield with compact branching character |

Extension and Training activities under FLD

| SI.No. | Activity | No. of activities organised | Date | Number of participants | Remarks |
|--------|------------------------|--------------------------------|--------------------|---------------------------|------------------------|
| 1 | Field days | 10 | 08/05/09, 06/05/09 | 225 | Farmers were |
| | | | 12/12/08, 18/12/08 | | satisfied by imparted |
| | | | 08/01/09, 10/01/09 | | knowledge through |
| | | | 17/10/08, 31/10/08 | | seeing is believing at |
| | | | 20/02/09, 26/02/09 | | their own field |
| 2 | Farmers Training | 4 | 04/10/08, 07/02/09 | 100 | Four major |
| | | | 11/04/09, 08/08/09 | | enterprises were |
| | | | | | conducted |
| 3 | Media coverage | 10 | | | News paper |
| | | | | | coverage, Radio talk |
| 4 | Training for extension | 3 | 06/10/08,30/01/09 | 42 | Improved |
| | functionaries | | 03/04/09, 03/08/09 | | technologies, |

c. Details of FLD on Enterprises: NA (i) Farm Implements

| (I) Fa | ann impienn | | | 1 | * 5 (| | | |
|--------------------------|-------------|-------------------|--------------|---|---|---|---------------------------------|---------|
| Name of the implement | crop | No. of farmers | Area (ha) | Performance parameters / indicators | * Data parame relatio techno demons Demon. | ter in ter in n to logy trated Local | % change in the parameter | Remarks |
| | | | | | | CNECK | | |
| | | | | | | | | |

(ii) Livestock Enterprises: NA

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds etc. | Performance parameters / indicators | * Data parame relatio techno demons | t on ter in n to logy trated | % change in the parameter | Remarks |
|------------|-------|-------------------|--|---|---|--|---------------------------------|---------|
| | | | | | Demon. | Local check | | |
| | | | | | | | | |

(iii) Other Enterprises: NA

| Enterprise | Variety/ breed/Species/oth ers | Variety/ reed/Species/oth ers farmers Units | | Performanc e parameters / indicators | Data parame relatic techno demons Demon. | on eter in on to ology trated Local check | % change in the parameter | Remarks |
|-------------|--------------------------------------|---|--|--|---|---|---------------------------------|---------|
| Mushroom | | | | | | | | |
| Apiary | | | | | | | | |
| Sericulture | | | | | | | | |
| Vermi | | | | | | | | |

| | | | | | | | | | 24 |
|--|-----------|--|---|---|--|--|--|---|----|
| compost | | | | | | | | | |
| 3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater | | | | | | | | | |
| Harvestin | g Unit) : | | _ | - | | | | - | |

A: ON Campus

| Thematic area | No. of | of Participants | | | | | | | | |
|----------------------|---------|-----------------|--------|-------|-------|--------|-------|---------|--------|-------|
| | courses | Others | | | SC/ST | | | Grand 7 | Fotal | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| (A) Farmers & | | | | | | | | | | |
| Farm Women | | | | | | | | | | |
| I Crop Production | | | | | | | | | | |
| Weed Management | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| Resource | | | | | | | | | | |
| Conservation | | | | | | | | | | |
| Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Water management | | | | | | | | | | |
| Seed production | | | | | | | | | | |
| Nurserv | | | | | | | | | | |
| management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Fodder production | | | | | | | | | | |
| Production of | | | | | | | | | | |
| organic inputs | | | | | | | | | | |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low | | | | | | | | | | |
| volume and high | | | | | | | | | | |
| value crops | | | | | | | | | | |
| Off-season | 1 | | | | 10 | 15 | 25 | 10 | 15 | 25 |
| vegetables | 1 | | | | 10 | 10 | 20 | 10 | 10 | 20 |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| like Broccoli | 1 | | | | 12 | 15 | 25 | 12 | 15 | 25 |
| Export potential | | | | | | | | | | |
| vegetables | | | | | | | | | | |
| Grading and | | | | | | | | | | |
| standardization | | | | | | | | | | |
| Protective | | | | | | | | | | |
| cultivation (Green | | | | | | | | | | |
| Houses. Shade Net | | | | | | | | | | |
| etc.) | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and | | | | | | | | | | |
| Pruning | | | | | | | | | | |
| Layout and | | | | | | | | | | |
| Management of | | | | | | | | | | |
| Orchards | | | | | | | | | | |
| Cultivation of Fruit | 1 | | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Management of | | | | | | | | | | |
| young | | | | | | | | | | |
| plants/orchards | | | | | | | | | | |
| Rejuvenation of old | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| orchards | | | | | | | | | | |
| Export potential | | 1 | 1 | | | | | | | |
| fruits | | | | | | | | | | |
| Micro irrigation | | 1 | 1 | | | | | | | |
| systems of orchards | | | | | | | | | | |
| Plant propagation | | | | | | | | | | |

| | | | | | | | | 25 |
|--------------------------|---|--|----|----|----|----|----|----|
| techniques | | | | | | | | |
| c) Ornamental | | | | | | | | |
| Plants | | | | | | | | |
| Nursery | | | | | | | | |
| Management | | | | | | | | |
| Management of | | | | | | | | |
| potted plants | | | | | | | | |
| Export potential of | | | | | | | | |
| ornamental plants | | | | | | | | |
| Propagation | | | | | | | | |
| techniques of | | | | | | | | |
| Ornamental Plants | | | | | | | | |
| d) Plantation crops | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| e) Tuber crops | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| f) Spices | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| g) Medicinal and | | | | | | | | |
| Aromatic Plants | | | | | | | | |
| Nursery | | | | | | | | |
| management | | | | | | | | |
| Production and | | | | | | | | |
| management | | | | | | | | |
| technology | | | | | | | | |
| Post harvest | | | | | | | | |
| technology and | | | | | | | | |
| value addition | | | | | | | | |
| III Soil Health and | | | | | | | | |
| Fertility | | | | | | | | |
| Management | | | | | | | | |
| Soil fertility | 1 | | 11 | 14 | 25 | 11 | 14 | 25 |
| management | | | | | | | | |
| Soil and Water | | | | | | | | |
| Conservation | | | | | | | | |
| Integrated Nutrient | | | | | | | | |
| Management | | | | | | | | |
| Production and use | | | | | | | | |
| of organic inputs | | | | | | | | |
| Management of | | | | | | | | |
| Problematic soils | | | | | | | | |
| Micro nutrient | | | | | | | | |
| deficiency in crops | | | | | | | | |
| Nutrient Use | | | | | | | | |
| Efficiency | | | | | | | | |
| Soil and Water | | | | | | | | |
| Testing | | | | | | | | |
| IV Livestock | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| Dairy Management | | | | | | | | |

| | | | | | | | | 26 |
|---------------------|---|--|----|----|----|----|----|----|
| Poultry | | | | | | | | |
| Management | | | | | | | | |
| Piggery | 1 | | 10 | 15 | 25 | 10 | 15 | 25 |
| Management | - | | | | | | ļ | |
| Rabbit Management | | | | | | | | |
| Disease | | | | | | | | |
| Management | | | | | | | ļ | |
| Feed management | | | | | | | | |
| Production of | | | | | | | | |
| quality animal | | | | | | | | |
| products | | | | | | | | |
| V Home | | | | | | | | |
| Science/women | | | | | | | | |
| Usysshold food | | | | | | | | |
| nousenoid 1000 | | | | | | | | |
| gardening and | | | | | | | | |
| nutrition gardening | | | | | | | | |
| Design and | | | | | | | | |
| development of | | | | | | | | |
| low/minimum cost | | | | | | | | |
| diet | | | | | | | | |
| Designing and | | | | | | | | |
| development for | | | | | | | | |
| high nutrient | | | | | | | | |
| efficiency diet | | | | | | | | |
| Minimization of | | | | | | | | |
| nutrient loss in | | | | | | | | |
| processing | | | | | | | | |
| Gender | | | | | | | | |
| mainstreaming | | | | | | | | |
| through SHGs | | | | | | | | |
| Storage loss | | | | | | | | |
| minimization | | | | | | | | |
| techniques | | | | | | | | |
| Value addition | | | | | | | ļ | |
| Income generation | | | | | | | | |
| activities for | | | | | | | | |
| empowerment of | | | | | | | | |
| rural Women | | | | | | | | |
| Location specific | | | | | | | | |
| tachnologies | | | | | | | | |
| Rural Crofts | | | | | | | | |
| Woman and shild | | | | | | | | |
| | | | | | | | | |
| VI Agril | | | | | | | | |
| Fngineering | | | | | | | | |
| Installation and | | | | | | | | |
| maintenance of | | | | | | | | |
| micro irrigation | | | | | | | | |
| systems | | | | | | | | |
| Use of Plastics in | | | | | | | | |
| farming practices | | | | | | | | |
| Production of small | | | | | | | | |
| tools and | | | | | | | | |
| implements | | | | | | | | |
| Repair and | | | | | | | | |
| maintenance of farm | | | | | | | | |
| machinery and | | | | | | | | |
| implements | | | | | | | | |
| Small scale | | | | | | | | |
| processing and | | | | | | | ļ | |

| | | | | | | | | | 27 |
|-----------------------|---|---|---|----|----|----|----|----|----|
| value addition | | | | | | | | | |
| Post Harvest | | | | | | | | | |
| Technology | | | | | | | | | |
| VII Plant Protection | | | | | | | | | |
| Integrated Pest | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| Management | 1 | | | | | | | | |
| Integrated Disease | | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Management | 1 | | | 15 | 12 | 20 | 15 | 12 | 20 |
| Bio-control of pests | | | | | | | | | |
| and diseases | | | | | | | | | |
| Production of bio | | | | | | | | | |
| control agents and | | | | | | | | | |
| bio pesticides | | | | | | | | | |
| VIII Fisheries | | | | | | | | | |
| Integrated fish | | | | | | | | | |
| farming | | | | | | | | | |
| Carn breeding and | | | | | | | | | |
| hatchery | | | | | | | | | |
| management | | | | | | | | | |
| Carp fry and | | | | | | | | | |
| fingerling rearing | | | | | | | | | |
| Composite fish | | | | 13 | 12 | 25 | 13 | 12 | 25 |
| culture | 1 | | | 15 | 12 | 23 | 15 | 12 | 25 |
| Hatchery | | | | | | - | | | |
| management and | | | | | | | | | |
| culture of | | | | | | | | | |
| freshwater prawn | | | | | | | | | |
| Breeding and | | | | | | | | | |
| culture of | | | | | | | | | |
| ornamental fishes | | | | | | | | | |
| Portable plastic carp | | | | | | | | | |
| hatchery | | | | | | | | | |
| Pen culture of fish | | | | | | | | | |
| and prawn | | | | | | | | | |
| Shrimp farming | | | | | | | | | |
| Edible ovster | | | | | | | | | |
| farming | | | | | | | | | |
| Pearl culture | | | | | | | | | |
| Fish processing and | | | | | | | | | |
| value addition | | | | | | | | | |
| IX Production of | | | | | | | | | |
| Inputs at site | | | | | | | | | |
| Seed Production | | | | | | | | | |
| Planting material | | | | | | | | | |
| production | | | | | | | | | |
| Bio-agents | | | | | | | | | |
| production | | | | | | | | | |
| Bio-pesticides | | | | | | | | | |
| production | | | | | | | | | |
| Bio-fertilizer | | | | | | | | | |
| production | | | | | | | | | |
| Vermi-compost | | | | 10 | 15 | 25 | 10 | 15 | 25 |
| production | 1 | | | | 10 | 20 | 10 | 1. | |
| Organic manures | | 1 | | | | | | | |
| production | | | | | | | | | |
| Production of frv | | 1 | | | | | | | |
| and fingerlings | | | | | | | | | |
| Production of Bee- | | 1 | | | | | | | |
| colonies and wax | | | | | | | | | |
| sheets | | | | | | | | | |
| Small tools and | | 1 | | | | | | | |
| implements | | | | | | | | | |
| Production of | | 1 | t | | | | | | |
| | | | | | | | | | |

