# ANNUAL PROGRESS REPORT

# 2015-16


**Krishi Vigyan Kedra, Jorhat**
**Assam Agricultural University**
**Teok-785112**

# PROFORMA FOR ANNUAL REPORT OF KVKS, 2015-16

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| Krishi Vigyan Kendra, Jorhat<br>Assam Agricultural University<br>Kaliapani, Jorhat (Assam)-785112 | Office | FAX | kvk_jorhat@aau.ac.in |
| | | | |

### 1.2 .Name and address of host organization with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Assam Agricultural University, Jorhat, Assam-13 | | | kvkaau@gmail.com |

### 1.3. Name of the Programme Coordinator with phone & mobile No

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. Rupam Borgohain | | 9435352939 | borgohainrupam@yahoo.co.in |

### 1.4. Year of sanction: 2006

**1.5. Staff Position (As on 31st March, 2016)**

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Programme Coordinator | Dr. Rupam Borgohain | PC | Plant Breeding and Genetics | 37400 – 67000 (GP-10000) | 68710 | 24.12.2009 | Permanent | OBC |
| 2 | Subject Matter Specialist | Ms. Mousumi Phukon | SMS | Entomology | 15600– 39000 (GP-6000) | 25810 | 25.11.2009 | Permanent | OBC |
| 3 | Subject Matter Specialist | Ms. Ira Sarma | SMS | Horticulture | 15600 – 39000 (GP-6000) | 24320 | 05.08.2011 | Permanent | Others |
| 4 | Subject Matter Specialist | Mr. Sanjib Ranjan Borah | SMS | Soil Science | 15600 – 39000 (GP- 7000) | 35192 | 05.02.2014 | Permanent | OBC |
| 5 | Subject Matter Specialist | Ms. Binapani Deka | SMS | Home Science | 15600 – 39000 (GP- 5400) | 21630 | 04.02.2014 | Permanent | Others |
| 6 | Subject Matter Specialist | Mr. Sameeron Bhattacharjya | SMS | Agronomy | 15600 – 39000 (GP- 5400) | 21630 | 01.12.2014 | Permanent | Others |
| 7 | Subject Matter Specialist | Dr. Ilakshy Deka | SMS | Animal science | 15600 – 39000 (GP- 5400) | 21000 | 14.10.15 | Permanent | Others |
| 8 | Programme Assistant | Mr. Biraj Bikash Sharma | Prog. Asst. | Fishery Science | 8000 – 35000 (GP-4900) | 13290 | 07.10.2014 | Permanent | Others |
| 9 | Computer Programmer | Mr. Rupjyoti Chutia | Prog. Assistant (Computer) | Computer Science | 8000 – 35000 (GP-4900) | 14540 | 03.09.2011 | Permanent | Others |
| 10 | Farm Manager | Mr. Ramen Kalita | Farm Manager | Agriculture | 8000 – 35000 (GP-4900) | 13290 | 14.10.2011 | Permanent | OBC |
| 11 | Accountant / Superintendent | Mr. Dibyajyoti Bharali | Accountant cum Office Superintendent | NA | 8000 – 35000 (GP-4900) | 14110 | 21.02.2012 | Permanent | SC |
| 12 | Stenographer | Mr. Biman Jyoti Phukan | Stenographer cum Computer Operator | NA | 5200 – 20200 (GP-3300) | 9310 | 18-2-2012 | Permanent | OBC |
| 13 | Driver | Mr. Pankaj Borah | Driver | NA | 5200- 20200 (GP-2500) | 8430 | 21.02.2012 | Permanent | OBC |
| 14 | Supporting staff | Mr. Putul Borah | Peon | NA | 5200- 20200 (GP-2400) | 14220 | 11.12.2007 | Permanent | Others |
| 15 | Supporting staff | Mr. Krishna Sarma | Peon | NA | 5200- 20200 (GP-2200) | 10870 | 01.12.2007 | Permanent | Others |
| | **Total** | | | | | | | | |

1.6. a. Total land with KVK (in ha) : 11.93
b. Total cultivable land with KVK (in ha): 8.43
c. Total cultivated land (in ha): 5.30

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters) | 1.20 |
| 2. | Under Demonstration Units | 1.00 (RKVY) |
| 3. | Under Crops (Cereals, pulses, oilseeds etc.) | 5.04 |
| 4. | Under vegetables | 0.26 |
| 5. | Orchard/Agro-forestry | 2.13 |
| 6. | Others (specify) | 2.30 |

1.7. Infrastructural Development:

A) Buildings

| S. No. | Name of building | Source of funding | Stage | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | 30.09.2009 | 547 .00 | 42,33,000.00 | - | - | - |
| 2. | Farmers Hostel | ICAR | 10-2-2012 | 311.50 | 17,12,249.00 (Total value 24 lakhs) | - | - | - |
| 3. | Staff Quarters (6nos) | - | - | - | - | - | - | - |
| | a. PC quarter (1no) | ICAR | 30.09.09 | 108.47 | 8,24,177 | - | - | - |
| | b. SMS quarters (2nos) | ICAR | 06.03.09 | 76.65 x 2 | 11,83,565 | - | - | - |
| | c. Farm manager & PA quarter (2nos) | ICAR | 30.09.09 | 96.90 | 7,73,824 | - | - | - |
| | d. Supporting Staff quarters (1no) | ICAR | 06.05.09 | 37.80 | 3,14,300 | - | - | - |
| 4. | **Demonstration Units (15)** | | | | | | | |
| | 1. Cattle shed | RKVY | 2010 | 36.45 | 2,33,972.00 | - | - | - |
| | 2. Vermicompost unit | RKVY | 2010 | 46.80 | 1,41,774.00 | - | - | - |
| | 3. Mushroom Unit | RKVY | 2010 | 27.00 | 1,99,515.00 | - | - | - |
| | 4. Poultry Shed | RKVY | 2011 | 44.40 | 3,41,368.00 | - | - | - |
| | 5. Goattery unit | RKVY | 2011 | 34.20 | 2,49,305.00 | - | - | - |
| | 6. Implement shed | RKVY | 2010 | 170.00 | 9,40,866.00 | - | - | - |
| | 7. Piggery unit | RKVY | 2010 | 41.04 | 2,80,000.00 | - | - | - |
| | 8. Dem -Display unit | RKVY | 2011 | 93.50 | 7,74,700.00 | - | - | - |
| | 9. Fertilizer godown | RKVY | 2011 | 22.79 | 1,63,000.00 | - | - | - |
| | 10. Rice- Fish-Vegetable Unit | RKVY | 2011 | 5332 (4 bighas) | 2,00,000.00 | - | - | - |
| | 11. Fish pond | RKVY | 2010 | 50m x 20m | 68,533.00 | - | - | - |
| | 12. Deep tube well with distribution line | RKVY | 2011 | 287.60 running m. | 4,10,509.00 | - | - | - |
| | 13. Green House | ICAR | 2011 | 10m x 8m | 5,00,000.00 | - | - | - |
| | 14. Automatic Weather Station | RKVY | 2011 | 3m X 3m | 45,000.00 | - | - | - |
| | 15. Azolla production unit | RKVY | 2012 | 9.9m X 5.5m | 2,72,000.00 | - | - | - |
| | 16. Compost production Unit | RKVY | 2012 | 9.6m X 5m | 2,20,000.00 | - | - | - |
| 5 | Fencing | ICAR | 2012 | 800RM | 15,00,000 | - | - | - |
| | | RKVY | 2012 | 980RM | 9,00,562.00 | - | - | - |

B) **Vehicles**

| Type of vehicle | Regd. No. | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|---|---|---|---|---|---|
| Jeep | AS-03-H 9470 | 2008 (ICAR) | 5,00,000.00 | 130889 | Running condition |
| Tractor | AS03 AC-2223 | 2010(RKVY) | 4,59,301.00 | - | Running condition |
| Power tiller (2nos) | - | 2008(RKVY) | 1,36,511.00 | - | Running condition |
| Rice transplanter | - | 2010(RKVY) | 1,88,198.00 | - | Running condition |

C) **Equipments & AV aids**

| Sl. No. | Name of the equipment | Source of Fund | Year of purchase | Cost (Rs.) | Present status |
|---|---|---|---|---|---|
| 1 | Desktop Computer | ICAR | 2007 | 32,000.00 | Working |
| 2 | UPS | ICAR | 2007 | 6,930.00 | Not Working |
| 3 | Laser Printer | ICAR | 2007 | 7,571.00 | Working |
| 4 | Xerox (1) | ICAR | 2010 | 1,01,920.00 | Working |
| 5 | LCD Projector (1) | ICAR | 2010 | 98,000.00 | Working |
| 6 | Digital Camera (1) | ICAR | 2010 | 19,000.00 | Working |
| 7 | Computer (2) | ICAR | 2010 | 55,094.00 | Working |
| 8 | Laser printer (1) | ICAR | 2010 | 5,475.00 | Working |
| 9 | UPS (2) | ICAR | 2010 | 16,474.00 | Not Working |
| 10 | Scanner (1) | ICAR | 2010 | 2,724.00 | Working |
| 11 | Fax (1) | ICAR | 2010 | 15,190.00 | Not Working |
| 12 | Trailer capacity 1.5 tone | RKVY | 2008 | - | Working |
| 13 | Dugged Wheel for 13 HP | RKVY | 2008 | - | Working |
| 14 | Hitch braket with pine set for 13 HP VST Tiller | RKVY | 2008 | - | Working |
| 15 | Five Tyne cultivator for 13 HP VST Sakti power Tiller | RKVY | 2008 | - | Working |
| 16 | Tail wheel float for 13 HP VST power tiller | RKVY | 2008 | - | Working |
| 17 | Wheel Changer for BHP VST Power tiller | RKVY | 2008 | - | Working |
| 18 | Two share MB plough to be fitted with 13 HP VST Sakti power tiller | RKVY | 2008 | - | Working |
| 19 | Handle weight Assembly for 13 HP power tiller | RKVY | 2008 | - | Working |
| 20 | Short rotary for power tiller | RKVY | 2008 | - | Working |
| 21 | Extension lagged wheel for power tiller | RKVY | 2008 | - | Working |
| 22 | Straight blade 18 Nos | RKVY | 2008 | - | Working |
| 23 | Water pump with accessory-suction pipe & head | RKVY | 2008 | - | Working |
| 24 | Legged wheel carrier for power tiller | RKVY | 2008 | - | Working |
| 25 | Motorized knapsack sprayer with 1.2 HP petrol/kerosine engine | RKVY | 2008 | - | Working |
| 26 | Mechanized brush cutter, Model –sparta-37 petrol driven 2 stroke engine | RKVY | 2008 | - | Working |
| 27 | Multi purpose power weeder, Model –APW-43 | RKVY | 2008 | - | Working |
| 28 | Sealing machine(8”) (1.5 x 3) mm sealing width option. | RKVY | 2012 | - | Not Working |
| 29 | Earth augar, Model –MTL-51 | RKVY | 2008 | 45,967.00 | Working |
| 30 | Post hole Digger accessories. | - | - | - | - |
| 31 | i. Auger for digger(6”) | RKVY | 2011 | 3,308.00 | Working |
| 32 | ii. Auger for digger(12”) | RKVY | 2011 | 5,513.00 | Working |
| 33 | iii. Auger for digger(18”) | RKVY | 2011 | 9,371.00 | Working |
| 34 | iv. Auger for digger(24”) | RKVY | 2011 | 13,892.00 | Working |
| 35 | Eight Row self propel rice transplanter | RKVY | 2008 | - | Working |
| 36 | Drag Net (Double knotted 100% nylon machine made) | RKVY | 2008 | - | Working |
| 37 | Fingering catching net(Knotless 100% nylone | RKVY | 2008 | - | Working |
| 38 | Ti -9 tine spring loaded Tiller | RKVY | 2008 | - | Working |
| 39 | Greaves pump set GSP-80B,Engine No- TKG 6748998 pump no-1798 | RKVY | 2008 | - | Working |