| | | | | | | | | 28 |
|--------------------------------|----|----------|------|-----|-----|-----|------------|-----|
| livestock feed and | | | | | | | | |
| Production of Fish | | | | | | | | |
| feed | | | | | | | | |
| X Capacity Building | | | | | | | | |
| and Group | | | | | | | | |
| Dynamics | | | | | | | | |
| Leadership | | | | | | | | |
| development | | | | | | | | |
| Group dynamics | | | | | | | | |
| Formation and Management of | | | | | | | | |
| SHGs | | | | | | | | |
| Mobilization of | | | | | | | | |
| social capital | | | | | | | | |
| Entrepreneurial | | | | | | | | |
| development of | | | | | | | | |
| farmers/youths | | | | | | | | |
| WTO and IPR | | | | | | | | |
| issues | | | | | | | | |
| XI Agro-forestry | | | | | | | | |
| Production | | | | | | | | |
| technologies | | | | | | | | |
| management | | | | | | | | |
| Integrated Farming | | | | | | | | |
| Systems | | | | | | | | |
| TOTAL | 12 | | 144 | 156 | 300 | 144 | 156 | 300 |
| (B) RURAL | | | | | | | | |
| YOUTH | | | | | | | | |
| Mushroom | 1 | | 13 | 12 | 25 | 13 | 12 | 25 |
| Production | 1 | | | | | | | |
| Bee-keeping | 1 | | 15 | 10 | 25 | 15 | 10 | 25 |
| Integrated farming | | | | | | | | |
| Seed production | | | | | | | | |
| organic inputs | | | | | | | | |
| Integrated Farming | | | | | | | | |
| Planting material | | | | | | | . <u> </u> | |
| production | | | | | | | | |
| Vermi-culture | 1 | | 11 | 14 | 25 | 11 | 14 | 25 |
| Sericulture | 1 | | 12 | 13 | 25 | 12 | 13 | 25 |
| Protected | | | | | | | | |
| cultivation of | | | | | | | | |
| vegetable crops | | | | | | | | |
| Commercial fruit | | | | | | | | |
| production Densir and | | | | | | | | |
| maintenance of farm | | | | | | | | |
| machinery and | | | | | | | | |
| implements | | | | | | | | |
| Nursery | | | | | | | | |
| Management of | | | | | | | | |
| Horticulture crops | | | | | | | | |
| Training and | 1 | | 15 | 10 | 25 | 15 | 10 | 25 |
| pruning of orchards | • | | | | | | | |
| Value addition | | <u> </u> | | | | | | |
| Production of | | | | | | | | |
| quanty annual | | | | | | | | |
| Dairving | | 1 | | | 1 | | | |
| Sheep and goat | | 1 | | | | | | |
| rearing | | | | | | | | |

| | | | | | | | | | 29 |
|--|----|--|---|-----|-----|-----|-----|-----|-----|
| Quail farming | | | | | | | | | |
| Piggery | | | | | | | | | |
| Rabbit farming | 1 | | | 15 | 10 | 25 | 15 | 10 | 25 |
| Poultry production | - | | | 10 | 10 | 20 | 10 | 10 | 20 |
| Ornamental | | | | | | | | | |
| fisheries | | | | | | | | | |
| Dara vote | | | | | | | | | |
| Para avtancion | | | | | | | | | |
| Para extension | | | | | | | | | |
| Commonite figh | | | | | | | | | |
| | | | | | | | | | |
| Culture East | | | | | | | | | |
| Freshwater prawn | | | | | | | | | |
| | | | | | | | | | |
| Shrimp farming | | | | | | | | | |
| Pearl culture | | | | | | | | | |
| Cold water fisheries | | | | | | | | | |
| Fish harvest and | | | | | | | | | |
| processing | | | | | | | | | |
| technology | | | | | | | | | |
| Fry and fingerling | | | | | | | | | |
| rearing | | | | | | | | | |
| Small scale | 1 | | | 14 | 11 | 25 | 14 | 11 | 25 |
| processing | 1 | | | | | | | | |
| Post Harvest | | | | | | | | | |
| Technology | | | | | | | | | |
| Tailoring and | | | | | | | | | |
| Stitching | | | | | | | | | |
| Rural Crafts | 1 | | | 14 | 11 | 25 | 14 | 11 | 25 |
| TOTAL | 10 | | | 137 | 113 | 250 | 137 | 113 | 250 |
| | | | | | | | | | |
| (C) Extension | | | | | | | | | |
| Personnel | | | | | | | | | |
| Productivity | | | | | | - | | | |
| enhancement in | | | | | | | | | |
| field crops | | | | | | | | | |
| Integrated Pest | | | | 11 | 6 | 17 | 11 | 6 | 17 |
| Management | 1 | | | | Ū | 17 | | 0 | 17 |
| Integrated Nutrient | | | | 10 | 5 | 15 | 10 | 5 | 15 |
| management | 1 | | | 10 | 5 | 15 | 10 | 5 | 15 |
| Reiuvenation of old | | | | | | | | | |
| orchards | | | | | | | | | |
| Drotacted | | | | | | | | | |
| ritication | | | | | | | | | |
| tashnalasy | | | | | | | | | |
| Echnology | | | | 0 | 5 | 1.4 | 0 | 5 | 1.4 |
| Formation and | 1 | | | 9 | 5 | 14 | 9 | 5 | 14 |
| Management of | 1 | | | | | | | | |
| SHUS Crown Demonitor | | | | | | | | | |
| Group Dynamics | | | | | | | | | |
| | | | | | | | | | |
| organization | | | | | | | | | |
| mormation | | | | | | | | | |
| former and the second s | | | | | | | | | |
| Tarmers | | | | 1.1 | ~ | 1.4 | 4.4 | ~ | 1.0 |
| Capacity building | 1 | | | 11 | 5 | 16 | 11 | 5 | 16 |
| for ICT application | | | | | | | | | |
| Care and | | | | | | | | | |
| maintenance of farm | | | | | | | | | |
| machinery and | | | | | | | | | |
| implements | | | ļ | | | | | | |
| WTO and IPR | | | | | | | | | |
| Issues | | | | | | | | | |
| Management in | | | | | | | | | |
| farm animals | | | | | | | | | |

| Livestock feed and | | | | | | | | |
|--------------------|---|--|----|----|----|----|----|----|
| fodder production | | | | | | | | |
| Household food | | | | | | | | |
| security | | | | | | | | |
| Women and Child | 1 | | - | 8 | 8 | - | 8 | 8 |
| care | 1 | | | | | | | |
| Low cost and | | | | | | | | |
| nutrient efficient | | | | | | | | |
| diet designing | | | | | | | | |
| Production and use | | | | | | | | |
| of organic inputs | | | | | | | | |
| Gender | | | 10 | 5 | 15 | 10 | 5 | 15 |
| mainstreaming | 1 | | | | | | | |
| through SHGs | | | | | | | | |
| TOTAL | 6 | | 51 | 34 | 85 | 51 | 34 | 85 |

B: OFF Campus

| Thematic area | No. of | Participa | ints | | | | | | | |
|------------------------------------|---------|-----------|--------|-------|-------|--------|-------|---------|--------|-------|
| | courses | Others | | | SC/ST | | | Grand 7 | Fotal | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| (A) Farmers & | | | | | | | | | | |
| Farm Women | | | | | | | | | | |
| I Crop Production | | | | | | | | | | |
| Weed Management | 1 | | | | 11 | 14 | 25 | 11 | 14 | 25 |
| Resource | | | | | | | | | | |
| Conservation | | | | | | | | | | |
| Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Water management | | | | | | | | | | |
| Seed production | 1 | | | | 10 | 15 | 25 | 10 | 15 | 25 |
| Nursery | | | | | | | | | | |
| management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Fodder production | | | | | | | | | | |
| Production of | | | | | | | | | | |
| organic inputs | | | | | | | | | | |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low | | | | | | | | | | |
| volume and high | | | | | | | | | | |
| value crops | | | | | | | | | | |
| Off-season | 1 | | | | 10 | 15 | 25 | 10 | 15 | 25 |
| vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables like Broccoli | 1 | | | | 11 | 14 | 25 | 11 | 14 | 25 |
| Export potential | | | | | | | | | | |
| vegetables | | | | | | | | | | |
| Grading and | | | | | | | | | | |
| standardization | | | | | | | | | | |
| Protective | | | | | | | | | | |
| cultivation (Green | | | | | | | | | | |
| Houses, Shade Net | | | | | | | | | | |
| etc.) | | | | | | | | | | |
| b) Fruits | | | | | | | | | | |
| Training and | 1 | | | | 14 | 11 | 25 | 14 | 11 | 25 |
| Pruning | | | | | | | | | | |
| Layout and | | | | | | | | | | |

| Management of | | | | | | | | |
|----------------------|-----|---|----|----|----|----|-----|----|
| Orchards | | | | | | | | |
| Cultivation of Fruit | | | | | | | | |
| Management of | | | | | | | | |
| young | | | | | | | | |
| plants/orchards | | | | | | | | |
| Rejuvenation of old | 1 | | 13 | 12 | 25 | 13 | 12 | 25 |
| orchards | | | | | | | | |
| Export potential | | | | | | | | |
| fruits | | | | | | | | |
| Micro irrigation | | | | | | | | |
| systems of orchards | | | | | | | | |
| Plant propagation | | | | | | | | |
| techniques | | | | | | | | |
| c) Ornamental | | | | | | | | |
| Plants | | | | | | | | |
| Nurserv | | | | | | | | |
| Management | | | | | | | | |
| Management of | | | | | | | | |
| potted plants | | | | | | | | |
| Export potential of | | | | | | | | |
| ornamental plants | | | | | | | | |
| Propagation | | | | | - | | | |
| techniques of | | | | | | | | |
| Ornamental Plants | | | | | | | | |
| d) Plantation crops | | | | | - | | | |
| Production and | | | | | - | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| e) Tuber crops | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| f) Spices | | | | | | | | |
| Production and | | | | | | | | |
| Management | | | | | | | | |
| technology | | | | | | | | |
| Processing and | | | | | | | | |
| value addition | | | | | | | | |
| g) Medicinal and | | | | | | | | |
| Aromatic Plants | | | | | | | | |
| Nursery | | | | | | | | |
| management | | | | | | | | |
| Production and | | | | | | | | |
| management | | | | | | | | |
| technology | | | | | | | | |
| Post harvest | | | | | | | | |
| technology and | | | | | | | | |
| value addition | | | | | | | | |
| III Soil Health and | | | | | | | | |
| Fertility | | | | | | | | |
| Management | | | | | | | | |
| Soil fertility | 1 | | 12 | 13 | 25 | 12 | 13 | 25 |
| management | · · | | | 10 | 20 | | 1.5 | |
| Soil and Water | | | | | | | | |
| Conservation | | | | | | | | |
| Integrated Nutrient | | | | | | | | |
| Management | | | | | | | | |
| Production and use | | 1 | | | | | | |
| | | | | | | | , | |

| | | | | | | | | | | 32 |
|-------------------------|---|---|---|---|----|----|----|----|----|----|
| of organic inputs | | | | | | | | | | |
| Management of | | | | | | | | | | |
| Problematic soils | | | | | | | | | | |
| Micro nutrient | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| deficiency in crops | | | | | | | | | | |
| Nutrient Use | | | | | | | | | | |
| Efficiency | | | | | | | | | | |
| Soil and Water | | | | | | | | | | |
| Testing IV Livestock | | | | | | | | | | |
| Production and | | | | | | | | | | |
| Management | | | | | | | | | | |
| Dairy Management | 1 | | | | 11 | 14 | 25 | 11 | 14 | 25 |
| Poultry | | | | | | | | | | |
| Management | | | | | | | | | | |
| Piggery | 1 | | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Management | 1 | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Disease | | | | | | | | | | |
| Management | 1 | | | | 10 | 12 | 25 | 10 | 12 | 25 |
| Production of | 1 | | | | 12 | 15 | 23 | 12 | 15 | 23 |
| quality animal | | | | | | | | | | |
| products | | | | | | | | | | |
| V Home | | | | | | | | | | |
| Science/Women | | | | | | | | | | |
| empowerment | | | | | | | | | | |
| Household food | | | | | | | | | | |
| security by kitchen | | | | | | | | | | |
| gardening and | | | | | | | | | | |
| nutrition gardening | | | | | | | | | | |
| development of | | | | | | | | | | |
| low/minimum cost | | | | | | | | | | |
| diet | | | | | | | | | | |
| Designing and | | | | | | | | | | |
| development for | | | | | | | | | | |
| high nutrient | | | | | | | | | | |
| efficiency diet | | | | | | | | | | |
| Minimization of | | | | | | | | | | |
| nutrient loss in | | | | | | | | | | |
| Gondor | | | | | | | | | | |
| mainstreaming | | | | | | | | | | |
| through SHGs | | | | | | | | | | |
| Storage loss | | | | | | | | | | |
| minimization | | | | | | | | | | |
| techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Income generation | | | | | | | | | | |
| activities for | | | | | | | | | | |
| rural Women | | | | | | | | | | |
| Location specific | | | | | | | | | | |
| drudgery reduction | | | | | | | | | | |
| technologies | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child | | | | | | | | | | |
| care | | | | | | | | | | |
| VI Agril. | | | | | | | | | | |
| Engineering | | | | | | | | | | |
| installation and | | | | | | | | | | |
| mannenance 01 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 |

| | | | | | | | | 33 |
|--------------------------|---|--|----|----|----|----|----|----|
| micro irrigation | | | | | | | | |
| systems | | | | | | | | |
| Use of Plastics in | | | | | | | | |
| farming practices | | | | | | | | |
| Production of small | | | | | | | | |
| tools and | | | | | | | | |
| Implements Densir and | | | | | | | | |
| Repair and | | | | | | | | |
| machinery and | | | | | | | | |
| implements | | | | | | | | |
| Small scale | | | | | | | | |
| processing and | | | | | | | | |
| value addition | | | | | | | | |
| Post Harvest | | | | | | | | |
| Technology | | | | | | | | |
| VII Plant Protection | | | | | | | | |
| Integrated Pest | 1 | | 11 | 14 | 25 | 11 | 14 | 25 |
| Management | 1 | | | | | | | |
| Integrated Disease | 1 | | 12 | 13 | 25 | 12 | 13 | 25 |
| Die control of posts | | | | | | | | |
| and diseases | | | | | | | | |
| Production of bio | | | | | | | | |
| control agents and | | | | | | | | |
| bio pesticides | | | | | | | | |
| VIII Fisheries | | | | | | | | |
| Integrated fish | 1 | | 12 | 13 | 25 | 12 | 13 | 25 |
| farming | 1 | | | | | | | |
| Carp breeding and | | | | | | | | |
| hatchery | | | | | | | | |
| management | | | | | | | | |
| fingerling rearing | | | | | | | | |
| Composite fish | | | 13 | 12 | 25 | 13 | 12 | 25 |
| culture | 1 | | 10 | | | 10 | | |
| Hatchery | | | | | | | | |
| management and | | | | | | | | |
| culture of | | | | | | | | |
| freshwater prawn | | | | | | | | |
| Breeding and | | | | | | | | |
| culture of | | | | | | | | |
| Ornamental fishes | | | | | | | | |
| hatchery | | | | | | | | |
| Pen culture of fish | | | | | | | | |
| and prawn | | | | | | | | |
| Shrimp farming | | | | | | | | |
| Edible oyster | | | | | | | | |
| farming | | | | | | | | |
| Pearl culture | | | | | | | | |
| Fish processing and | | | | | | | | |
| Value addition | | | | | | | | |
| Inputs at site | | | | | | | | |
| Seed Production | | | | | | | | |
| Planting material | | | | | | | | |
| production | | | | | | | | |
| Bio-agents | | | | | | | | |
| production | | | | | | | | |
| Bio-pesticides | | | | | | | | |
| production | | | | | | | | |
| D10-Iertilizer | | | | | | | | |

| production | | | | | | | | | |
|------------------------|----|---|------|-----|-----|-----|-----|-----|-----|
| Vermi-compost | 1 | | | 10 | 15 | 25 | 10 | 15 | 25 |
| production | 1 | | | | | | | | |
| Organic manures | | | | | | | | | |
| production | | | | | | | | | |
| Production of frv | | | | | | | | | |
| and fingerlings | | | | | | | | | |
| Production of Bee- | | | | | | | | | |
| colonies and wax | | | | | | | | | |
| sheets | | | | | | | | | |
| Small tools and | | | | | | | | | |
| implements | | | | | | | | | |
| Production of | | | | | | | | | |
| livestock feed and | | | | | | | | | |
| fodder | | | | | | | | | |
| Droduction of Fish | | | | | | | | | |
| feed | | | | | | | | | |
| V Canacity Building | | | | | | | | | |
| and Group | | | | | | | | | |
| Dunamias | | | | | | | | | |
| Landamhin | | | | | | | | | |
| Leadership | | | | | | | | | |
| development | | | | | | | | | |
| Group dynamics | | | | | | | | | |
| Formation and | | | | | | | | | |
| Management of | | | | | | | | | |
| SHGs | | | | | | | | | |
| Mobilization of | | | | | | | | | |
| social capital | | | | | | | | | |
| Entrepreneurial | | | | | | | | | |
| development of | | | | | | | | | |
| farmers/youths | | | | | | | | | |
| WTO and IPR | | | | | | | | | |
| issues | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | |
| Production | | | | | | | | | |
| technologies | | | | | | | | | |
| Nursery | | | | | | | | | |
| management | | | | | | | | | |
| Integrated Farming | | | | | | | | | |
| Systems | | | | | | | | | |
| TOTAL | 16 | | | 187 | 213 | 400 | 187 | 213 | 400 |
| (B) RURAL | | | | | | | | | |
| YOUTH | | | | | | | | | |
| Mushroom | 2 | | | 30 | 20 | 50 | 30 | 20 | 50 |
| Production | 2 | | | | | | | | |
| Bee-keeping | 1 | | | 17 | 8 | 25 | 17 | 8 | 25 |
| Integrated farming | | | | | | | | | |
| Seed production | | | | | | | | | |
| Production of | | | | | | | | | |
| organic inputs | | | | | | | | | |
| Integrated Farming | | | | | | | | | |
| Planting material | | | | | | | | | |
| production | | | | | | | | | |
| Vermi-culture | 2 | | | 22 | 28 | 50 | 22 | 28 | 50 |
| Sericulture | | | | | | | | | 00 |
| Protected | | | | | | | | | |
| cultivation of | | | | | | | | | |
| vegetable crops | | | | | | | | | |
| Commercial fruit | | | | 15 | 10 | 25 | 15 | 10 | 25 |
| production | 1 | | | 15 | 10 | 23 | 15 | 10 | 25 |
| Renair and | | | | | | | | | |
| maintenance of farm | | | | | | | | | |
| maintenance of failing | | | | | | | | | |
| machinery and | | 1 | | | | | | | |

| | | | | | | | | | 35 |
|----------------------------|----------|---|--|-----|-----|-----|-----|------|-----|
| implements | | | | | | | | | |
| Nursery | | | | | | | | | |
| Management of | | | | | | | | | |
| Horticulture crops | | | | | | | | | |
| Training and | | | | | | | | | |
| pruning of orchards | | | | | | | | | |
| Value addition | | | | | | | | | |
| Production of | | | | | | | | | |
| quality animal | | | | | | | | | |
| products | | | | | | | | | |
| Dairving | | | | | | | | | |
| Sheep and goat | | | | | | | | | |
| rearing | | | | | | | | | |
| Quail farming | | | | | | | | | |
| Piggery | 1 | | | 14 | 11 | 25 | 14 | 11 | 25 |
| Rabbit farming | - | | | | | | | | |
| Poultry production | 1 | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Ornamental | 1 | | | 15 | 12 | 25 | 15 | 12 | 25 |
| fisheries | | | | | | | | | |
| Para vote | | | | | | | | | |
| Para avtansion | | | | | | | | | |
| r ala extension | | | | | | | | | |
| Composite fish | | | | | | | | | |
| composite fish | | | | | | | | | |
| En character a norm | | | | | | | | l | |
| Freshwater prawn | | | | | | | | | |
| Culture Shainan fammina | | | | | | | | | |
| Shrimp farming | | | | | | | | | |
| Pearl culture | | | | | | | | | |
| Cold water fisheries | | | | | | | | | |
| Fish harvest and | | | | | | | | | |
| processing | | | | | | | | | |
| technology | | | | | | | | | |
| Fry and fingerling | | | | | | | | | |
| rearing | | | | 1.7 | 10 | 25 | 1.5 | 10 | 25 |
| Small scale | 1 | | | 15 | 10 | 25 | 15 | 10 | 25 |
| processing | | | | | | | | | |
| Post Harvest | | | | | | | | | |
| Technology | | | | | | | | | |
| Tailoring and | | | | | | | | | |
| Stitching | 1 | | | 1.7 | 10 | 25 | 1.5 | 10 | 25 |
| Rural Crafts | 1 | | | 15 | 10 | 25 | 15 | 10 | 25 |
| TOTAL | 14 | | | 178 | 145 | 317 | 178 | 145 | 317 |
| | | | | | | | | | |
| (C) Extension | | | | | | | | | |
| Personnel | | | | | | | | | |
| Productivity | | | | | | | | | |
| enhancement in | | | | | | | | | |
| field crops | | | | 10 | | 10 | 10 | | 10 |
| Integrated Pest | 1 | | | 10 | 8 | 18 | 10 | 8 | 18 |
| Management | | | | | | | | | |
| Integrated Nutrient | | | | | | | | | |
| management | | | | - | | 4.6 | | | 1.6 |
| Rejuvenation of old | 1 | | | 9 | 1 | 16 | 9 | 1 | 16 |
| orchards | | | | | | | | | |
| Protected | | | | | | | | | |
| cultivation | | | | | | | | | |
| technology | | | | | - | | - | | |
| Formation and | 4 | | | 9 | 6 | 15 | 9 | 6 | 15 |
| Management of | 1 | | | | | | | | |
| SHUS | | | | | | | | | |
| Group Dynamics | | | | | | | | | |
| and farmers | | | | | | | | | |
| organization | <u> </u> | 1 | | | | | | | |

| Information | | | | | | | | |
|---------------------|---|--|----|----|----|----|----|----|
| networking among | | | | | | | | |
| farmers | | | | | | | | |
| Capacity building | | | | | | | | |
| for ICT application | | | | | | | | |
| Care and | | | | | | | | |
| maintenance of farm | | | | | | | | |
| machinery and | | | | | | | | |
| implements | | | | | | | | |
| WTO and IPR | | | | | | | | |
| issues | | | | | | | | |
| Management in | | | | | | | | |
| farm animals | | | | | | | | |
| Livestock feed and | 1 | | 8 | 7 | 15 | 8 | 7 | 15 |
| fodder production | 1 | | | | | | | |
| Household food | | | | | | | | |
| security | | | | | | | | |
| Women and Child | | | | | | | | |
| care | | | | | | | | |
| Low cost and | | | | | | | | |
| nutrient efficient | | | | | | | | |
| diet designing | | | | | | | | |
| Production and use | | | | | | | | |
| of organic inputs | | | | | | | | |
| Gender | | | 9 | 7 | 16 | 9 | 7 | 16 |
| mainstreaming | 1 | | | | | | | |
| through SHGs | | | | | | | | |
| TOTAL | 5 | | 45 | 35 | 80 | 45 | 35 | 80 |

C) Consolidated table (ON and OFF Campus)

| Thematic area | No. of | Participa | ants | | | | | | | |
|----------------------|---------|-----------|--------|-------|-------|--------|-------|---------|--------|-------|
| | courses | Others | | | SC/ST | | | Grand 7 | Fotal | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| (A) Farmers & | | | | | | | | | | |
| Farm Women | | | | | | | | | | |
| I Crop Production | | | | | | | | | | |
| Weed Management | 2 | | | | 24 | 26 | 50 | 24 | 26 | 50 |
| Resource | | | | | | | | | | |
| Conservation | | | | | | | | | | |
| Technologies | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | |
| Water management | | | | | | | | | | |
| Seed production | 1 | | | | 10 | 15 | 25 | 10 | 15 | 25 |
| Nursery | | | | | | | | | | |
| management | | | | | | | | | | |
| Integrated Crop | | | | | | | | | | |
| Management | | | | | | | | | | |
| Fodder production | | | | | | | | | | |
| Production of | | | | | | | | | | |
| organic inputs | | | | | | | | | | |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Production of low | | | | | | | | | | |
| volume and high | | | | | | | | | | |
| value crops | | | | | | | | | | |
| Off-season | 2 | | | | 24 | 26 | 50 | 24 | 26 | 50 |
| vegetables | | | | | | | | | | |
| Nursery raising | | | | | | | | | | |
| Exotic vegetables | 2 | | | | 23 | 27 | 50 | 23 | 27 | 50 |