| | | | | | |
|---|---|---|---|---|---|
| 40 | Chaff Cutter (J) No. Blade – 2 | RKVY | 2008 | - | Working |
| 41 | T I plough -2 disc (J) | RKVY | 2008 | - | Working |
| 42 | T I Disc Harrow (12 disc) (J) | RKVY | 2008 | - | Working |
| 43 | Lagged wheel | RKVY | 2008 | - | Working |
| 44 | Tail wheel Float | RKVY | 2008 | - | Working |
| 45 | Wheel changer | RKVY | 2008 | - | Working |
| 46 | Hitch bracket | RKVY | 2008 | | Working |
| 47 | Rotavator, 25-35 and 35-50 HP tractor drawn | RKVY | 2008 | - | Working |
| 48 | Puddler | RKVY | 2008 | - | Working |
| 49 | Power paddy weeder | RKVY | 2008 | - | Working |
| 50 | Seed cleaner Model PC-2 | RKVY | 2008 | - | Working |
| 51 | Power sprayer | RKVY | 2008 | - | Working |
| 52 | Knapsack mist blower cum duster | RKVY | 2008 | - | Not Working |
| 53 | Autoclave: Table top | RKVY | 2011 | 8,810.00 | Working |
| 54 | Autoclave vertical, media make, Model-7440PAD, Size-40x60 cm | RKVY | 2011 | 93,638.00 | Working |
| 55 | Horizontal Laminar air flow, Make-Rescolar, Model-RH58-7, Size-120 x 60 x 60 cm | RKVY | 2011 | 57,930.00 | Working |
| 56 | Hot air Oven (600x600x600) mm | RKVY | 2011 | 36,888.00 | Working |
| 57 | Portable Ph meter with 4 digit LCD display | RKVY | 2011 | 2,270.00 | Not Working |
| 58 | B.O.D Incubator(Low temp.) capacity -171 lt. | RKVY | 2011 | 1,22,131.00 | Working |
| 59 | Spirit lamp(Brass) | RKVY | 2011 | 280.00 | Working |
| 60 | Wheel burrow (wheels made of cast iron with solid rubber ring) | RKVY | 2011 | 5,175.00 | Working |

1.8. A). Details SAC meeting Held on **28th March, 2016** * conducted in the year 2015-16

| Sl. No. | Name and Designation of Participants | Salient Recommendations | Action taken on last SAC recommendation |
|---|---|---|---|
| 1. | Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman. | 1.Regarding the TSP programme, Hon'ble Vice-Chancellor, AAU, Jorhat suggested to publish a book covering the success stories of the farmers of Assam<br>2. The Chairman emphasized on pulse crop and needs immediate intervention and suggested KVK, Jorhat to give more emphasis on identification of new pulse growing areas and cover more areas under this crop.<br>3. Director of Extension Education, AAU, Jorhat suggested inclusion of duckery as an important component in poultry sector to develop duck village. He suggested to develop cluster of single village with single breed so that there is no mixing of breed.<br>4.Director of Extension Education, AAU, Jorhat suggested to organize an awareness programme on organic certification | 1.With reference to 'urban agriculture' and 'peri-urban agriculture' concept, a team was constituted including PC, KVK, Jorhat and scientists from a few departments of AAU to make the preliminary assessment of supply and demand gap and the potential areas of the district that could be included in the programme. Accordingly, some data has already been collected from Titabar and Dhekargarah development block. However, a lot more information is still needed before the actual project proposal could be developed.<br>2. As per the suggestion of the Hon'ble Vice Chancellor, AAU, good quality piglets of Hampshire breed are being made available from the pig villages of Allengmora and Ujani Majuli established under TSP Project of KVK, Jorhat. Till Dec,2015 a total of 1304 nos of piglets were sold from these pig villages to farmers of the district and other districts as well. In last two years, 55 nos of piglets were also sold to the farmers from the pig demonstration unit of KVK, Jorhat<br>3. The project proposal for goat farming at Kaliapani was submitted to AAU, authority in May 2014 and |
| 2. | Dr. H. C. Bhattacharya, Director of Extension Education, AAU, Jorhat. | | |
| 3 | Dr. G. N. Hazarika, Director of Research (Agri), AAU, Jorhat | | |
| 4 | Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor | | |
| 5 | Dr. M. Neog, Assoc. Director of Extension Education (T), AAU, Jorhat | | |
| 6 | Dr. R. K.Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat | | |
| 7 | Dr. Rupam Borgohain, Programme Coordinator, KVK, Jorhat | | |
| 8 | Dr. Utpala Goswami,Senior Extension Specialist, DoEE, AAU, Jorhat | | |
| 9 | Mrs. Deepali Swargiary Baruah, District Social Welfare Officer, Jorhat | | |
| 10 | Mr. Samir Ranjan Bordoloi, Programme Manager, Farm 2 food Foundation, Assam. | | |
| 11 | Dr. Ranjit Bordoloi, Representative of Dis Veterinary Officer, DVO,Office, Jorhat. | | |
| 12 | Sri Monidip Chutia, Divisional Soil Conservation Officer, Jorhat. | | |
| 13 | Mr. K. Vaiphei, DDM, NABARD, Jorhat | | |
| 14 | Mr. Sanjib Borah, Project Representative, Baghchung Block, Jorhat | | |
| 15 | Sri Utpal Doley, i/c Project Director, | | |

| | | | |
|---|---|---|---|
| | DRDA, Jorhat | process.<br>5.Suggested to arrange vocational training on cutting and tailoring in collaboration with NABARD, Jorhat. | was sanctioned in Dec, 2015. The villages and the potential beneficiaries have already been selected. Collection of kids are in progress. The distribution of kids shall be done immediately after the election process.<br>As for the fishery venture suggested by the Hon'ble Vice- Chancellor, KVK Jorhat has demonstrated and popularized carryover fish fingerling production technique and demonstrated 'Three tire Fish-pig-poultry rearing system' in the area |
| 16 | Mr. Bijoy Kr. Baruah, Principal, ETC, SIRD, Jorhat | | |
| 17 | Mrs. Gul Ayesha Morriam, SDAO (CC&TC), DAO, Jorhat | | |
| 18 | Sri Thaneswar Chutia, Advisor KASS, Balijonia, Jorhat | | |
| 19 | Mr. Tirtha Prasad Saikia, NEADS(NGO), Dhekiakhowa, Jorhat. | | |
| 20 | Mrs. Runu Gogoi, Progressive Farmer, Mybellia Gaon | | |
| 21 | Dr. Kartic Neog, Scientist, CMER &TI, Central Silk Board, Lahdoigarh | | |
| 22 | Mohd Ibrahim, Scientist-C, Rain Forest Research Institute, Jorhat. | | |
| 23 | Mrs. Nirala Kalita Hazarika, Farmer Representative, Kaliapani Chapori. | | |
| 24 | Mrs. Anita Gogoi, Farmer Representative, Bamaun Pukhuri, | | |
| 25 | Mr. Atul Missong, Farmer Representative, Neul Gaon, Allengmora, Jorhat | | |
| 26 | Mr. Biman Gogoi, Farmer Representative, Khanamukh, Gharpholia | | |
| 27 | Mr. Pranjit Rajkhowa, Progressive Farmer, Bhagamukh charingia | | |
| 28 | Mrs. Runu Gogoi, Progressive Farmer, Mybellia Gaon | | |

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

**Proceeding of 4thScientific Advisory Committee (SAC) Meeting of KrishiVigyanKendra, Jorhat, 2015-16**

**Date** : 28.03.2016

**Chairman:** Dr. K.M. Bujarbaruah, Hon'ble Vice- Chancellor, AAU, Jorhat

**Venue** : Conference Hall, Directorate of Research (Agri), AAU, Jorhat

**Rapporteurs :** 1. Mr. Sanjib Ranjan Borah, 2. Ms. Mousumi Phukon, 3. Ms. Ira Sarma

**Members Present**:

| Sl. No. | Name and Designation of members |
|---|---|
| 1. | Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman. |
| 2. | Dr. H. C. Bhattacharya, Director of Extension Education, AAU, Jorhat. |
| 3 | Dr. G. N. Hazarika, Director of Research (Agri), AAU, Jorhat |
| 4 | Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor |
| 5 | Dr. M. Neog, Assoc. Director of Extension Education (T), AAU, Jorhat |
| 6 | Dr. R. K.Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat |
| 7 | Dr. Rupam Borgohain, Programme Coordinator, KVK, Jorhat |
| 8 | Dr. Utpala Goswami,Senior Extension Specialist, DoEE, AAU, Jorhat |
| 9 | Mrs. Deepali Swargiary Baruah, District Social Welfare Officer, Jorhat |
| 10 | Mr. Samir Ranjan Bordoloi, Programme Maneger, Farm 2 food Foundation, Assam. |
| 11 | Dr. Ranjit Bordoloi, Representative of District Veterinary Officer, DVO,Office, Jorhat. |
| 12 | Sri Monidip Chutia, Divisional Soil Conservation Officer, Jorhat. |
| 13 | Mr. K. Vaiphei, DDM, NABARD, Jorhat |
| 14 | Mr. Sanjib Borah, Project Representative, Baghchung Block, Jorhat |
| 15 | Sri Utpal Doley, i/c Project Director, DRDA, Jorhat |
| 16 | Mr. Bijoy Kr. Baruah, Principal, ETC, SIRD, Jorhat |
| 17 | Mrs. Gul Ayesha Morriam, SDAO (CC&TC), District Agriculture Department, Jorhat |
| 18 | Sri Thaneswar Chutia, Advisor KASS, Balijonia, Jorhat |
| 19 | Mr. Tirtha Prasad Saikia, NEADS(NGO), Dhekiakhowa, Jorhat. |
| 20 | Mrs. Runu Gogoi, Progressive Farmer, Mybellia Gaon |
| 21 | Dr. Kartic Neog, Scientist, CMER &TI, Central Silk Board, Lahdoigarh |
| 22 | Mohd Ibrahim, Scientist-C, Rain Forest Research Institute, Jorhat. |
| 23 | Mrs. Nirala Kalita Hazarika, Farmer Representative, Kaliapani Chapori. |
| 24 | Mrs. Anita Gogoi, Farmer Representative, Bamaun Pukhuri, |
| 25 | Mr. Atul Missong, Farmer Representative, Neul Gaon, Allengmora, Jorhat |
| 26 | Mr. Biman Gogoi, Farmer Representative, Khanamukh, Gharpholia |

| | |
|---|---|
| 27 | Mr. Pranjit Rajkhowa, Progressive Farmer, Bhagamukh charingia |
| 28 | Mrs. Runu Gogoi, Progressive Farmer, Mybellia Gaon |

The SAC meeting of Krishi Vigyan Kendra, Jorhat for the year, 2015-16 was held at the Conference Hall, Directorate of Research (Agri), AAU, Jorhat on 28th March, 2016. At the very outset of the meeting, Dr. H.C. Bhattacharyya, Director of Extension Education, AAU, Jorhat welcomed all the dignitaries present followed by self-introduction of the members and felicitation of the Chairman and the farmer representatives. In the welcome address, Dr. H.C. Bhattacharyya, Director of Extension Education, AAU, Jorhat gave an overview on the importance of SAC meeting and highlighted the mandated activities of KVKs.

Mr. Atul Missong, a progressive farmer from Neolgaon, Allengmora offered his sincere gratitude for all the technological support from KVK, Jorhat. He expressed his feeling that the tribal farmers of the area are lagging far behind in the scientific production technologies and urged upon the house for arranging more trainings and awareness programmes more particularly in the farm machinery, agriculture and animal science sectors through KVK and concerned state Departments. He informed the house about the need for KVK's intervention in all the sectors for economic uplift of the tribal farming community.

Dr. R. Borgohain, Programme Coordinator, KVK, Jorhat highlighted the action taken report of the previous year and the action plan of KVK, Jorhat to be carried out during the year, 2016-17. Actions to most of the suggestions made by the house were taken by KVK, Jorhat. On the issue relating to submission of project proposal on peri-urban agriculture, which KVK, Jorhat could not submit on technical ground; the Hon'ble Vice-Chancellor Dr. K.M. Bujarbaruah informed the house that a mega project has already been submitted to Govt. of India on peri-urban agriculture which will be implemented in Guwahati and Jorhat in the first phase, subjected to release of funds. To make Jorhat self-sufficient in food grains, fruits & vegetables, dairy products, poultry and fishery, a survey should be conducted and actual requirement should be ascertained. The Hon'ble Vice-Chancellor also appraised the house that all the line departments should participate in implementing the project for fulfilling the aim and objectives of the project.

The Programme Coordinator, KVK, Jorhat informed the house regarding the sanction of the Project on Goat farming to be implemented in a village under Kaliapani Development Block. Hon'ble Vice-Chancellor suggested not to introduce "Sirohi" breed due to its less adaptability to our climate, rather suggested to go for cross breeding with "Beetal" buck. He advised to purchase at least 20 numbers of good quality "Beetal" bucks for the programme. The District Veterinary Officer, Jorhat informed the house about the initiation of the construction of demonstration unit for goat farming at Borhola, Titabar under State Department. The Director of Research(Agri) suggested KVK, Jorhat to go for artificial insemination programme in goat in collaboration with the State Department since they have the facility of cryocan, liquid nitrogen and straw. The Programme Coordinator, KVK, Jorhat informed the house that KVK, Jorhat has already been implementing artificial insemination programme in goat in collaboration with State Veterinary Department.

The Director of Extension Education, AAU, Jorhat in his speech emphasized on the development of commodity village. The locality suitable for a particular commodity should be developed as a specialized commodity village. Regarding the TSP programme, the Hon'ble Vice- Chancellor suggested to publish a book/final report covering the success stories of the farmers.

The Hon'ble Vice-Chancellor appraised the house on the importance of sustaining soil health for sustained productivity and also the scope of organic agriculture in the North East Region. On the issue on distribution of soil health card to the farmers, he opined that the aim of the programme should not be restricted to issuance of the soil health cards alone but actions are also needed to mitigate their soil health problem by supplying the need based inputs to ameliorate their soils. This would be possible only through creating awareness among the farming community. He also opined that such type of activities would be possible only with the convergence of all line departments of the district.

Mr. Sameer Ranjan Bordoloi, Programme Manager, Farm 2 Food Foundation, Jorhat pointed out the problems of contamination of ground water of Jorhat district with arsenic and cadmium. He suggested that utilization of river water will be a better option for irrigation and in this regard NABARD, soil conservation department and Dept. of Agril. Engg., AAU should work together for development of farmers' friendly irrigation technology. The Hon'ble Vice Chancellor, AAU, Jorhat suggested Programme Coordinator, KVK, Jorhat to look for provision for at least 60 farmers for high value crops. The representative from irrigation department pointed out that Allengmora area has a huge potential for drip irrigation. In this regard, the Chairman suggested the Director of Research (Agri) to organize a workshop on convergence building among all line department of the district in order to prepare a model to achieve the goal.

Dr. Ranjit Bordoloi, Representative for District Veterinary Officer, DVO, Office, Jorhat. informed the house that an 'Poultry egg village' is being planned at Chalihagaon, Rowriah in collaboration with NGOs and cooperative societies of Jorhat with 60 numbers of trained farmers. During the discussion, the Director of Extension Education again emphasized on creation of commodity villages. Supporting his views, the Director of Research (Agri) also stressed on the identification and development of clusters for specific commodity.

Programme Coordinator, KVK, Jorhat informed the house about the cultivation of newly introduced strawberry var. *Sweet Charlie* and the cultivation problems including the non- availability of planting material, acidic taste of the fruit. He also informed the house about the high cost of existing planting material for which tissue culture technique may be tried. Mrs.Gul Ayesha Morriam, SDAO (CC&TC), District Agriculture Department, Jorhat, suggested to apply lime for reclamation of the soil to correct the soil pH.

Programme Coordinator, KVK, Jorhat in his presentation highlighted the future action by KVK, Jorhat on promoting organic agriculture. The chairman opined that organic cultivation should include right from package of

practice to certification process of the products. He also informed that it will require at least 5 years for conversion of the inorganic area into organic following proper procedure. He suggested identifying the potential areas of the district for organic farming along with the selection of appropriate crop that would be beneficial for the farmers. Mr. Sameer Ranjan Bordoloi emphasized on the development of retail outlet for marketing the organic products.

The Chairman mentioned about PM's 'Make in India' programme and suggested to explore the specialty agricultural products of Jorhat district so that intense production and marketing avenue could be opened under the programme. Mr. Sameer Ranjan Bordoloi mentioned about the low protein content in pig meat in Assam which reduces the export potential of pig meat. He informed the house that to make the pig meat exportable, feed management of pig is very essential for producing protein rich meat. He also drew the attention of the house on the scope and importance of local herbs and suggested the scientific community to develop an organic package of practice for their cultivation. Director of Research (Agri) pointed out the potential use of sorghum as pig feed.

The Chairman informed that pulse is an another important crop that needs immediate intervention and suggested KVK, Jorhat to give more emphasis on identification of new pulse growing areas and cover more areas under this crop. He also informed the house that 2016 is the International Year of Pulses and Govt. of India is also giving more emphasis on pulse production.

Director of Extension Education suggested inclusion of duckery as an important component in poultry sector to develop duck village. He suggested to develop cluster of single village with single breed so that there is no mixing of breed.

Programme Coordinator, KVK, Jorhat informed the house that OFT programme on Milky mushroom was planned during the year 2016-17 and Director of Extension Education suggested testing its suitability for round the year cultivation.

Dr. K. Neog, CMERTI, CSB, Lahdoigarh informed the house that in the sericulture sector, Govt. of India has been giving emphasis on growing of *Alianthus grandis* and *Alianthus excelsa* as food plants for *eri* and *muga*. He promised to supply few seedlings of *Alianthus grandis* to KVK, Jorhat. He emphasized the research need on host specific bio-pesticide. He also informed that S3 & S6 are two selected plants of *Som* that should be propagated in mission mode.

Responding to a question on *Ipomoea* problem at farmer's field, Director of Research(agri) informed the house on the low cost production technology of carbon /biochar by burning *Ipomoea* that would not only help in controlling the weed from the field but also helps in biochar production.