| | | | | | | | | | 37 |
|--------------------------|---|---|---|----|----|----|----|----|----|
| like Broccoli | | | | | | | | | _ |
| Export potential | | | | | | | | | |
| Grading and | | | | | | | | | |
| standardization | | | | | | | | | |
| Protective | | | | | | | | | |
| cultivation (Green | | | | | | | | | |
| Houses, Shade Net | | | | | | | | | |
| etc.) | | | | | | | | | |
| b) Fruits | | | | | | | | | |
| Training and | 1 | | | 15 | 10 | 25 | 15 | 10 | 25 |
| Pruning | | | | | | | | | |
| Layout and | | | | | | | | | |
| Management of | | | | | | | | | |
| Orchards | 1 | | - | 12 | 10 | 25 | 10 | 10 | 25 |
| Cultivation of Fruit | 1 | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Management of | | | | | | | | | |
| young plants/orchards | | | | | | | | | |
| Rejuvenation of old | 2 | | | 26 | 24 | 50 | 26 | 24 | 50 |
| orchards | 2 | | | 20 | 24 | 50 | 20 | 24 | 50 |
| Export potential | | | | | | | | | |
| fruits | | | | | | | | | |
| Micro irrigation | | | | | | | | | |
| systems of orchards | | | | | | | | | |
| Plant propagation | | | | | | | | | |
| techniques | | | | | | | | | |
| c) Ornamental | | | | | | | | | |
| Plants | | | | | | | | | |
| Management | | | | | | | | | |
| Management of | | | | | | | | | |
| potted plants | | | | | | | | | |
| Export potential of | | | | | | | | | |
| ornamental plants | | | | | | | | | |
| Propagation | | | | | | | | | |
| techniques of | | | | | | | | | |
| Ornamental Plants | | | | | | | | | |
| d) Plantation crops | | | | | | | | | |
| Production and | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and | | | | | | | | | |
| value addition | | | | | | | | | |
| e) Tuber crops | | | | | | | | | |
| Production and | | | | | | | | | |
| Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and | | | | | | | | | |
| value addition | | | | | | | | | |
| T) Spices | | | | | | | | | |
| Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and | | | | | | | | | |
| value addition | | | | | | | | | |
| g) Medicinal and | | | | | | | | | |
| Aromatic Plants | | | | | | | | | |
| management | | | | | | | | | |
| Production and | | 1 | | | | | | | |
| management | | | | | | | | | |
| technology | | | | | | | | | |

| | | | | | | | | | | 38 |
|---------------------|---|---|---|---|----|----|----|----|----------|----|
| Post harvest | | | | | | | | | | |
| technology and | | | | | | | | | | |
| value addition | | | | | | | | | | |
| III Soil Health and | | | | | | | | | | |
| Fertility | | | | | | | | | | |
| Management | | | | | | | | | | |
| Soil fertility | 2 | | | | 23 | 27 | 50 | 23 | 27 | 50 |
| management | | | | | | | | | | |
| Soil and Water | | | | | | | | | | |
| Conservation | | | | | | | | | ļ | |
| Integrated Nutrient | | | | | | | | | | |
| Droduction and use | | | | | | | | | | |
| of organic inputs | | | | | | | | | | |
| Management of | | | | | | | | | <u> </u> | |
| Problematic soils | | | | | | | | | | |
| Micro nutrient | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| deficiency in crops | 1 | | | | 12 | 15 | 25 | 12 | 15 | 20 |
| Nutrient Use | | | | | | | | | | |
| Efficiency | | | | | | | | | | |
| Soil and Water | | | | | | | | | | |
| Testing | | | | | | | | | | |
| IV Livestock | | | | | | | | | | |
| Production and | | | | | | | | | | |
| Management | | | | | | | | | | |
| Dairy Management | 1 | | | | 11 | 14 | 25 | 11 | 14 | 25 |
| Poultry | | | | | | | | | | |
| Management | | | | | | | | | | |
| Piggery | 2 | | | | 25 | 25 | 50 | 25 | 25 | 50 |
| Management | | | | | | | | | ļ! | |
| Rabbit Management | | | | | | | | | ļ | |
| Disease | | | | | | | | | | |
| Management | 1 | | | | 10 | 10 | 25 | 10 | 10 | 25 |
| Feed management | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| Production of | | | | | | | | | | |
| products | | | | | | | | | | |
| V Home | | | | | | | | | | |
| Science/Women | | | | | | | | | | |
| empowerment | | | | | | | | | | |
| Household food | | | | | | | | | | |
| security by kitchen | | | | | | | | | | |
| gardening and | | | | | | | | | | |
| nutrition gardening | | | | | | | | | | |
| Design and | | | | | | | | | | |
| development of | | | | | | | | | | |
| low/minimum cost | | | | | | | | | | |
| diet | | | | | | | | | | |
| Designing and | | | | | | | | | | |
| development for | | | | | | | | | | |
| afficiency dict | | | | | | | | | | |
| Minimization of | | | | | | | | | <u> </u> | |
| nutrient loss in | | | | | | | | | | |
| nucleurossing | | | | | | | | | | |
| Gender | | 1 | 1 | 1 | | | | | | |
| mainstreaming | | | | | | | | | | |
| through SHGs | | | | | | | | | | |
| Storage loss | 1 | 1 | 1 | ł | | | | | | |
| minimization | | | | | | | | | | |
| techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Income generation | | | | | | | | | | |

| activities for | | 1 | | 1 | | | | | | |
|-----------------------|---|---|---|---|----|----|----|----|----|----|
| activities for | | | | | | | | | | |
| empowerment of | | | | | | | | | | |
| rural Women | | | | | | | | | | |
| Location specific | | | | | | | | | | |
| | | | | | | | | | | |
| drudgery reduction | | | | | | | | | | |
| technologies | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Woman and shild | | | | | | | | | | |
| women and child | | | | | | | | | | |
| care | | | | | | | | | | |
| VI Agril. | | | | | | | | | | |
| Engineering | | | | | | | | | | |
| Lingineering | | | | | | | | | | |
| Installation and | | | | | | | | | | |
| maintenance of | | | | | | | | | | |
| micro irrigation | | | | | | | | | | |
| systems | | | | | | | | | | |
| Systems | | | | | | | | | | |
| Use of Plastics in | | | | | | | | | | |
| farming practices | | | | | | | | | | |
| Production of small | | | | | | | | | | |
| to also and | | | | | | | | | | |
| tools and | | | | | | | | | | |
| implements | | | | | | | | | | |
| Repair and | | | | | | | | | | |
| maintenance of farm | | | | | | | | | | |
| | | | | | | | | | | |
| machinery and | | | | | | | | | | |
| implements | | | | | | | | | | |
| Small scale | | | | | | | | | | |
| me accessing and | | | | | | | | | | |
| processing and | | | | | | | | | | |
| value addition | | | | | | | | | | |
| Post Harvest | | | | | | | | | | |
| Technology | | | | | | | | | | |
| NUL DI A D | | | | | | | | | | |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest | 2 | | | | 23 | 27 | 50 | 23 | 27 | 50 |
| Management | 2 | | | | | | | | | |
| Interneted Discoss | | | | | 25 | 25 | 50 | 25 | 25 | 50 |
| Integrated Disease | 2 | | | | 25 | 25 | 50 | 25 | 25 | 50 |
| Management | - | | | | | | | | | |
| Bio-control of pests | | | | | | | | | | |
| and discusses | | | | | | | | | | |
| | | | | | | | | | | |
| Production of bio | | | | | | | | | | |
| control agents and | | | | | | | | | | |
| bio pesticides | | | | | | | | | | |
| VIII Eich anie a | | | | | | | | | | |
| VIII Fisheries | | | | | | | | | | |
| Integrated fish | 1 | | | | 12 | 13 | 25 | 12 | 13 | 25 |
| farming | 1 | | | | | | | | | |
| Com broading and | | | | | | | | | | |
| Carp breeding and | | | | | | | | | | |
| hatchery | | | | | | | | | | |
| management | | | | | | | | | | |
| Carp fry and | | | | | | | | | | |
| fin conline receive | | | | | | | | | | |
| lingering rearing | | | | | | | | | | |
| Composite fish | 2 | | | | 26 | 24 | 50 | 26 | 24 | 50 |
| culture | Z | | | | | | | | | |
| Hatchery | | | | | | | | | | |
| Tratefier y | | | | | | | | | | |
| management and | | | | | | | | | | |
| culture of | | | | | | | | | | |
| freshwater prawn | | | | | | | | | | |
| Broading and | | | | | | | | | | - |
| | | | | | | | | | | |
| culture of | | | | | | | | | | |
| ornamental fishes | | | | | | | | | | |
| Portable plastic carp | | | | t | 1 | | | 1 | | |
| hotohomy | | | | | | | | | | |
| natchery | | | | | | | | | | |
| Pen culture of fish | | | | | | | | | | |
| and prawn | | | | | | | | | | |
| Shrimp farming | 1 | t | 1 | t | | | | | | |
| Similar mining | | | | | | | | | | |
| T 1'1 1 | | | | | | | | | | |
| Edible oyster | | | | | | | | | | |

| | | | | | | | | | 40 |
|---------------------|----------|---|---|-----|-----|-----|-----|---------|-----|
| Pearl culture | | | | | | | | | |
| Fish processing and | | | | | | | | | |
| value addition | | | | | | | | | |
| IX Production of | | | | | | | | | |
| Inputs at site | | | | | | | | | |
| Seed Production | | | | | | | | | |
| Planting material | | | | | | | | | |
| production | | | | | | | | | |
| Bio-agents | | | | | | | | | |
| Bio posticidos | | | | | | | | ┢─────┦ | |
| production | | | | | | | | | |
| Bio-fertilizer | | | | | | | | | |
| production | | | | | | | | | |
| Vermi-compost | - | | | 21 | 29 | 50 | 21 | 29 | 50 |
| production | 2 | | | | | | | | |
| Organic manures | | | | | | | | | |
| production | | | | | | | | | |
| Production of fry | | | | | | | | | |
| and fingerlings | | | | | | | | | |
| Production of Bee- | | | | | | | | | |
| colonies and wax | | | | | | | | | |
| sheets | | | | | | | | | |
| Small tools and | | | | | | | | | |
| Production of | | | | | | | | | |
| livestock feed and | | | | | | | | | |
| fodder | | | | | | | | | |
| Production of Fish | | | | | | | | | |
| feed | | | | | | | | | |
| X Capacity Building | | | | | | | | | |
| and Group | | | | | | | | | |
| Dynamics | | | | | | | | | |
| Leadership | | | | | | | | | |
| Group dynamics | | | | | | | | | |
| Formation and | | | | | | | | | |
| Management of | | | | | | | | | |
| SHGs | | | | | | | | | |
| Mobilization of | | | | | | | | | |
| social capital | | | | | | | | | |
| Entrepreneurial | | | | | | | | | |
| development of | | | | | | | | | |
| farmers/youths | | | | | | | | | |
| WTO and IPR | | | | | | | | | |
| ISSUES | | | | | | | | | |
| Production | | | | | | | | ┟─────┦ | |
| technologies | | | | | | | | | |
| Nurserv | | | | | | | | | |
| management | | | | | | | | | |
| Integrated Farming | | | | | | | | | |
| Systems | | | | | | | | | |
| TOTAL | 31 | | | 370 | 405 | 775 | 370 | 405 | 775 |
| (B) RURAL | | | | | | | | | |
| YOUTH | | | | 40 | 22 | 75 | 40 | 22 | 75 |
| Production | 3 | | | 45 | 32 | /5 | 45 | 52 | 15 |
| Ree-keening | 2 | | | 32 | 18 | 50 | 32 | 18 | 50 |
| Integrated farming | <u> </u> | + | | 52 | 10 | 50 | 52 | 10 | 50 |
| Seed production | | | | | | | | | |
| Production of | | 1 | 1 | | | | | | |
| organic inputs | | | | | | | | | |