Mr. Sameer Ranjan Bordoloi suggested creating a hub of planting material to cater the needs of the farmers. In response to suggestions given by Mr. Bordoloi on planting material generation, Director of Extension Education advised KVK, Jorhat to take the help of Horticulture department, AAU, Jorhat for the purpose of pure planting material generation.

Mrs. Nirala Kalita, progressive farm woman, Kaliapani conveyed her gratefulness to KVK, Jorhat for the help and guidance in various aspects. She requested KVK, Jorhat to arrange training for the woman SHGs on weaving, cutting and tailoring. She also suggested that papaya and Assam lemon may be a profitable crop in Kaliapani area in addition to goat farming for the uplift of the farming community of the area. Responding to Mrs. Kalita, Director of Extension Education requested NABARD to take up that area as weaving cluster on Jacard Loam and also extend help in formation of FPO (Farmers producer organization). Mr Vaiphei, DDM, NABARD briefly highlighted their activities and informed that NABARD can collaborate in developing farmers club, FPO and JLG. Director of Extension Education suggested to arrange a vocational training on cutting and tailoring.

Mr. Thaneswar Chutia, Advisor, KAAS, Balijania, Jorhat expressed his gratitude for the guidance and help extended by A.A.U and KVKs for the benefit of farmers. Mr. Biman Gogoi, progressive farmer, Khonamukh raised the problem of selling the organic produce as there is no organized market for organic products. In this regard, Director of Extension Education commented that organic certification is now easily accessible for the farmers as HRS, Kahikuchi can help the farmers in group certification of organic produce. He also suggested to organize an awareness programme on organic certification process.

The Associate Directors of Extension Education, training and publication congratulated KVK, Jorhat for the good work. Dr. M. Neog, Associate Director of Extension Education (Training) informed the house that a project worth Rs 2.4 crore will be mobilized for creating a pulse seed hub. Dr. Neog inquired from NABARD whether certificate course of 1-6 month duration can be funded by NABARD. The trainees from these trainings will be master trainers for the other farmers.

The meeting was ended with the vote of thanks by Ms. Mousumi Phukon, KVK, Jorhat.

## 2. DETAILS OF DISTRICT

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

| Sl. No | Farming system/enterprises |
|---|---|
| 1. | Agri – Horti – Animal husbandry – Fishery |
| 2. | Agri – Horti – Animal husbandry |
| 3. | Agri – Horti – Fishery |
| 4 | Agri – Horti |

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

| Sl. No | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1 | Upper Brahmaputra Valley Zone | The Upper Brahmaputra Valley Agro-climatic Zone is characterized by the existence of hills, high land, plain land and char areas. Soils of this zone consist of mostly recent immature alluvium in char areas to mature ultisol in the piedmont, high land and hilly areas in the southern part. These soils fall under Entisol order. Annual rainfall varies from 1,200 mm to 2,400 mm. The temperature of the zone varies from a maximum of 37°C to a minimum of 7°C on an average. The zone, however, shows considerable variation in physiography, climate, soil, flood proneness, socioeconomic condition and cropping patters. Based on these parameters, the zone is further classified into eight Agro-Ecological Situations. Out of them six exist in the district and out of them two are related with forest and tea growing areas. |

2.3 Soil type/s

| Sl. No | Soil type | Characteristics | Area in ha |
|---|---|---|---|
| 1. | Sandy | Contains sand separates 70% or more of the material by weight | 15169 |
| 2. | Sandy loam | Exhibits property in between sandy and loam and contains more sand separates than loam | 89070 |
| 3. | Loam | Contains a mixture of sand, silt and clay particles which exhibit light and heavy properties in about equal proportion | 12491 |
| 4. | Silty clay loam | Contains more silt and clay than loam | 23545 |
| 5. | Clay | Contains atleast 35% of clay separates and in most cases not less than 40% | 12626 |

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

| **Sl. No.** | **Crop** | **Area (ha)** | **Production (Qtl)** | **Productivity (Qtl /ha)** |
|---|---|---|---|---|
| 1. | Autumn paddy | 6450.00 | 161300.00 | 25.00 |
| 2. | Winter paddy | 83100.00 | 2492900.00 | 30.00 |
| 3. | Summer paddy | 2710.00 | 56600.00 | 20.94 |
| 4. | Wheat | 520.00 | 600.00 | 12.00 |
| 5. | Black gram | 2980.00 | 17900.00 | 6.00 |
| 6. | Green gram | 2070.00 | 12400.00 | 6.00 |
| 7. | Pea | 1050.00 | 6200.00 | 5.94 |
| 8. | Lentil | 520.00 | 2700.00 | 5.20 |
| 9. | Mustard | 9390.00 | 80000.00 | 8.50 |
| 10. | Sesame | 220.00 | 1100.00 | 5.20 |
| 11. | Potato | 3110.00 | 298000.00 | 96.00 |
| 12. | Sugarcane | 500.00 | 16700.00 | 33.75 |
| 13. | Ridge gourd | 270.00 | 5000.00 | 18.20 |
| 14. | Pumpkin | 610.00 | 30200.00 | 50.00 |
| 15. | Kharif vegetables | 3600.00 | 310300.00 | 86.20 |
| 16. | Rabi vegetables | 6500.00 | 429900.00 | 66.16 |
| 17. | Garlic | 890.00 | 53400.00 | 60.00 |
| 18. | Ginger | 150.00 | 7800.00 | 52.00 |
| 19. | Areca nut | 3090.00 | 593200.00 | 192.00 |
| 20. | Banana | 3400.00 | 519400.00 | 153.00 |
| 21. | Assam Lemon | 920.00 | 106200.00 | 115.40 |

2.5. Weather data

| Month | Rainfall (mm) | Temperature $^0$ C | | Relative Humidity (%) |
|---|---|---|---|---|
| | | Minimum | Maximum | |
| April'15 | 293.3 | 19.0 | 27.4 | 83 |
| May'15 | 298.0 | 22.5 | 30.1 | 84.5 |
| June'15 | 335.8 | 24.4 | 31.6 | 87 |
| July'15 | 344.8 | 25.3 | 34.0 | 81 |
| August'15 | 307.3 | 24.9 | 32.0 | 86.5 |
| September'15 | 257.2 | 24.6 | 32.3 | 84.5 |
| October'15 | 46.8 | 21.0 | 31.1 | 80.5 |
| November'15 | 10.2 | 15.1 | 27.5 | 82 |
| December'15 | 35.7 | 10.9 | 22.9 | 84.5 |
| January'16 | 35.2 | 9.9 | 22.3 | 85 |
| February'16 | 6.6 | 13.3 | 24.2 | 81.5 |
| March'16 | 93.6 | 16.3 | 27.3 | 77.5 |

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

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred* | 13126 | 57.70 million lit (Milk) | 236 lit/ animal/ lactation (Average) |
| *Indigenous* | 474886 | | |
| **Buffalo** | 29845 | 0.80 Million lit (Milk) | 180 lt/lactation/period of average 120 days |
| **Sheep** | | | |
| Crossbred | - | - | - |
| *Indigenous* | 330 | - | - |
| **Goats** | 170793 | 0.425 million kg (Meat) | 8 kg/goat |
| **Pigs** | | | |
| *Crossbred* | 85625 | 0.25 million kg (Pork) | 55 kg./pig (Average) |
| *Indigenous* | 202797 | | |
| **Rabbits** | - | - | - |
| **Poultry** | | | |
| Hens | | | |
| *Desi* | 444062 | 51.0 million nos | 45 nos/ bird/yr (average) |
| *Improved* | 12275 | | 150 nos/ bird/ yr(average) |
| Ducks | 190000 | | 45 nos/ bird/yr (average) |
| Turkey and others | | | |

**Source: C-DAP Report 2009-10**

| Category | Area | Production | Productivity |
|---|---|---|---|
| Fish | | | |
| *Marine* | | | |
| *Inland* | 43553.49 ha | 10468.68 t | 0.24 t/ha |
| Prawn | | | |
| Scampi | | | |
| Shrimp | | | |

2.6 Details of Operational area / Villages (2015-16)

| Sl. No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified thrust area |
|---|---|---|---|---|---|---|
| 1 | Teok | Kaliapani | Boloma Moran Gaon | Vegetables | 1. Unawareness about scientific crop production<br>2. Nematode infestation in cucurbitaceous vegetables<br>3. Low participation of women in agriculture | 1. ICM<br>2. Processing and value addition<br>3. Entrepreneurship development<br>4. Women empowerment<br>5. IPM |
| 2 | Kakojan | Sipahikhola | Fesual - II | Vegetable, Dairy, rice, fishery, duckery | 1. Lack of scientific knowledge in crop production especially for vegetables<br>2. Lack of organized milk market<br>3. Lack of knowledge about management of group<br>4. Lack of knowledge and skill on scientific fish rearing | 1. ICM and IPM on vegetables<br>2. Group marketing<br>3. Integrated livestock production and management<br>4. Group mobilization<br>5. Composite fish farming |
| 3 | Garmur | Kamalabari, Majuli | Mahkinagaon, Borbari gaon, Bhakat Chapori | Toria, vegetables, sugarcane, rice | 1. Lack of HYV of rapeseed<br>2. Lack of awareness about water management<br>3. Unorganized market<br>4. Infestation of white grub in vegetable crops<br>5. Lack of knowledge about scientific cultivation of kharif pulse and oilseed | 1. Introduction of newly released variety<br>2. Integrated crop management<br>3. IPM for vegetables<br>3. Marketing |
| 4 | Lahing | Selenghat | Siram Missing gaon | Rice, piggery, poultry | 1. Low yield of local rice variety<br>2. Lack of knowledge about cultivation practices of HYV Sali rice.<br>3. Problem of water stagnation during planting period<br>3. Poor growth of pig<br>4 Incidence of diseases of poultry and pig<br>5. Lack of knowledge of farm women about livestock management | 1. Introduction of HYV of sali rice<br>2. ICM and IPM<br>3 Integrated livestock management<br>4. Integrated poultry management<br>5. Women empowerment |
| 5 | Teok | Sipahikhola | Bailunggaon | Vegetables, rice, tea, poultry, fruits | 1. Lack of knowledge on management practices of vegetables<br>2. Low production of fruits, especially banana<br>3. Low performance of desi poultry birds | 1. ICM and IPM of fruits and vegetables<br>2. Integrated poultry farming<br>3. Mobilization of CIG |
| 6 | Lahing | Selenghat | Changmaigaon, Adarsha gaon | Tea, goatery and poultry | 1. Non availability of scented Sali HYV<br>2. Low production of local scented varieties | 1. Introduction of scented HYV of Sali rice |
| 7 | Lahing | Selenghat | Haloapathar | Rice, rabi Vegetables, potato | 1. Lack of knowledge about scientific cultivation of high value vegetables<br>2. Non availability of quality seeds and planting material | 1. ICM and IPM for high value vegetables<br>2. Group mobilization<br>3. Entrepreneurship development |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | Simaluguri | Kaliapani | Dhemajigaon | Rice, Banana, poultry | 1. Lack of commercial attitude towards banana cultivation<br>2. Non availability of quality planting material<br>3. Low yield of fruit crops<br>4. High mortality of poultry | 1. ICM of fruit crops<br>2. Production of quality planting material of banana<br>3. Group mobilization<br>4. Integrated disease management of poultry |
| 9 | Teok | Kaliapani | Kaowimari | Rice, fishery, vegetable, livestock | 1. Monocropping<br>2. Low yield of available rice varieties<br>3. Lack of scientific knowledge about natural fish farming | 1. Group mobilization<br>2. Wasteland utilization through boro rice cultivation and community fish farming |
| 10 | Lahing | Selenghat | Majkuri | Sali rice, vegetable, livestock | 1. High incidence of pests and diseases of vegetables<br>2. Lack of knowledge on judicious application of pesticides<br>3. Lack of knowledge on scientific cultivation of high value vegetables | 1. ICM and IPM of vegetables<br>2. Production of quality paddy seeds<br>3. Popularization of high value vegetables |
| 11 | Teok | Kaliapani | Narrang pachanigaon | Banana | 1. Low productivity, Water scarcity during winter | 1. Introduction of integrated crop management |
| 12 | Simaluguri | Kaliapani | Kaliapani gohaingaon | Banana | 1. Low productivity, Water scarcity during winter | 1. Introduction of integrated crop management |
| 13 | Simaluguri | Kaliapani | Amtol | Black pepper | 1. Lack of quality planting material<br>2. Low yield | 1. Production of quality planting material |
| 14 | Bebejia | Titabar | Bor era gaon, Mejenga Grant 1 & 2, Dakhin pat gaon, Silikha Sanatan gaon, Madhapur, Tipumia, Rajabari | Rice | 1. Occurrence of severe draught | 1. Water management of rice<br>2. Rain water harvesting |
| 15 | Garumara | Dhekergarah | Ganakbari | Vegetables, rice | 1. Lack of knowledge on water management practices | 1. Water management |
| 16 | Meleng | Sipahikhola | Sudamoa gaon | Rice, vegetables | 1. Low yield of rice<br>2. Under-utilization of existing fallow lands | 1. Crop intensification<br>2. ICM and IPM of rice<br>3. Group mobilization |

| | | | | | | |
|---|---|---|---|---|---|---|
| 17 | Mariani | | Kheremiagaon, Danigaon, Bongaon, Bahonigaon, Newsonowal missingaon | Winter and kharif vegegtable, Potato, rapeseed, black peper, banana, goatery, duckery, pine apple | 1. Low productivity of traditionl vaiety.<br>2. Unawareness of scientific production technology<br>3. Unscientific horticultural pocket.<br>4. Under utilization of natural resources. | 1. Organic vegetable and fruit production.<br>2. Entrepreneurship development for rural youths and farm women.<br>3. Integrated Nutrient Management.<br>4. Increasing crop productivity through scientific management<br>5. Introduction of improved bred of pig and poultry suitable for backyard rearing.<br>6. IPDM in crop and vegetables. |
| 18 | Kamalabari | Majuli Development Block | Mahkina gaon**,** Bhakat chapari, Danigaon, Borbarigaon, Gormur, Kamalabari, Gormur, Aauniati | Sali rice, rapeseed & mustard, rabi vegetables, potato, garlic, apiary piggery, fish production | 1. Low crop productivity<br>2. Unawareness of scientific production technology<br>3. Pest and disease incidence especially in vegetables<br>4. Injudicious use of pesticides<br>5. Traditional low productive pig, duck poultry production.<br>6. Lack of management of natural depression for fish production | 1. Integrated farming systems<br>2. Entrepreneurship development for rural youths and farm women.<br>3. Integrated Nutrient Management.<br>4. Increasing crop productivity through scientific management<br>5. Integrated livestock production and management<br>6. Introduction improved bred of pig, duck and poultry suitable for backyard rearing.<br>7. IPDM in crop and vegetables. |
| 19 | Fesual | Central Devevelopment Block, Chipahikhola | Fesual No-II goan, Fesual No-I gaon, Holongpara Gohaingaon, Karigaon, Jotokia, Hingipulia | Potato, kharif and rabi vegetables, ginger, banana, Assam lemon, fishery, Goatery, dairy Mushroom | 1. Mono cropping<br>2. Unorganised marketing of Milk, Kharif and Winte vegetable<br>3. Water scarcity during winter season<br>4. Lack of awareness about child care and nutrition<br>5. Pest and disease incidence<br>6. Injudicious use of chemical pesticides | 1. Rain water harvesting<br>2. Increasing crop productivity through scientific management<br>3. Orgnanised marketing under group approach.<br>4. Integrated pest and disease management<br>5. Entrepreneurship development for rural youths<br>6. Integrated farming systems<br>7. Women empowerment |
| 20 | Ellengmor a | Dhekorgora Development Block | Namdeori, Upardeori, Bahfola, Koriamari,Neolgaon ,Loliti, Kolia, Dhudang, Malowkhat | Kharif & Rabi Vegetables, Piggery, Poultry | 1. Low yielding variety<br>2. Unawareness of scientific production technology<br>3. Pest and disease incidence especially in vegetables<br>4. Injudicious use of pesticides<br>5. Traditional low productive pig, duck poultry production.<br>6. Lack of management of natural depression for fish production | 1. Integrated pest and disease management on vegetables<br>2. Group marketing<br>3. Integrated livestock production and management<br>4. Integrated farming systems<br>5. Introduction improved bred of pig, duck and poultry suitable for backyard rearing.<br>6. Integrated Nutrient Management<br>7. Production of quality piglets. |

## 3. TECHNICAL ACHIEVEMENTS

### 3. A. Details of target and achievements of mandatory activities by KVK during 2015-16

| Discipline | OFT (Technology Assessment and Refinement) | | | | FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises) | | | |
|---|---|---|---|---|---|---|---|---|
| | Number of OFTs | | Number of Farmers | | Number of FLDs | | Number of Farmers | |
| | Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| Agronomy | 04 | 09 | 20 | 25 | 07 | 08 | 26 | 59 |
| Soil Science | 06 | 06 | 29 | 29 | 02 | 02 | 05 | 05 |
| Horticulture | 03 | 03 | 09 | 09 | 04 | 04 | 07 | 07 |
| Plant Protection | 01 | 01 | 05 | 05 | 01 | 01 | 05 | 05 |
| Fishery | 03 | 03 | 09 | 09 | 03 | 03 | 09 | 09 |
| Animal Husbandry | 01 | 01 | 02 | 02 | 01 | 01 | 20 | 20 |
| Home Science | 03 | 03 | 09 | 09 | 03 | 03 | 09 | 09 |
| **Total** | **22** | **26** | **83** | **88** | **21** | **22** | **81** | **114** |

Note: Target set during last Action Plan Workshop

| 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 | Achievement | Targets | Achievement |
| Farmers | 41 | 41 | 1230 | 1230 | Referred to section 3.4. | | | |
| Rural youth | 8 | 8 | 252 | 252 | | | | |
| Extn. Functionaries | 3 | 3 | 54 | 54 | | | | |
| Total | 52 | 52 | 1536 | 1536 | | | | |
| Seed Production (ton.) | | | | | Planting material (Nos. in lakh) | | | |
| 5 | | | | | 6 | | | |
| Target | | Achievement | | | Target | | Achievement | |
| Referred to section 3.5A | | | | | Referred to section 3.5B | | | |