| | | | | | | | | | | 41 |
|----------------------|----|---|---|---|-----|-----|-----|-----|-----|-----|
| Integrated Farming | | | | | | | | | | |
| Planting material | | | | | | | | | | |
| Vormi oulturo | 2 | | | | 22 | 42 | 75 | 22 | 42 | 75 |
| Sorioulture | 1 | | | | 12 | 42 | 25 | 12 | 42 | 25 |
| Brotested | 1 | | | | 12 | 15 | 23 | 12 | 15 | 23 |
| cultivation of | | | | | | | | | | |
| vegetable crops | | | | | | | | | | |
| Commercial fruit | 1 | | | | 15 | 10 | 25 | 15 | 10 | 25 |
| production | 1 | | | | | | | | | |
| Repair and | | | | | | | | | | |
| maintenance of farm | | | | | | | | | | |
| machinery and | | | | | | | | | | |
| implements | | | | | | | | | | |
| Nursery | | | | | | | | | | |
| Management of | | | | | | | | | | |
| Horticulture crops | | | | | | | | | | |
| Training and | 1 | | | | 15 | 10 | 25 | 15 | 10 | 25 |
| pruning of orchards | 1 | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Production of | | | | | | | | | | |
| quality animal | | | | | | | | | | |
| products | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | |
| rearing | | | | - | | | | | | |
| Quail farming | | | | - | | | | | | |
| Piggery | 1 | | | | 14 | 11 | 25 | 14 | 11 | 25 |
| Rabbit farming | 1 | | | | 15 | 10 | 25 | 15 | 10 | 25 |
| Poultry production | 1 | | | | 13 | 12 | 25 | 13 | 12 | 25 |
| Ornamental | | | | | | | | | | |
| fisheries | | | | | | | | | | |
| Para vets | | | | - | | | | | | |
| Para extension | | | | | | | | | | |
| workers | | | | | | | | | | |
| Composite fish | | | | | | | | | | |
| culture | | | | | | | | | | |
| Freshwater prawn | | | | | | | | | | |
| Culture | | | | | | | | | | |
| Deeml culture | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| risii nai vest and | | | | | | | | | | |
| technology | | | | | | | | | | |
| Fry and fingerling | | | | | | | | | | |
| rearing | | | | | | | | | | |
| Small scale | | | | | 29 | 21 | 50 | 29 | 21 | 50 |
| processing | 2 | | | | | | 20 | 2, | 21 | 20 |
| Post Harvest | | | | | | | | | | |
| Technology | | | | | | | | | | |
| Tailoring and | | | 1 | | | | | | | |
| Stitching | | | | | | | | | | |
| Rural Crafts | 2 | İ | | | 29 | 21 | 50 | 29 | 21 | 50 |
| TOTAL | 19 | | | | 270 | 222 | 492 | 270 | 222 | 492 |
| | | | | | | | | | | |
| (C) Extension | | | | | | | | | | |
| Personnel | | | | | | | | | | |
| Productivity | | | | | | | | | | |
| enhancement in | | | | | | | | | | |
| field crops | | | | | | | | | | |
| Integrated Pest | 2 | | | | 21 | 14 | 35 | 21 | 14 | 35 |
| Management | 2 | | | | | | | | | |

| Integrated Nutrient | 1 | | 10 | 5 | 15 | 10 | 5 | 15 |
|------------------------------|----|--|----|----|-----|----|----|-----|
| management | | | | | | - | | |
| Rejuvenation of old orchards | 1 | | 9 | 7 | 16 | 9 | 7 | 16 |
| Protected | | | | | | | | |
| cultivation | | | | | | | | |
| technology | | | | | | | | |
| Formation and | | | 18 | 11 | 29 | 18 | 11 | 29 |
| Management of | 2 | | | | | | | |
| SHGs | | | | | | | | |
| Group Dynamics | | | | | | | | |
| and farmers | | | | | | | | |
| organization | | | | | | | | |
| Information | | | | | | | | |
| networking among | | | | | | | | |
| farmers | | | | | | | | |
| Capacity building | 1 | | 11 | 5 | 16 | 11 | 5 | 16 |
| for ICT application | 1 | | | | | | | |
| Care and | | | | | | | | |
| maintenance of farm | | | | | | | | |
| machinery and | | | | | | | | |
| implements | | | | | | | | |
| WTO and IPR | | | | | | | | |
| issues | | | | | | | | |
| Management in | | | | | | | | |
| farm animals | | | | | | | | |
| Livestock feed and | 1 | | 8 | 7 | 15 | 8 | 7 | 15 |
| fodder production | 1 | | | | | | | |
| Household food | | | | | | | | |
| security | | | | | | | | |
| Women and Child | 1 | | - | 8 | 8 | - | 8 | 8 |
| care | - | | | | | | | |
| Low cost and | | | | | | | | |
| nutrient efficient | | | | | | | | |
| diet designing | | | | | | | | |
| Production and use | | | | | | | | |
| of organic inputs | | | | | | | | |
| Gender | | | 19 | 12 | 31 | 19 | 12 | 31 |
| mainstreaming | 2 | | | | | | | |
| through SHGs | | | | | | | - | |
| TOTAL | 11 | | 96 | 69 | 165 | 96 | 69 | 165 |

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

| Date | Client ele | Title of the training | Discipli ne | Themat ic area | Duratio n in days | Venue (Off / On | Nun othe part | nber o er ticipai | of nts | Nun SC/S | nber o ST | of | Total number of participangs | | |
|------|---------------|-----------------------------|----------------|-------------------|-------------------------|-----------------------|---------------------|-------------------------|-----------|-------------|----------------|-----------|------------------------------------|----------------|-----------|
| | | program me | | | | Camp us) | M ale | Fe m ale | To tal | M ale | Fe m ale | To tal | M ale | Fe ma le | To tal |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Cron / | | | | | No. | of Particip | ants | Self | employed a | after training | |
|------------------|---------------------------|--|---|--------------------|------|-------------|-------|---------------------|--------------------|----------------------------------|--|
| Enterpri se | Date | Training title* | Identified Thrust Area | Duration (days) | Male | Female | Total | Type of units | Number of units | Number of persons employed | Number of persons employed else where |
| Jhum paddy | 15 th April | Weed management and soil conservation | Weed and soil management | 3 | 13 | 12 | 25 | | | | |
| Passion fruit | 21 April | Lay out and management | Systematic planting system | 3 | 11 | 14 | 25 | | | | |
| Piggery | 23 Feb. | Feed management | Feed formulation using locally available feeds | 3 | 15 | 10 | 25 | | 8 | 8 | |

(E) Sponsored Training Programmes

| SI.N | Date | Title | | Themati | Durati | Client | No. | D. No. of Participants | | | | | | Sponso | Amount | | | |
|-------|--------------------------|---|----------------|---|--------------|----------------|-------------------|------------------------|------------|-----------|-------|--------|-------|--------|------------|-----------|---|------------------------------|
| 0 | | | Discipl ine | c area | on (days) | (PF/RY/EF) | of cours es | Othe | rs | | SC/ST | | | Total | | | ring Agency | of fund received (Rs.) |
| | | | | | | | | Mal e | Fem ale | To tal | Male | Female | Total | Male | Femal e | Tot al | | |
| 1 | 17 th Jan. | Production of bee colonies and wax sheets | Entom ology | Bee keeping | 3 | PF | 2 | | | | 16 | 9 | 25 | | | | Nagalan d Honey bee Mission | 30,000 |
| 2 | 14 th Oct | Crop production & A.H | | Increase productio n of crops & livestock manage ment | 3 | RY | 3 | | | | 20 | 22 | 42 | | | | Student Union, Asangm a Village | 25,000 |
| Total | | | | | 6 | | 5 | | | | 36 | 31 | 67 | | | | | 55,000 |

3.4. Extension Activities (including activities of FLD programmes)

| | | Purpose/ | No. Participants | | | | | | | | | | | | |
|-----|---|--|------------------|---------|--------|----------|------|------|-------------|-----------|-------|-------------|-----|-------|-------|
| SI | Nature of Extension | topic and Date | of | F (O | armers | S (1) | (Fa | SC/S | Г s)(II) | E) Off | tensi | on (III) | Gr | and T | otal |
| N | Activity | Dato | activ | Male | Femal | Tota | Male | Fema | Total | Ma | Fem | Tota | Mal | Fem | ·/ |
| о. | , iourny | | ities | maic | e | | maic | le | i otai | le | ale | I | e | ale | Total |
| 1. | Field Day | Rapeseed 12.11.08 25.11.08 17.12.08 20.12.08 | 4 | | | | 32 | 39 | 71 | 9 | 6 | 15 | 41 | 45 | 86 |
| 2. | Field Day | Pea 22.10.08 11.11.08 16.12.08 | 3 | | | | 24 | 30 | 54 | 9 | 10 | 19 | 33 | 40 | 73 |
| 3. | Field day | Mustard 15.11.08 18.12.08 | 2 | | | | 28 | 34 | 62 | - | - | - | 28 | 34 | 62 |
| 4. | Field Day | Groundnut 16.05.09 21.07.09 | 2 | | | | 24 | 22 | 46 | 6 | 7 | 13 | 30 | 29 | 59 |
| 5. | Field day | French bean 18.11.08 10.12.08 16.06.09 | 3 | | | | 27 | 31 | 58 | 8 | 7 | 15 | 35 | 38 | 73 |
| | Total | | 14 | | | | 135 | 156 | 291 | 32 | 30 | 62 | 167 | 186 | 353 |
| 6. | Kisan Ghosthi | | 11 | | | | 116 | 130 | 246 | 68 | 59 | 127 | 184 | 189 | 373 |
| 7. | Exhibition | | 1 | | | | | | | | | | | | |
| 8. | Film Show | | 10 | | | | | | | | | | | | |
| 9. | Farmers Seminar | | 2 | | | | 50 | 35 | 85 | | | | 50 | 35 | 85 |
| 10. | Workshop | | | | | | | | | | | | | | |
| 11. | Group meetings | | 8 | | | | 90 | 70 | 160 | 11 | 15 | 26 | 101 | 85 | 186 |
| 12. | Lectures delivered as resource persons | | 15 | | | | | | | | | | | | |
| 13. | Newspaper coverage | | 2 | | | | | | | | | | | | |
| 14. | Radio talks | | 6 | | | | | | | | | | | | |
| 15. | Advisory Services | | 7 | | | | 25 | 30 | 55 | | | | 25 | 30 | 55 |
| 16. | Scientific visit to farmers field | | 11 | | | | 60 | 45 | 105 | | | | 60 | 45 | 105 |
| 17. | Farmers visit to KVK | | 16 | | | | 120 | 207 | 327 | | | | 120 | 207 | 327 |
| 18. | Diagnostic visits | | 10 | | | | 59 | 67 | 126 | | | | 59 | 67 | 126 |
| 19. | Animal Health Camp | | 2 | | | | 25 | 35 | 60 | | | | 25 | 35 | 60 |
| 20. | Self Help Group Conveners meetings | | 5 | | | | 15 | 45 | 60 | | | | 15 | 45 | 60 |
| | Total | | 106 | | | | 560 | 664 | 1224 | 79 | 74 | 153 | 639 | 738 | 1377 |
| | Grand Total | | 120 | | | | 695 | 820 | 1515 | 111 | 104 | 215 | 806 | 924 | 1730 |

3.5 Production and supply of Technological products

SEED MATERIALS

| Major group/class | Сгор | Variety | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|-------------------|-------------|-----------------------|--------------------|----------------|----------------------------|
| CEREALS | | | | | |
| OILSEEDS | | | | | |
| | | | | | |
| | Soybean | JS-335 | 2.6 | 10400 | 35 |
| | | | | | |
| PULSES | | | | | |
| | French bean | Mutre (local) | 2 | 7000 | 20 |
| | Rice bean | Chakesang dwarf local | 1.5 | 5250 | 15 |
| | Pea | Azad | 0.70 | 2100 | 15 |
| VEGETABLES | | | | | |
| | | | | | |
| FLOWER CROPS | | | | | |
| OTHERS (Specify) | | | | | |

SUMMARY

| Sl. No. | Major group/class | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|---------|-------------------|-----------------|-------------|-------------------------------|
| 1 | CEREALS | | | |
| 2 | OILSEEDS | 3.6 | 14900 | 55 |
| 3 | PULSES | 4.2 | 14350 | 50 |
| 4 | VEGETABLES | | | |
| 5 | FLOWER CROPS | | | |
| 6 | OTHERS | | | |
| | TOTAL | 7.8 | 29250 | 105 |

PLANTING MATERIALS

| Major group/class | Crop | Variety | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|-------------------|------------------|---------|-----------------|-------------|----------------------------|
| FRUITS | | | | | |
| | Passion fruit | Kavery | 1000 | 5000 | 10 |
| SPICES | | | | | |
| VEGETABLES | | | | | |
| FOREST SPECIES | | | | | |
| | Alder | Local | 1000 | 5000 | 50 |
| ORNAMENTAL CROPS | | | | | |
| PLANTATION CROPS | | | | | |
| Others (specify) | | | | | |

SUMMARY

| Sl. No. | Major group/class | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|---------|-------------------|-----------------|-------------|-------------------------------|
| 1 | FRUITS | 1000 | 5000 | 10 |
| 2 | VEGETABLES | | | |
| 3 | SPICES | | | |
| 4 | FOREST SPECIES | 1000 | 5000 | 50 |
| 5 | ORNAMENTAL CROPS | | | |
| 6 | PLANTATION CROPS | | | |
| 7 | OTHERS | | | |
| | TOTAL | 2000 | 10000 | 60 |

BIO PRODUCTS : NA

| Major group/class | Product Name | Species | Quantity | | Value (Rs.) | Provided |
|-----------------------|--------------|---------|----------|------|-------------|-----------|
| | | | No | (kg) | | to No. of |
| | | | | | | Farmers |
| | | | | | | |
| BIOAGENTS | | | | | | |
| | | | | | | |
| BIOFERTILIZERS | | | | | | |
| BIO PESTICIDES | | | | | | |

SUMMARY

| | Product Name | Species | Qua | ntity | Value (Rs.) | Provided to |
|---------|--------------------|---------|-----|-------|-------------|-------------------|
| Sl. No. | | | Nos | (kg) | | No. of Farmers |
| 1 | BIOAGENTS | | | | | |
| 2 | BIO FERTILIZERS | | | | | |
| 3 | BIO PESTICIDE | | | | | |
| | TOTAL | | | | | |

LIVESTOCK :NA

| Sl. No. | Туре | Breed | Quantity | | Value (Rs.) | Provided to No. of Farmers |
|------------------|------|-------|----------|-----|-------------|----------------------------|
| | | | (Nos | Kgs | | |
| | | | | | | |
| Cattle | | | | | | |
| SHEEP AND GOAT | | | | | | |
| POULTRY | | | | | | |
| FISHERIES | | | | | | |
| Others (Specify) | | | | | | |

SUMMARY

| | | | Qua | antity | | |
|---------|-----------|-------|-----|--------|-------------|----------------------------|
| Sl. No. | Туре | Breed | Nos | Kgs | Value (Rs.) | Provided to No. of Farmers |
| 1 | CATTLE | | | | | |
| 2 | SHEEP & | | | | | |
| | GOAT | | | | | |
| 3 | POULTRY | | | | | |
| 4 | FISHERIES | | | | | |
| 5 | OTHERS | | | | | |
| | TOTAL | | | | | |

3.6. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

| ltem | Title | Authors name | Number of copies |
|-------------------|--|----------------|------------------|
| Research papers | | | |
| | | | |
| Total | | | |
| Technical reports | | | |
| News letter | KVK Mokokchung, News letter | KVK Mokokchung | 250 |
| Popular articles | | | |
| Leaflets/folders | Citrus Rejuvenation Seed treatment with bio-fertilizer in cereal crops Indigenous method of seed conservation Compost Making Care and Management of piglets Pest of Rice and their Management | KVK Mokokchung | 1200 |
| Others | A Field guide on SRI Technology for extension staf | KVK Mokokchung | 100 |
| Total | 7 | | |
| GrandTOTAL | 7 | | 1550 |

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced

| S. | No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|----|-----|--|--|--------|
| | 1 | CD | High yielding paddy cultivars for Mokokchung district | 25 |

3.7. Success stories/Case studies.

YISEMYONG BEE FARMERS SOCIETY

This is a success story on Public Private Partnership (PPP) in which each sector contributes, accomplish mutual objectives.

Apiculture is enterprise practice by 30 farmers in Yisemyong which is one of their main secondary source of income. However they were practicing primitive methods of beekeeping and without organized group and market outlet.

Sensing its importance and potential the KVK Mokokchung approach the Nagaland Bee and Honey Mission (NBHM) to promote a collaborative project. The NBHM in collaboration with our KVK organized and imparted three days training at Yisemyong to 50 farmers on Latest Scientific Management in the field of bee keeping during 2007.

After the training the bee farmers have formed a society comprising of 14 members and got registered through the initiative of KVK. The NBHM too come forward and tie up with the society in the form of PPP. By establishing this PPP the communication handicap is now bridged.

Now each society members are keeping 20 to 50 bee hives and the honey is directly purchase by NBHM.On their part the NBHM is providing bee boxes, honey extractors equipments etc on subsidized rate and also update the farmers knowledge through trainings, exposure trips etc where KVK is taking active part. Recently the NBHM has placed an order to make 2000 nos. of bee boxes by the society @ Rs.800/ box and the members are actively engaged in making the boxes.

At present on an average each members are earning Rs.5000/- per harvesting season and the NHM is going to fulfill its objective of exporting organic honey outside the state. It is widely recognized that the productivity level of agricultural and horticultural crops has been enhanced through cross pollination in an around Yisemyong and thus provide important linkages through these farming system.

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year : NA

^{3.9} Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs):NA

| S. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
|--------|-------------------|---------------|----------------|
| | | | |

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : PRA, Transect walk, Matrix ranking

- Rural Youth : PRA, Bio-resource flow model

- Inservice personnel : PRA, Group discussion





3.11 Field activities

- i. Number of villages adopted : 3
- ii. No. of farm families selected : 24
- iii. No. of survey/PRA conducted : 5

3.12. Activities of Soil and Water Testing Laboratory :NA

Status of establishment of Lab

- 1. Year of establishment
- 2. List of equipments purchased with amount

| SI. No | Name of the Equipment | Qty. | Cost |
|--------|-----------------------|------|------|
| 1 | | | |
| Total | | | |

:

÷

:

•

3. Details of samples analyzed so far

| Details | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|-----------------|----------------|----------------|-----------------|-----------------|
| Soil Samples | | | | |
| Water Samples | | | | |
| Plant Samples | | | | |
| Petiole Samples | | | | |
| Total | | | | |

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

| Name of specific technology/skill | No. of | % of | Change in income (Rs.) | | |
|---|--------------|----------|------------------------|------------------|--|
| transferred | participants | adoption | Before (Rs./Unit) | After (Rs./Unit) | |
| Cultivation of French bean (Mutre –local) | 15 | 50 | 2000 | 2850 | |
| Cultivation of rice bean (Chakhesang local dwarf) | 15 | 50 | 3800 | 4900 | |
| Cultivation of pea (Azad) | 12 | 45 | 2500 | 3300 | |
| Cultivation of soybean (JS-335) | 15 | 45 | 4400 | 5400 | |
| Cultivation of Toria (TS-38) | 15 | 40 | 3500 | 4800 | |

4.2. Cases of large scale adoption: NA

4.3 Details of impact analysis of KVK activities carried out during the reporting period

IMPACT STUDY REPORT

Age old traditional systems of cultivation practicing is still prevalent among the farming communities in the district. Except in few cases, majority are not aware and does not practice advanced and improved technologies farming. The district being endowed with a very favourable agro-climatic condition with vast potentiality for all types of farming enterprises. But due to ignorance and easy nature, the technologies leaved unused which ultimately led to poor production. Considering overall situation, KVK Mokokchung, with an aim to improve upon the existing farming system with improved technologies imparted awareness, knowledge and skill through OFTs, FLDs, trainings and other extension activities. to bring about a change in the livelihood of the farming communities.

To assess the impact of KVK interventions, a case study was conducted at Kobulong, Changtongya, Asangma, Ungma and Mopungchuket under Mokokchung district with the following objectives:

- 1. To study and assess exist traditional practices
- 2. To assess adoption of new technologies.

- 3. To study change in economic status of the farming families.
- 4. To assess future strategy and intervention

The study was conducted using a semi-structured interview, twenty five persons from each village took part. Fifty percent of the respondents were women.

Brief documentation of process involved are highlighted below:

All the respondents were from farming families and engaged in one or the other activities/enterprise and some even have experiences of working in group. Most of the farmers are found to be jhumias (Jhum farmers). Through participatory ranking it was identified that the main crops of the selected villages were paddy followed by tapioca. This is mainly due to land topography and lack of irrigation facilities. The farmers usually grow tapioca as an animal feeds along with Jhum paddy or as crop rotation after paddy. Almost all the farmers practices age old traditional method for farming using locally available seeds.

The KVK intervened with an aim to improve upon the present traditional practices by imparting training, conducting OFTs and FLDs, supplied improved varieties of seeds. Thirty five percent of the trained farmers indicated a good level of adoption. It was observed that the adoption of the improved package of technologies among the farmers stood at 45% and a satisfactory impact indicator as observed was that the performance in production and productivity has improved considerably by upto 10% increase in production and productivity. The products of the farmers were also exhibited during Independence and Republic days and much to be note they also received awards. At the same time a variety of factors were responsible for non adoption of the new technologies major among which were that most of time they find it difficult to move from the traditional system of farming which is still the predominant system, fragmented land holding and financial constrains.

At present the farmers are fetching good harvest from their enterprises. The farm products are either consumed at home or sold in the local markets and earns a good return. Due to higher productivity the economic status of the farming families has undergone some improvement. They are able to procure additional home needs (two farmers purchased a colour television and another three of them are now using mobile phones). With their additional income twenty famers has revealed that they will be increasing the area of their farm by 20%. It was assumed that with this level of improvement and enthusiastic better change in economic status is further anticipated.

The performance of these famers (who has adopted the new technologies) is having a good impact on the other farmers as well which has been testified by more other farmers contacting our office for providing them with necessary technical guidance.

Constraints:

Some of the major constraints reported by the respondents are listed below.

- 1. In tomato the yield is better under shade condition but to construct a shade for large scale cultivation is a problem because the cost of construction is high. (tomato)
- 2. Construction of separate room for rearing in large scale/ financial constraint. (sericulture)
- 3. Fencing problems for Stray animals. (field crops)
- 4. Lack of marketing facilities.
- 5. Post harvest management.
- 6. Difficulty in getting good breed of animals.
- 7. Lack of pastureland.
- 8. Restricted free grazing.

Future strategies:

From the case study it is evident that there is high potentiality for large scale cultivation for food crops and the farmers are also taking keen interest. Therefore, to overcome the present constraints some of the strategies are as follow;

- 1. Location specific crops which fetch more income to the farmers should be well refine and expansion of area to be encouraged.
- 2. Promotion of farming system model in the village.
- 3. To develop better communication among the farmers and the Scientists.
- 4. To identify source of financial assistance.
- 5. To imparting knowledge and skill on seed storage management.

After KVK intervention there has been an increase in crop yield through adoption of new system, the farmers are convinced and are willing to continue cultivating improved varieties provided seed inputs are available. However, during implementation of any programmes the traditional practices of the farmers should be taken into consideration and improve upon it. Extension functionaries and scientists need to educate, disseminate and encourage the farmers on adoption of improved technologies, post harvest management etc to bring about a change in crop production measures. Inputs like seeds etc should also be made available to the farmers in time and also timely back up of the activities should be done for successful implementation of programmes.

5.0 LINKAGES

| Name of organization | Nature of linkage | | | | | | |
|---|--|--|--|--|--|--|--|
| State Agricultural Research Station (SARS) | Joint implementation in conducting training, | | | | | | |
| Yisemyong, AICRIP demonstration, meeting, trials etc. | | | | | | | |
| DAO, DHO, DVO, DSCO in the district | Conducting training, demonstration programmes | | | | | | |
| ICIMOD, Kathmandu | Conducting Field Research activities. | | | | | | |
| ICAR, Jharnapani, Nagaland University | Consultation, meeting and exchange of technologies | | | | | | |
| AIR Doordashan Mokokchung | Technology dissemination through broadcasting media through AIR by staff of KVK. | | | | | | |
| National Fisheries Development Board (NFDB) | Implementation of NFDB programmes | | | | | | |
| Nagaland Bee and Honey Mission(NBHM) | Conducting training, demonstration programmes | | | | | | |

5.1 Functional linkage with different organizations

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies : NA

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|--------------------|------------------------------|----------------|--------------|
| | | | |

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

| S. No. | Programme | Nature of linkage | Remarks |
|---------|--|---|--|
| 1 | Training, Demonstration, Exhibition | Resource person and programme implementation as AMC and BTT members | 75 % of ATMA activities implemented by KVK |
| 5.4 Giv | e details of programmes impl | emented under National Horticul | tural Mission: NA |
| S. No. | Programme | Nature of linkage | Constraints if any |
| | | | |

5.5 Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Remarks |
|--------|----------------------------|------------------------|---------|
| | Training and Demonstration | As resource person and | |
| 1 | _ | implementation of NFDB | |
| | | programmes | |

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm): NA

| <u>e</u> i | Domo | Voar of | | Details of | of production | on | Amour | it (Rs.) | Pomo |
|------------|------|---------|------|------------|---------------|------|-------------------|-----------------|------|
| No. | Unit | estt. | Area | Variety | Produce | Qty. | Cost of inputs | Gross income | rks |
| | | | | | | | | | |