Note: Target set during last Action Plan Workshop

**3. B. Abstract of interventions undertaken during 2015-16**

| Sl. No | Thrust area | Crop/ Enterprise | Identified problems | Interventions | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel if any | Extension activities | Supply of seeds, planting materials etc. |
| 1 | Varietal Evaluation | Paddy | Most popular variety Ranjit & Bahadur are susceptible to submergence | Assessment of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 in the submerged areas of Jorhat District | - | - | - | Method demonstration | Seeds, Fertilizers, Pesticides |
| 2 | | | Lack of farmers accepted HY paddy varieties for SDW condition | Assessment of paddy var. LPR 1130 & LPR 1103 under semi deep water condition of Jorhat district | - | - | - | Method demonstration | Paddy seeds, fertilizers, pesticides |
| 3 | | | 1.Declining labour availability and its rapidly rising cost<br>2.Threats from receding water table<br>3.Poor availability of quality seed<br>Weed problem | Assessment of paddy variety "Ranjit" under direct seed condition | - | - | - | Farmers scientist interaction | Paddy seeds, fertilizers, pesticides |
| 4 | | | Absence of SDW long grained aromatic rice variety | Performance of Semi deep water aromatic rice variety KDML 105 (Padumoni) in Jorhat district | - | - | - | Method demonstration | Paddy seeds, fertilizers, pesticides |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5 | | | 1.Low yield of existing farmers medium duration (130-135d) Sali varieties for double cropped areas 2.Low cropping intensity | Rice-toria double cropping with medium duration rice variety TTB 404 and toria variety TS-38 | - | - | - | Method demonstration | Paddy seeds, fertilizers, pesticides |
| 6 | Varietal Evaluation | Lentil | i. Low cropping intensity ii) Poor performance of non descriptive /local variety | Performance of lentil var. HUL 57 under rice utera conditions of Jorhat District | | - | - | Farmers scientist interaction | Seeds, fertilizers, pesticides |
| 7 | Varietal Evaluation | Sali paddy | | - | Cultivation of *sali* paddy variety TTB-303-2-23 and TTB-303-1-42 in waterlogged situation of Jorhat district | Improve production technology of Sali paddy | - | Method demonstration | Seeds, fertilizers, pesticides |
| 8 | Varietal Evaluation | Paddy | | | Demonstration of medium duration paddy variety *Mulagabharu* in paddy-rabi vegetables double cropping sequence | Improve production technology of paddy | - | Method demonstration, Farmers scientist interaction | Seeds, fertilizers, pesticides |
| 9. | | Sugarcane | - | - | Demonstration on sugarcane HY varieties and farmers participatory variety selection | - | - | Method demonstration | Planting material, fertilizers, pesticides |
| 10 | Integrated Nutrient Management | Paddy | High spikelet sterility in Sali rice under delayed planting situation | Testing efficacy of boron foliar spray in reduction of spikelet sterility in *Sali* rice | - | - | - | - | Seeds, fertilizers, pesticides |
| 11 | Integrated Nutrient Management | Paddy | - | - | Integrated Nutrient Management in *Sali* Rice | Integrated Nutrient Management in *Sali* Rice | - | Method demonstration, Farmers scientist interaction | Seeds, fertilizers, pesticides |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12 | Integrated Nutrient Management | Paddy | - | - | Efficacy of Zinc in Rice Productivity | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 13 | Integrated Nutrient Management | Blackgram | Soil health deterioration due to continuous use of only inorganic fertilizer | Assessment of efficacy of Bio-fertilizer in Kharif Black gram productivity | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 14 | Organic Faring | Paddy | 1.Indiscriminate use of chemical fertilizer and plant protection chemicals<br>2.Absence of organic package for paddy | OFT on Organic Rice | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 15 | Weed Management | Blackgram/ Greem gram | 1.Yield loss due to weed<br>2. High cost of manual weeding | Integrated Weed Management in summer black gram & green gram | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 16 | | Lentil | Low cropping intensity<br>ii) Poor performance of non descriptive /local variety | Weed Management in Lentil | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 17 | Integrated Nutrient Management | Lentil | To reduce loss of N from applied fertilizer and supply of N at critical stage of crop growth.<br>2. Lentil is not cultivated as a double cropping sequence crop in the district | Foliar Nutrition Supplementation in Lentil | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 18 | Integrated Crop Management | Maize | | | ICM in maize | - | - | Method demonstration | Seeds, fertilizers, pesticides |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 19 | | Lentil | - | - | Integrated crop management of lentil | Improve production technology of Pulses | - | Method demonstration | Seeds, fertilizers, pesticides |
| 20 | | Lentil | - | -- | Demonstration on improved production technology of lentil *under* DAC- ICARDA - ICAR collaborative project *under NFSM – PULSE (*KVK, Kamrup & KVK, Jorhat) | Improve production technology of Pulses | - | Method demonstration | Seeds, fertilizers, pesticides |
| 21 | | Potato | - | - | ICM of potato with farmers participatory mode | | | Method demonstration | Seeds, fertilizers, pesticides |
| 22 | | Green fodder | | | Year round green fodder production (crop- seteria/hybrid napier/ congo signal) | | | Method demonstration | Seeds, fertilizers, pesticides |
| 23 | Integrated Nutrient Management | Lathyrus | Non adoption of integrated nutrient management practices in Lathyrus and lack of awareness about low BOAA containing Lathyrus variety | INM in Lathyrus under Rice Utera condition (Lathyrus Variety: *Ratan*) | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 24 | Integrated Crop Management | Toria | Low availability of quality seed | Assessment of production performance of toria under canopy management | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |
| 25 | Integrated Nutrient Management | Toria | Non availability of precise site specific fertilizer recommendation in Toria | Soil Test crop response correlation studies (STCR-IPNS) on crop Toria var. TS-38 & JT-90-1 | - | - | - | Method demonstration | Seeds, fertilizers, pesticides |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 26 | Varietal Evaluation | Dolichos | Lack of high yielding determinate(dwarf) var of Dolichos | Assessment of dwarf dolichos var. IIHR-Sel-1 | - | - | - | Method demonstration | Seeds, fertilizers |
| 27 | Weed Management | Brinjal | i. High cost of production due to manual weeding<br>ii. Dearth of Agricultural labourers | Weed management in Brinjal | - | - | - | Method demonstration | Seeds, fertilizer, herbicide, pesticide |
| 28 | Organic Faring | Okra | Indiscriminate use of chemical fertilizers & pesticides | Testing of Organic cultivation practice of early summer Okra | - | - | - | Method demonstration | Seeds, biofertilizer, bio pesticide |
| 29 | | King chilli | Indiscriminate use of chemical fertilizers & pesticides | Assessment of organic bhut jalakia cultivation package | | | | Method demonstration | Seeds, biofertilizer, bio pesticide |
| 30 | Integrated Pest Management | Tomato | Heavy incidence of fruit borer in Tomato in late planting | Integrated Pest Management of Tomato fruit borer | - | Integrated pest and disease management of rabi vegetables | - | Method demonstration | Tomato seeds, Neem cake, Pheromone traps, trichocard, Marrigold cuttings |
| 31 | Varietal evaluation | Water melon | | | Demonstration on cultivation of watermelon var. Sugar Baby | - | - | Method demonstration | Seeds, fertilizer, pesticides |
| 32 | Tissue culture | Banana | - | - | Demonstration on Cultivation of tissue culture banana | Production technology of tissue culture banana | - | Method demonstration | Planting material, fertilizers, pesticides |
| 33 | Production management | Tuberose | - | - | Year round quality flower production of tuberose by using black plastic mulch | - | - | Method demonstration | Planting material, fertilizers, pesticides |
| 34 | Income generating enterprises | Mushroom | - | - | Cultivation of Mushroom var. *Oyster* | Scientific Mushroom cultivation for self employment | | Training, Method demonstration, Field day | Mushroom spawn, Poly.p. bag, Plastic rope |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | Feed Management | Indian major carp and Exotic carp | Higher price and unavailability of conventional feed ingredients i.e. Rice Bran and Mustered Oil Cake | Assessment of performance of commercial pellet feed in Indian major carp Culture | - | - | - | Method demonstration | Commercial Fish Feed, Lime, Fish Fingerlings |
| 36 | | | | Assessment of carp productivity with supplementary Azolla nutrition | - | - | - | Method demonstration | Fish Feed i.e. Rice Bran and Oil Cake, Lime, Fish fingerlings |
| 37 | Production Management | Bhangan | High demand of *Bhangan*, less availability of the fish species in locality | Assessment of production performance of multiple harvesting carp culture practice with Bhangan | - | Carp culture practices using multiple stocking and multiple harvesting of *Bhangan* | - | Training, Method demonstration | Supply og Bhangan seeds, Lime, Fish Feed |
| 38 | Composite Fish Culture | Indian Major Carp and Exotic carp | Lower production of carps | - | Species Combination and ratio in Composite Fish Culture | Species combination ratio in composite fish culture | - | Field Day on Species Combination and ratio in Composite Fish Culture | Fish Fingerlings, Fish Feed, Lime. |
| 39 | Pond management | Indian Major Carp and Exotic carp | Less availability of carried over fish seed of Indian Major Carps and Exotic Carps | - | Backyard nursery pond management for production of stunted Fingerlings | 1.Carp Fry and Fingerling rearing<br>2. Monoculture of Magur and its breeding techniques | - | Field Day on Backyard nursery pond management for production of stunted Fingerlings | Fish Seeds, Fish Feed, Lime, Bleaching powder |
| 40 | Integrated farming | Indian Major Carp and Exotic carp with Duck | Lower productivity of fish, less availability of Fish Feed | - | Integrated Duck- Fish Farming | Integrated fish farming, fish heath problems and their control measures | - | Field Day on Integrated Duck- Fish Farming system | Ducklings, Fish Fingerlings, Limes |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 41 | Breed Evaluation | hybrid layer bird (Breed-BV-300) | Lack of low cost cage rearing system in hybrid layer, Poor production potential of indigenous birds | Testing low cost cage rearing system of hybrid layer bird (Breed- BV-300) | - | - | - | Training | Chicks, feed |
| 42 | Breed Evaluation | Kalinga brow | - | - | Demonstration of Productive Performance of Kalinga brown laying birds | Importance of Backyard poultry | - | Awareness, Farmers scientist interaction | Chicks, feed |
| 43 | Breed Evaluation | Khaki Campbell | - | - | Demonstration of Productive Performance of Khaki Campbell duck | - | - | Awareness, Farmers scientist interaction | Ducklings, feed |
| 44 | Value addition | Solar Dryer | Drying is weather dependent with low efficiency<br>Wastage of vegetables | Performance assessment of solar dryer for processing perishable fruits and vegetables | - | - | - | Training, Method demonstration | Solar drier, vegetables |
| 45 | Value addition | Natural dye | Excessive use of synthetic color | Addition of natural Food colorants in traditional snacks and sweets to enhance consumers preference and marketability | - | - | - | Training, Method demonstration | Colour, sweets. |
| 46 | Value addition | Jackfruit | Unavailability of processing methods | - | Demonstration on value added product preparation from jackfruit | Preperation og value added products | - | Training, Method demonstration | Jackfruit, preservatives |
| 47 | Value addition | Fruits | - | - | fruits for fruit bar preparation | Preperation og value added products | - | Training, Method demonstration | Fruits, preservatives |
| 48 | Value addition | Guava | - | - | Production of RTS Guava juice | Preperation og value added products | - | Training, Method demonstration | Fruits, preservatives |
| 49 | Food Preservation | vegetables | Lack of practices for preservation of seasonal vegetables | Assessment of fermentation based low cost vegetable preservation technique | - | - | - | Training, Method demonstration | vegetables, preservatives |