6.2 Performance of instructional farm (Crops) including seed production

| News | Date of sowing | Data af | ha) | Det | ails of product | ion | Amou | nt (Rs.) | |
|-----------------|----------------|----------------------------------|------------|----------------|-------------------------------------|-------------|----------------------|-----------------|--|
| Of the crop | | harvest | Area (| Variety | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| Cereals | | | | | | | | | |
| Maize | 25/3/09 | 1 st july | 0.035 | HQPM -1 | Cob | 0.75 | 350 | 605 | Yield was satisfactory |
| D. Isos | | | | | | | | | |
| Puises | 0 /00 /00 | | | · | · · · · · · · · · · · · · · · · · · | | | | |
| French bean | 3/03/09 | 4/05/09 | 0.02 | Local mutre | Pod | 0.5 | 200 | 260 | Some quantity of seeds are preserved for next season |
| Green gram | 3/06/09 | On going | 0.0194 | Pratap | Pod | - | - | - | Yet to analyse yield & gross income |
| Black gram | 29/06/09 | On going | 0.02 | PU - 31 | Pod | - | - | - | Yet to analyse yield & gross income |
| Cowpea | 18/05/09 | 04 to 17 th /08/09 | 0.0195 | NS - 634 | Pod | 0.35 | 200 | 350 | Sowing time was late, poor vield |
| Dhaincha | 07/04/09 | Green manure | 0.05 | | Green manure | | 350 | | Before flowering the whole plant was in- coborated in the soil |
| Oilseeds | | | 1 | 1 | | | | | |
| Groundnut | 13/06/09 | On going | 0.0295 | JL -24 | Pod | On going | - | - | Yet to analyse |
| Spices & Planta | ation crops | • | - . | • | | | | | · • |
| Turmeric | 28/05/08 | On going | 0.0585 | Megha -1 | Rhizome | On goina | - | - | Yet to analyse |
| Vegetables | | | | | 1 | 3- 3 | | | |

| | | | | | | | | | 55 |
|-----------------|----------|--|--------|----------------|--------|-------------|-----|------|---|
| Potato | 09/11/08 | 06/01/09 | 0.01 | Kufri jyoti | Tuber | 0.65 | 200 | 420 | Red ants infestation observed |
| Chilli | 03/04/09 | 10-30 /07/09 | 0.009 | Pusa jwala | Fruit | 0.65 | 200 | 730 | Yield was satisfactory |
| Tomato | 07/01/09 | 20 th /04/09 to 15 th /05/09 | 0.0495 | Sel –II | Fruit | 1.5 | 450 | 1500 | Yield was satisfactory |
| Aochisan | 04/06/09 | On going | 0.003 | Local | Leafy | 0n going | | | Yet to analyse |
| Others (specify | y) | | | | | | | | |
| Pig weed | 01/04/09 | On going | 0.003 | Local | Leaves | On going | | | Yet to analyse yield & gross income |

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Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

| SI. | Name of the | | Amour | Dementer | | |
|-----|------------------|-----|----------------|--------------|-------------------|--|
| No. | Product | Qty | Cost of inputs | Gross income | Remarks | |
| 1 | Vermi compost | 2 | 18,000 | | Newly constructed | |

6.4 Performance of instructional farm (livestock and fisheries production) : NA

| Name | Name | Detai | Is of production | | Amou | | |
|-----------|--|-------|--------------------|------|----------------|--------------|---------|
| SI. No | of the animal / bird / aquatics | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| | | | | | | | |

6.5 Rainwater Harvesting: NA

Training programmes conducted by using Rainwater Harvesting DemonstrationUnit :NA

| Data | Title of the training | Client | No. of | No. inc | of Partici luding SO | ipants C/ST | No. | of SC/STP | articipants |
|------|-----------------------|----------|---------|------------|-------------------------|----------------|------|-----------|-------------|
| Date | course | (PF/RY/E | Courses | Male | Femal | Total | Male | Female | Total |
| | | F) | | | e | | | | |
| | | | | | | | | | |

6.5 Utilization of hostel facilities

Accommodation available (No. of beds) : 30 (Used SARS farmers hostel)

| Months | Title of the training course/Purpose of stay | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---------------|---|------------------------------|----------------------------------|--------------------------------------|
| October 2008 | Winter crops cultivation | 25 | 75 | |
| Total | | 25 | 75 | |
| November 2008 | | | | |
| | Post harvest management | 20 | 60 | |
| Total | | 20 | 60 | |
| December 2008 | | | | |
| Total | | | | |
| January 2009 | | | | |
| Total | | | | |
| February 2009 | Integrated Nutrient Management | 25 | 75 | |
| | Potato – cultivation and post harvest management | 25 | 75 | |
| | | 50 | 150 | |
| Total | | | | |
| March 2009 | Methods of composting | 25 | 75 | |
| Total | | 25 | 75 | |
| April 2009 | | | | |

| | System of Rice Intensification | 25 | 50 | |
|----------------|--------------------------------|-----|-----|--|
| Total | | 25 | 50 | |
| May 2009 | | | | |
| | Indigenous feed and fodder | 25 | 75 | |
| | management | | | |
| | Integrated Pest management | 25 | 75 | |
| Total | | 50 | 150 | |
| June 2009 | Weed management | 25 | 50 | |
| | Poultry production | 25 | 50 | |
| Total | | 50 | 100 | |
| July 2009 | Livestock - disease | 25 | 75 | |
| Total | | 25 | 75 | |
| August 2009 | Rejuvenation of old orchard | 25 | 75 | |
| Total | | 25 | 75 | |
| September 2009 | | | | |
| Total | | | | |
| Grand total | | 525 | 810 | |

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number |
|---------------------|------------------|----------------|----------------|
| With Host Institute | SBI | Lerie , Kohima | 01000050059 |
| With KVK | SBI | Mokokchung | 01000050913 |

7.2 Utilization of funds under FLD on Oilseed (*Rs. In Lakhs*)

| | Released by ICAR | | Expenditure | | Uncount balance as on 1 st April |
|----------------------|------------------|------------------|----------------|-----------------|---|
| ltem | Kharif 2008 | Rabi 2008 –09 | Kharif 2008 | Rabi 2008-09 | 2009 |
| Inputs | 9975 | 6650 | 9975 | 6650 | Nil |
| Extension activities | 1425 | 950 | 1425 | 950 | Nil |
| TA/DA/POL etc. | 2850 | 1900 | 2850 | 1900 | Nil |
| TOTAL | 14250 | 9500 | 14250 | 9500 | |

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs)

| | Released by ICAR | | Expenditure | | Unspent |
|----------------------|------------------|------------------|----------------|-----------------|---|
| ltem | Kharif 2008 | Rabi 2008 -09 | Kharif 2008 | Rabi 2008-09 | balance as on 1 st April 2009 |
| Inputs | 12500 | 13300 | 12500 | 13300 | Nil |
| Extension activities | 2400 | 1900 | 2400 | 1900 | |
| TA/DA/POL etc. | 4100 | 3800 | 4100 | 3800 | |
| TOTAL | 19000 | 19000 | 19000 | 19000 | |

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs): NA

| ltem | Released by ICAR Kharif 2007 | Expenditure Kharif 2007 | Unspent balance as on 1 st April 2008 |
|----------------------|------------------------------------|-------------------------------|--|
| Inputs | | | |
| Extension activities | | | |
| TA/DA/POL etc. | | | |
| TOTAL | | | |

7.5 Utilization of KVK funds during the year 2007 -08 and 2008 -09 (upto Sep. 2009) (year-wise separately) (current year and previous year)

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|-----------|--|------------|-----------|-------------|
| A. Re | curring Contingencies | | | |
| 1 | Pay & Allowances | 27,00,000 | 27,00,000 | 27,00,000 |
| 2 | Traveling allowances | 75,000 | 50,000 | 50,000 |
| 3 | Contingencies 5,00, | ,000 5,0 | 00,000 | |
| Α | Stationery, telephone, postage and other expenditure on office | | | |
| | running, publication of Newsletter and library maintenance | | | |
| | (Purchase of News Paper & Magazines) | | | 76,059 |
| В | POL, repair of vehicles, tractor and equipments | | | 68,941 |
| С | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee | | | |
| | be maintained) | | | 1,43,193 |
| D | Training material (posters, charts, demonstration material | | | |
| | including chemicals etc. required for conducting the training) | | | 95,462 |
| E | Frontline demonstration except oilseeds and pulses (minimum | | | 00.400 |
| | of 30 demonstration in a year) | | | 36,160 |
| - F | On farm testing (on need based, location specific and newly | | | |
| | generated information in the major production systems of the | | | 24.045 |
| <u> </u> | died) | | | 34,910 |
| G U | Maintenance of huildings | | | 45,270 |
| H I | Maintenance of buildings | | | |
| | Establishment of Soli, Plant & Water Testing Laboratory | | | |
| J | | | | |
| - N | | | | |
| B. NO | n-Recurring Contingencies | | | T |
| 1 | Works | | | |
| 2 | Equipments including SWTL & Furniture | | | |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | | | |
| | TOTAL (B) | | | |
| C. RE | VOLVING FUND | | | |
| | GRAND TOTAL (A+B+C) | | | 32,50,000 |

7.5 Status of revolving fund (Rs. in lakhs) for the three years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|--------------------------|---|------------------------------|-----------------------------|--|
| April 2005 to March 2006 | | | | |
| April 2006 to March 2007 | | | | |
| April 2007 to March 2008 | 1,00,000 | Nil | 25,000 | 75,000 |
| April 2008 to March 2009 | 75,000 | 30,500 | 12,000 | 18,500 |

8.0 Please include information which has not been reflected above (write in detail).

8.1 Constraints

less.

| (a) | Administrative: | Construction of Farmers hostel, Staff quarters, farm fencing |
|-----|-----------------|--|
| (b) | Financial: | Shortage of fund ie. Meals/refreshment @ Rs. 40 per trainee is too |

(c) Technical: Lack of livestock demonstration units, farm machineries like tractor, power tiller, generator/ UPS batteries.

District Profile - I

Include the details of

General census Basic information about Mokokchung district:

1. Population Census (2001)

| a) Total Population | - | 2,27,230 |
|--------------------------------|---|--------------------|
| b) Rural Population | - | 1,96,026 |
| c) Cultivators | - | 1,33,020 |
| d) % of farming population | - | 58.54% |
| 2. Total geographical area | - | 1,615 Sq km. |
| 3. Average Jhum Cycle | - | 10.5 yrs |
| 4 Food grain Production | - | 36731 MT (2005-06) |
| 5. Commercial Crops Production | - | 52726 MT (2005-06) |
| 6. Oilseed production | - | 1013 MT (2005-06) |
| | | |

Agricultural and allied census

Area, Production and Productivity of major crops cultivated in the district

| SI.No. | Crop | Area (ha) | Production (Qtl) | Productivity(Qtl/ha) |
|--------|---------------|-----------|------------------|----------------------|
| 1 | Jhum paddy | 11390 | 246400 | 21.63 |
| 2 | TRC paddy | 4960 | 153000 | 30.84 |
| 3 | Maize | 1028 | 16345.2 | 15.9 |
| 4 | Tapioca | 1050 | 308910 | 294.2 |
| 5 | Mustard | 795 | 5000 | 06.3 |
| 6 | Tomato | 28 | 7600 | 271.4 |
| 7 | Potato | 125 | 8700 | 69.6 |
| 8 | Colocassia | 1500 | 127500 | 85 |
| 9 | Passion fruit | 908 | 24970 | 27.5 |
| 10 | Orange | 460 | 7636 | 16.6 |
| 11 | Banana | 270 | 3888 | 144.4 |
| 12 | Pineapple | 340 | 4930 | 14.5 |
| 13 | Pear | 16 | 3500 | 218.7 |
| 14 | Tea | 520 | 3120 | 6 (made tea) |
| 15 | Arecanut | 44 | 600 | 15 |

Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population | Production | Productivity |
|-------------------|------------|------------|-----------------|
| Cattle | | | |
| Crossbred | 2125 | 29.87 tons | 6 litrs/day |
| Indigenous | 1437 | - | - |
| Buffalo | 250 | - | - |
| Goats | 3278 | 14.75 tons | 9 kg/year |
| Pigs | | | |
| Crossbred | 81,345 | 2870 tons | 110 kg/year |
| Hens | 1,01,287 | 3000 | 20 eggs/year |
| Desi | 20,12,325 | 1042 tons | 1.1 kg/8 months |
| Ducks | 491 | 290 kg | 1 kg/6 months |
| Turkey and others | | | |

| Category | Area | Production | Productivity |
|----------|----------|------------|--------------|
| Inland | 5,00,000 | 10 tons | 1 kg/year |
| Prawn | | | |

| No | Agro-climatic Zone | Characteristics | | |
|----|------------------------|-----------------|--|--|
| 1 | Mid Tropical hill Zone | 1. | Hot and humid in the foot hills to moderate in the mid | |
| | | | and high with heavy rainfall during summer | |
| | | 2. | Moderate to extreme cold and dry during winter | |

Agro-ecosystems

Description of major agro ecological situations (based on soil and topography)

| No | Agro ecological situation | Characteristics |
|----|---------------------------|--|
| 1 | AES – 1 (Below 500 msl) | Hot & Humid with sub tropical climate |
| 2 | AES – II (500-1000 msl) | Moderate, sub-montane hill zone |
| 3 | AES – III (1000-1500 MSL) | Moderate to extreme cold and dry during winter |
| 4 | AES – IV (Above 1500 msl) | Moderate to extreme cold and dry during winter |

Major and micro-farming systems Major farming systems existing in the district * (based on the study made by the KVK)

| No | Farming systems identified |
|----|---|
| 1 | Agriculture +Horticulture |
| 2 | Agriculture + Veterinary |
| 3 | Agriculture + Fishery |
| 4 | Agriculture + Horticulture + Veterinary + Fishery |

Major production systems like rice based (rice-rice, rice-green gram, etc.), cotton based, etc.