**3.1 Achievements on technologies assessed and refined during 2015-16**

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 crops | Tuber Crops | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| Varietal Evaluation | 05 | - | 01 | | 01 | | | | | 07 |
| Seed / Plant production | | | | | | | | | | |
| Weed Management | | | 03 | | 01 | | | | | 04 |
| Integrated Crop Management | | 01 | | | | | | | | 01 |
| Integrated Nutrient Management | 01 | | 02 | | | | | | | 03 |
| Integrated Farming System | | | | | | | | | | |
| Mushroom cultivation | | | | | | | | | | |
| Drudgery reduction | | | | | | | | | | |
| Farm machineries | | | | | | | | | | |
| Value addition | | | | 01 | 01 | | | | | 02 |
| Integrated Pest Management | | | | | 01 | | | | | 01 |
| Integrated Disease Management | | | | | | | | | | |
| Organic Farming | 01 | | | | 01 | | | | | 02 |
| Food Preservation | | | | | 01 | | | | | 01 |
| **TOTAL** | **07** | **01** | **06** | **01** | **06** | | | | | **21** |

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Integrated Crop Management | - | 01 | - | - | - | - | - | - | - | 01 |
| **TOTAL** | **-** | **01** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **01** |

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

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

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitary | Fisheries | TOTAL |
|---|---|---|---|---|---|---|---|---|
| Evaluation of Breeds | - | 01 | - | - | - | - | - | **01** |
| Nutrition Management | - | - | - | - | - | - | 02 | **02** |
| Production and Management | - | - | - | - | - | - | 01 | **01** |
| **TOTAL** | **-** | **01** | **-** | **-** | **-** | **-** | **03** | **04** |

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

**A.5. Results of On Farm Testing**

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Assessment of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 in the submerged areas of Jorhat District | Most popular variety Ranjit & Bahadur are susceptible to submergence. | Submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 | Paddy | 01 | Referred to the table below | Positive response towards the technology. | As theses varieties are assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation | Referred to the table below |

**Variety :** Ranjit Sub-1, Bahadur Sub 1 , Swarna Sub 1 (Check)
**Location :** 01 (Kaliapani) **Area:** 0.13 ha
**Date of transplanting:** 13.07.15
**Date of Harvesting :** 17.11.15
**Land situation :** Lowland , flood prone
**Flood stress:** Recurring flood from early July – early sept. ( 2 flashes**)**

| Parameters | Ranjit Sub-1 | Bahadur Sub 1 | Check (Swarna Sub 1) |
|---|---|---|---|
| Plant ht (cm) | 105.7 | 102.45 | 92.47 |
| Effective tiller no. | 12.85 | 11.87 | 11.41 |
| Duration (days) | 152 | 153 | 140 |
| Pest & Disease | Negligible | Negligible | Negligible |
| Yield (t/ha) | 5.32 | 5.17 | 4.67 |
| Gross cost (Rs/ha) | 27100 | 27100 | 27100 |
| Gross return Rs/ha) | 71820 | 69795 | 63045 |
| Net return (Rs/ha) | 44720 | 42695 | 35945 |
| B.C Ratio | 2.65 | 2.57 | 2.32 |

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>2</td><td>Assessment of paddy var. LPR 1130 & LPR 1103 under semi deep water condition of Jorhat district</td><td>Lack of farmers accepted HY paddy varieties for SDW condition</td><td>Sali paddy var. LPR 1130 & LPR 1103 under semi deep water condition</td><td>Paddy</td><td>01</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Variety: LPR 1130, LPR 1103 ,<br>
Check : Ranjit<br>
Location : 01 (Khanamukh)<br>
Area: 0.13 ha<br>
Date of transplanting: 19.07.15<br>
Date of Harvesting : 21.11.15<br>
Land situation : Lowland , flood prone<br>
Flood stress: Recurring flood from late June- early Sept ( 3 flashes)
<table>
<tr><th>Parameters</th><th>LPR 1130</th><th>LPR 1103</th><th>Check (Ranjit)</th></tr>
<tr><td>Plant ht (cm)</td><td>103.7</td><td>102.45</td><td rowspan="9">Total damage</td></tr>
<tr><td>Effective tiller no.</td><td>11.23</td><td>10.87</td></tr>
<tr><td>Duration (days)</td><td>152</td><td>155</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>4.17</td><td>4.05</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>23760</td><td>23760</td></tr>
<tr><td>Gross return Rs/ha)</td><td>56295</td><td>54675</td></tr>
<tr><td>Net return (Rs/ha)</td><td>32535</td><td>30915</td></tr>
<tr><td>B.C Ratio</td><td>2.37</td><td>2.30</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>3</td><td>Assessment of paddy variety “Ranjit” under direct seed condition</td><td>1.Declining labour availability and its rapidly rising cost<br>2,Threats from receding water table<br>3.Poor availability of quality seed<br>Weed problem</td><td>. Referred to the table below</td><td>Paddy</td><td>03</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
<table>
<tr><td>Technology Assessed :<br>Direct sowing followed by pre emergence application of Pendimethalin (Stomp) @ 750-1000 g a.i./ha applied within 2 days of sowing. Post-emergence application of 2,4-D @ 500 a.i / ha at 15-25 DAS<br>Source : CCSHAU, Haryana & PAU, Punjab</td><td>Variety : Ranjit<br>Location : 03 (Kakojan Maj gaon, Alengmora (2))<br>Area: 0.13 ha/location<br>Date of Sowing : 03.06.15, 05.06.15<br>Date of Harvesting : 22.11.15, 27.11.16<br>Land situation : Medium land</td></tr>
</table>
<table>
<tr><th>Parameters</th><th>DSR</th><th>Check (PTR)</th></tr>
<tr><td>Plant ht (cm)</td><td>99.47</td><td>105.7</td></tr>
<tr><td>Effective tiller no. / $m^2$</td><td>307.42</td><td>285.25</td></tr>
<tr><td>Duration (days)</td><td>155</td><td>152</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>5.12</td><td>5.32</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>24100</td><td>27100</td></tr>
<tr><td>Gross return Rs/ha)</td><td>69120</td><td>71820</td></tr>
<tr><td>Net return (Rs/ha)</td><td>45020</td><td>44720</td></tr>
<tr><td>B.C Ratio</td><td>2.86</td><td>2.65</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>4</td><td>Performance of Semi deep water aromatic rice variety KDML 105 (Padumoni) in Jorhat district</td><td>Absence of SDW long grained aromatic rice variety</td><td>SDW aromatic rice variety KDML-105</td><td>Paddy</td><td>3</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
<table>
<tr><td>Variety : KDML-105( Padumoni );<br>Check- Kola joha<br>Location : 05 (Gharfalia, Charingia, Kakojan, Churamoni, Hahnsora, )<br>Area: 0.65 ha (0.13 ha each location)<br>Date of transplanting: 05.07.15, 11.07.15, 01.07.15 , 3.07.15 & 03.07.15<br>Date of Harvesting : 23.11.15, 29.11.15, 17.11.15 , 21.11.15 & 19.11.15<br>Land situation : Lowland , flood prone<br>Flood stress: Recurring flood from late June- early Sept.</td></tr>
</table>
<table>
<tr><th>Parameters</th><th>KDML 105</th><th>Check</th></tr>
<tr><td>Plant height</td><td>123.4 cm</td><td rowspan="8">Total damage during tillering Stage due to flood.</td></tr>
<tr><td>Effective tiller no.</td><td>11.9</td></tr>
<tr><td>Days to maturity (days)</td><td>160</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>3.02</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>23760</td></tr>
<tr><td>Gross return (Rs/ha)</td><td>54270</td></tr>
<tr><td>Net return(Rs/ha)</td><td>31000</td></tr>
<tr><td>B.C Ratio</td><td>2.28</td></tr>
</table>
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<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>5</td><td>Rice-toria double cropping with medium duration rice variety TTB 404 and toria variety TS-38</td><td>1.Low yield of existing farmers medium duration (130-135d) Sali varieties for double cropped areas<br>2.Low cropping intensity</td><td>Medium duration Sali variety TTB 404 – Toria variety TS 38</td><td>Paddy, Toria</td><td>3</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Variety : Paddy - TTB 404, Bas Dhan (Check) , Toria = TS-38<br>
Location : 01 (Neul Gaon)<br>
No. of farmer: 03<br>
Area: 0.39 ha<br>
Land situation : Medium land
<table>
<tr><th rowspan="2">Parameters</th><th colspan="2">Rice</th><th rowspan="2">Toria (TS 38)</th></tr>
<tr><th>TTB 404</th><th>Bas Dhan (check)</th></tr>
<tr><td>Date of sowing</td><td>15.06.15</td><td>15.06.15</td><td>05.11.15</td></tr>
<tr><td>Date of transplanting</td><td>05.07.15</td><td>05.07.15</td><td>-</td></tr>
<tr><td>Date of harvesting</td><td>23.10.15</td><td>17.10.15</td><td>08.02.16</td></tr>
<tr><td>Plant ht. (cm)</td><td>110.45</td><td>97.6</td><td>112.85</td></tr>
<tr><td>Effective tiller no.</td><td>13.27</td><td>10.42</td><td></td></tr>
<tr><td>No. of siliqua/plant</td><td>-</td><td>-</td><td>264.27</td></tr>
<tr><td>Days to maturity (days)</td><td>129</td><td>123</td><td>95</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>4.14</td><td>3.11</td><td>0. 875</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>27100</td><td>27100</td><td>12,800</td></tr>
<tr><td>Gross return (Rs/ha)</td><td>55890</td><td>41985</td><td>26,250</td></tr>
<tr><td>Net return(Rs/ha)</td><td>28790</td><td>14885</td><td>13,450</td></tr>
<tr><td>B.C Ratio</td><td>2.06</td><td>1.55</td><td>2.05</td></tr>
</table>
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<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/ Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>6</td><td>Testing efficacy of boron foliar spray in reduction of spikelet sterility in Sali rice</td><td>High spikelet sterility in Sali rice under delayed planting situation</td><td>Foliar application of Boron in rice (one spraying of 4ppm boron at anthesis)</td><td>Paddy</td><td>03</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the 2nd time in Jorhat district, hence need further trial at least for 01 year to forward for recommendation /FLD</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Location : 05 (Khanamukh, Puranimatia, Dangdhora, Pirakata, Charingia)<br>
Area: 0.65 ha<br>
Date of application of treatment: 25.10.15 to 28.10.15
<table>
<tr><th>Parameters</th><th>Technology</th><th>Check</th></tr>
<tr><td>Plant height (cm)</td><td>101.56</td><td>103</td></tr>
<tr><td>Effective tiller no.</td><td>13</td><td>12.5</td></tr>
<tr><td>Grain per panicle</td><td>242</td><td>245</td></tr>
<tr><td>% of chaffy grain</td><td>8.52</td><td>12.1</td></tr>
<tr><td>Days to maturity (days)</td><td>152.55</td><td>155</td></tr>
<tr><td>Yield (t/ha)</td><td>4.06</td><td>3.84</td></tr>
<tr><td>Gross cost ((Rs/ha)</td><td>27100</td><td>27000</td></tr>
<tr><td>Gross return(Rs/ha)</td><td>40300</td><td>38100</td></tr>
<tr><td>Net return (Rs/ha)</td><td>13200</td><td>11100</td></tr>
<tr><td>B.C Ratio</td><td>1.48</td><td>1.41</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>OFT on Organic Rice</td><td>1.Indiscriminate use of chemical fertilizer and plant protection chemicals<br>2.Absence of organic package for paddy</td><td>Enriched compost @ 5 t/ha + Biofertilizer (Azospirillum, Azotobacter, PSB)<br>PP Measures : Pheromone traps + Trichocard + Neem based pesticides</td><td>Paddy</td><td>03</td><td>Referred to the table below</td><td>Positive response towards the technology</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Location : 03(Khanamukh, Puranimatia, Dangdhora)<br>
Area: 0.40 ha<br>
Var: Kon joha<br>
Date of sowing : 20.06.15<br>
Date of transplanting : 21.07.15
<table>
<tr><th>Parameters</th><th>Treatment</th><th>Check</th></tr>
<tr><td>Plant height (cm)</td><td>95</td><td>92</td></tr>
<tr><td>Av. Yield (t/ha)</td><td>3.53</td><td>3.0</td></tr>
<tr><td>B:C Ratio</td><td>2.65</td><td>2.14</td></tr>
</table>
</td></tr>
</table>