✓ Jhum paddy based mixed cropping system like jhum paddy-colocassia-beans-maize

Major agriculture and allied enterprises

✓ Agriculture + Horticulture

Agro-ecosystem Analysis of the focus/target area - II

Include

Names of villages, focus area, target area etc.

| S.No | Target area | Agro- ecosystem | Survey method |
|------|--------------|-----------------|---|
| 1 | Mopongchuket | AES – III | PRA, transect walk, matrix ranking, bio |
| 2 | Longkhum | AES-IV | resource flow model |
| 3 | Changtongya | AES-II | |
| 4 | Longnak | AES-I | |
| 5 | Lakhuni | AES-II | |

Survey methods used (survey by questionnaire, PRA, RRA, etc.)

✓ PRA, transect walk, matrix ranking, bio resource flow model

Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.

✓ Participatory method of resource mapping on the ground using leaves, stones, twigs and other materials. Major enterprises were displayed on a chart and the participants were asked to rank the enterprises as per their preference

Along with the participants the results were complied in a fresh chart paper and the major enterprises were displayed in accordance to their ranking. With the compiled results, discussion and interaction among the participants was conducted and a list of priority wise was jot out.

| List of location specific problems and brief description of frequency and extent/ inte | tensity/severity of each |
|--|--------------------------|
| problem | |

| Problem | Frequency and extend | Intensity | severity |
|---|----------------------------------|------------------------|-------------------------|
| Deforestation Cutting down of forest area for | | Approx. 8000 ha. | High – Jhum cycle |
| | Jhum every year covering a large | were effect due to | decreasing year by year |
| | area | deforestation | |
| Marketing | Lack of organise market system | Throughout the year | High |
| Indigenous | Low production due to continue | All enterprises | High |
| germplasm | use of age old germplasm | | |
| Livestock feeds | Throughout of the year, covering | Covered all livestock | Moderate |
| | whole district. | | |
| Post harvest | Seasonal, whole district | All crops especially | High |
| | | those perishable items | |
| Processing | Seasonal, whole district | Horticulture crops | High |

Matrix ranking of problems

- 1. Deforestation
- 2. Marketing
- 3. Post harvest and processing
- 4. Indigenous germplasm
- 5. Livestock feed

List of location specific thrust areas

- Appropriate monitoring, evaluation and information systems to facilitate proper planning and effective implementation in Agri & allied sectors.
- Co-ordination & synchronizing in various activities of small farmers with those of the large and medium farmers so as to improve the prospects of growth for the small farmers.
- Shaping agriculture and allied sectors to commercial enterprise through individual ownership and joint cultivation.
- Implementation of IPM. INM and identification of botanical and other bio control measures for insect pest management.
- Popularization of low cost and high efficiency farm machinery tools and implements.
- Production of certified seeds/ quality planting materials and popularizing newer HYV.
- Collaboration with multi-disciplinary departments/institutions/organizations/ agencies such as ICAR, SAU and CAV, NABARD, ZSI, BSI, NRC on Mithun, GER, ICIMOD, NEPED, State Deptt, ATMA, knowledge partnership for NEH Region etc.
- Promotion of suitable crop rotations and integrated plant nutrient management for better soil productivity.
- Strengthening the marketing channels and credit linkage.
- Identification, characterization, documentation and conservation of indigenous local cultivars in agriculture and allied sectors.
- Strengthening and streamlining the data recording system for better traceability, assistance in efficient implementation of breeding policies and avoid flock of mixed unknown genome with poor productivity.
- Infrastructure development.
- HRD programmes for capacity building.
- Promotion of horticulture and floriculture as well as of medicinal and aromatic plants and herbs, including organic farming and post harvest technology and value addition of different produces.
- Promotion of all forms of animal husbandry, fisheries, dairying and bird life accompanied by promotion
 of fodder cultivation and sustained availability of animal feed and identification analysis of indigenous
 fodder crop.
- Documentation, validation and promotion of ITKs in livestock and poultry production system.
- Developing modules to strengthen service delivery in Agri and Allied sectors.
- Promoting knowledge and skill transfer and application of ICT.

List of location specific technology needs for OFT and FLD

| Crop/enterprise | Technology | OFT | FLD |
|-----------------|--|--|--|
| Toria | TS -36 | INM on toria | - |
| | TS- 38 | | Late sowing with 25% higher seed rate |
| Green gram | Pratap, Meha, TMB -37, SG- 21-5 | Varietal evaluation | |
| Black gram | PU-31, IPU-94- 1, KU- 301,USJD-113 | Performance trial | |
| King Chilli | Naga chilli | | Intercropping with Jhum paddy |
| Rice | SARS-2 | | Critical timing of rodenticide application |
| Piggery | Hampshire | Upgrade local pigs with Hampshire inheritance | |

Matrix ranking of technologies

- 1. Rice
- Piggery
 King chilli
- 4. Toria
 5. Green gram
- 6. Black gram

List of location specific training needs

- 1. Planning for early vegetables to get higher returns, resource conservation technologies, nutrition garden, soil fertility management, scope for farm mechanization and management of livestock's
- 2. Proper management of spices and tuber crops, integrated plant nutrient management, Introduction of high yielding breeds of pig, poultry etc. and their management.
- 3. Processing of fruits and vegetables, propagation of fruits and vegetables and lay out and management of orchards
- 4. Production of low volume high value crops
- 5. Soil conservation, soil fertility management and introduction of improved farm tools and implements
- Training and pruning of fruit plants, organic cultivation of fruits and vegetables, Bio control of pests and 6 diseases, IPM, location specific drudgery reduction technologies, soil water testing and vaccination and health care for animals
- 7. Rejuvenation of declining orchards, management of medicinal and aromatic plants, soil nutrient management, vaccination and health care for animals, mother and child care
- Short duration HYV paddy, SRI method, Vermi-compost and vermin-wash making technique, 8. Production of hybrid maize, QPM and baby corn. Water management, Improved jhuming and fallow management, Seed production in oilseed
- Production of off-season vegetables, Production of cole crops, INM in vegetable crops, Training and 9. pruning of fruit trees, Layout and management of orchard, Nursery raising and management, INM in fruit crops
- 10. Swine fever Prevention, Treatment and control, Promotion of pig breeding farm, balance feeding for economic livestock production
- 11. IPM on paddy and maize, Rodent control/ management, Pesticide formulation and safe handling, Care and up-keepment of PP equipment, Care and management of apiary
- 12. Production of quality seeds and planting materials, Selection and hybridization, Bio-diversity conservation of endangered species
- 13. Gender sensitization, Development of women entrepreneurs in agri and allied sectors, Use of PRA tools, mobilization of social capital in villages, Formation and management of SHGs/ CIGs

- Replacing the long duration Kharif TRC Paddy Varieties with short duration HYV
- Promotion of SRI
- Collection, selection and screening of the local variety of crops
- Creation and recognition of role models amongst farming community
- Post harvest processing and value addition in important agri-horti commodities.
- Conducting OFT and FLD with their critical evaluation for feed back or feed forward
- Development and publication of need based literatures, newsletters, leaflets, pamphlets, manual etc.
- Optimization of crop nutrient requirement through organic and IFS.
- Identification and use of microbes for fast decomposition of organic/crop residues and promotion of
 organic fertility.
- Rain water harvesting, in-situ conservation of water and their judicious use through micro irrigation.
- Promoting feed and fodder resources including locally available fodder for livestock, upgradation of local breeds, management and health care.
- Formation of SHG and promotion of storage, processing and value addition.
- Socio-economic viability approaches.
- Problem identification of the area with community participation approach (PRA) etc.
- Conduction, seminar, trainings, exhibition, conference and workshop etc.
- Development of farmers database.
- HRD, Monitoring evaluation, impact analysis and follow up reporting.
- Documentation on lesser known wild edibles of the district.
- Development of Integrated Farming System Model in the district

Technology Inventory and Activity Chart – III

Include

- 1. Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs
- 2. Inventory of latest technology available

| SI. No | Technology | Crop/enterprise | Year of release or recommendation of technology | Source of technology | Reference/ citation |
|-----------|---|-----------------|---|---|------------------------|
| 1. | TS -36 | Toria | 2006 | RARS, Shillongani, NRC on Rapeseed – Mustard, Bharatpur | NA |
| 2. | Pratap | Green gram | Not yet release | AAU, Jorhat | NA |
| 3. | Megha-1, Sel -1, Punjab chaura, Longkum local | Tomato | 2005 | RARS, Shillongani | NA |
| 4 | IR -64 | Rice | 2004 | IRRI, Philippine | NA |
| 5 | PU -31 | Black gram | 2005 | G.P Pant university of Agri.Sci. & Tech. | NA |

3. Activity Chart

| Crop/Animal/ Enterprise | Problem | Cause | Solution | Activity | Reference of Technology |
|----------------------------|--|--|--|---|-------------------------------|
| Toria | Low productivity under rainfed condition | Use of old aged local cultivars Non adoption of water conservatio n | Introduction of HYV and moisture stress Tolerant varieties Practice of mulching using paddy straw | Single component FLD to demonstrate effect of paddy straw as mulch material OFT on HYV | NA |
| Green gram | Non traditional crop. Less preference in consumptio n | 1. Lack of awareness of its nutritional value and economic importance | Introduction of short duration and high yielding varieties Popularize cultivation | 1.Single component FLD and awareness training 2.OFT on HYV | NA |
| Black gram | Non traditional crop Less preference in consumptio n | 1. Lack of awareness of its nutritional value and economic importance | Introduction of short duration and high yielding varieties Popularize cultivation | 1.Single component FLD and awareness training 2.OFT on HYV | NA |
| Tomato | 1.Low productivity | use of local varieties non adoption of recommend ed practices non availability of improved seeds | Introduction of high yielding varieties, adoption of recommended practices | training and FLD programme on recommended practices OFT on HYV | NA |
| Paddy (WRC) | Low productivity Irrigation problem | 1.convention al method of practices 2. solely depends on rain 3. Lack of irrigation facilities | Adoption of recommended practices proper water management | OFT on water management introduction of promising high yielding varieties | NA |

Include

a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD and OFT

| 1. | Toria (TS -36 & TS | -38): | |
|----|----------------------|----------|----------------------------|
| | Plant height | _ ′ | 42-99 cm |
| | Branches | _ | 3.6 -5.6 |
| | Seeds/siliqua | - | 12-20 |
| | Days of maturity | - | 102-125 |
| 2. | Green gram (pratar | o) | |
| | Plant height | _ | 40 -55 cm |
| | Branches | _ | 5-7 |
| | No. of pods/plant | - | 22-25 |
| | Seeds/ pod | - | 12-14 |
| | Days of maturity | - | 70-80 |
| 3. | Rice bean (Chakes | ang loca | ldwarf) |
| | Plant height | - | 55-80 |
| | No. of pods/plant | - | 54 |
| | No. of branches | - | 7-9 |
| | Days to maturity | - | 100-125 |
| 4. | Soybean (JS-335) | | |
| | Plant height | - | 50-75cm |
| | No. of pods /plant | - | 56 |
| | Days to maturity | - | 110-125 |
| | Resistant to bacteri | al pustu | les and foliar insect pest |

- b. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs
 - French bean/ Kidney bean (var. mutre) Sowing time: 3rd week of Feb. to 2nd week of March for vegetable purpose and 2nd week of Aug. to 1st week of Sept. for seed purpose
 - 2. Rice bean (var, Chakesang local dwarf) Sowing time : 5th to 15th July
- c. Details of location/area specificity of recommended technology viz., for each of the variety/breed/technology selected for FLD and OFT
 - Toria (TS -38 & TS -36) Varieties are late sowing and more tolerance to moisture stress, after the Jhum paddy harvest farmers get enough time for land preparation for sowing