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Assessment of efficacy of Bio-fertilizer in Kharif Black gram productivity | Soil health deterioration due to continuous use of only inorganic fertilizer | Biofertilizer Seed inoculation with Rhizobium and PSB each @50g/ kg seed | Kharif blackgram | 3 | Referred to the table below | Positive response towards the technology. | As this technology is assessed for the 2nd time in Jorhat district, hence need further trial at least for 01 year to forward for recommendation /FLD | Referred to the table below |

**Location :** 05 (Khanamukh, Pirakata, Sukanjania(2), Moinapur)
**Area:** 0.65 ha
**Var:** Shekhar-1

| Parameters | Treatment | Farmers practice |
|---|---|---|
| Nutrient Status (Pre) | pH-5.20, Av. N-315 kg/ha, Av.$P_2O_5$-17.80 kg/ha, Av. $K_2O$-128 kg/ha | pH-5.45, Av. N-333 kg/ha, Av.$P_2O_5$-19.32 kg/ha, Av. $K_2O$-132kg/ha |
| Nutrient Status (Post) | pH-5.25, Av. N-301 kg/ha, Av.$P_2O_5$-16.66 kg/ha, Av. $K_2O$-125 kg/ha | pH-5.47, Av. N-330 kg/ha, Av.$P_2O_5$-18.50kg/ha, Av. $K_2O$-131kg/ha |
| Plant height (cm) | 55 | 49 |
| Plant Stand/sq m | 30 | 27 |
| Pod/ plant | 45 | 32 |
| Seed/ pod | 7 | 5 |
| Seed yield (t/ha) | 0.94 | 0.595 |
| Gross cost (Rs/ha) | 15300 | 15300 |
| Gross return (Rs/ha) | 42100 | 27100 |
| Net return (Rs/ha) | 26800 | 11800 |
| B.C Ratio | 2.75 | 1.77 |

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>9</td><td>Integrated Weed Management in summer black gram & green gram</td><td>1. Yield loss due to weed<br>2. High cost of manual weeding</td><td colspan="2">Referred to the box</td><td>03</td><td colspan="4">In progress</td></tr>
<tr><td colspan="3"></td><td colspan="2">Location : 02(Adi Elengi (2))<br>Area: 0.26 ha<br>Var: Summer Black gram = KU 301,<br>Summer Green Gram = Pratap</td><td colspan="5">Name of Technology Assessed<br>$T_1$= 15 kg N/ha as basal (P & K as recommended) + Pendimethalin 1.0 kg/ha as pre-emergence + one hand weeding at25-30DAS<br>$T_2$ = = 7.5 kg N/ha as basal + 2 % urea spray at 35-40 DAS (P & K RDF) + Pendimethalin 1.0 kg/ha as pre-emergence + one hand weeding at25-30DAS<br>$T_3$= Farmers practice – 15 kg N/ha as basal + P & K as recommended) + one hand weeding at 25-30 DAS</td></tr>
<tr><td>10</td><td>Weed Management in Lentil</td><td>1. Yield loss due to weed<br>2. High cost of manual weeding</td><td>$T_1$= Pendimethalin 1.0 kg/ha as pre-emergence followed by hand weeding at 40 DAS<br>$T_2$ = =Farmers practice (one hand weeding at 25-30 DAS)</td><td>Lentil</td><td>03</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="3"></td><td colspan="7">Variety : PL 406<br>Location: Neol Gaon (Allengmora)<br>Farmers : 03<br>Area : 0.06 ha / location<br>Date of sowing: 17.11.15<br>Date of harvesting : 20.03.16
<table>
<tr><th>Parameters</th><th>Treatment</th><th>Check</th></tr>
<tr><td>Plant height</td><td>58.7 cm</td><td>35cm</td></tr>
<tr><td>No of branches/ plant</td><td>16</td><td>12</td></tr>
<tr><td>No of Pod/ plant</td><td>33</td><td>27</td></tr>
<tr><td>Prominent weed species</td><td colspan="2">Chenopodium album, Cynodon dactylon, Cyparus rotundus</td></tr>
<tr><td>Weed population/$m^2$</td><td>4.73</td><td>12.41</td></tr>
<tr><td>Yield (t/ha)</td><td>0.877</td><td>0.712</td></tr>
<tr><td>Gross return (Rs/ha)</td><td>70160</td><td>56960</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>30070</td><td>32750</td></tr>
<tr><td>Net return (Rs/ha)</td><td>40090</td><td>24210</td></tr>
<tr><td>B.C Ratio</td><td>2.33</td><td>1.74</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sl No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>11</td><td>Performance of lentil var. HUL 57 under rice utera conditions of Jorhat District</td><td>i. Low cropping intensity<br>ii) Poor performance of non descriptive /local variety</td><td>T1= Sowing of HUL 57 using a seed rate of 45 kg/ha almost 15 days after 50% flowering of the Sali rice<br>T2 = =Farmers practice (Nil)</td><td>Lentil</td><td>3</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Variety : HUL 57<br>Rice variety (utera) : Bas Dhan<br>Location: Neol Gaon( Allengmora)<br>Farmers : 03<br>Area : 0.06 ha / location<br>Date of sowing: 03.11.15<br>Date of harvesting : 08.03.15
<table>
<tr><th>Parameters</th><th>Treatment</th><th>Check</th></tr>
<tr><td>Plant height (cm)</td><td>58.7</td><td rowspan="8">No farmers practice</td></tr>
<tr><td>No of branches/plant</td><td>18.2</td></tr>
<tr><td>No of Pod/ plant</td><td>33</td></tr>
<tr><td>Yield (t/ha)</td><td>0.731</td></tr>
<tr><td>Gross return (Rs/ha)</td><td>58480</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>25650</td></tr>
<tr><td>Net return (Rs/ha)</td><td>32830</td></tr>
<tr><td>B:C ratio</td><td>2.27</td></tr>
</table>
</td></tr>
<tr><td>12</td><td>Foliar Nutrition Supplementation in Lentil</td><td>1. To reduce loss of N from applied fertilizer and supply of N at critical growth stage<br>2. Lentil is not cultivated as a double cropping sequence crop in the district</td><td>Nutrients N:P:K @ 15:35:15 kg/ha and 2 sprays of 2% urea at branching (35 DAS) and pod initiation (75DAS) stages</td><td>Lentil</td><td>3</td><td>Referred to the table below</td><td>Positive response towards the technology.</td><td>As this technology is assessed for the first time in Jorhat district, hence need further trial at least for 2 years to forward for recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
Location : 05 (Neol gaon, Alengmora (3), Loliti)<br>Area: 0.65 ha<br>Var: PL 406<br>DOS: 12.11.15<br>DOH : 16.03.16
<table>
<tr><th>Parameters</th><th>Treatment</th><th>Check</th></tr>
<tr><td>Avg. Plant height(cm)</td><td>59</td><td>54</td></tr>
<tr><td>No of pod/plant</td><td>55</td><td>48</td></tr>
<tr><td>No of Pod/ plant</td><td>33</td><td>27</td></tr>
<tr><td>Avg No of Seed/pod</td><td>2.0</td><td>1.8</td></tr>
<tr><td>Yield (t/ha)</td><td>0.75</td><td>0.63</td></tr>
<tr><td>B:C ratio</td><td>2.05</td><td>1.70</td></tr>
</table>
</td></tr>
</table>

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 13 | INM in Lathyrus under Rice Utera condition (Lathyrus Variety: *Ratan*) | Non adoption of integrated nutrient management practices in Lathyrus and lack of awareness about low BOAA containing Lathyrus variety | Referred to the table | Lathyrus | 03 | Referred to the table below | Positive response towards the technology. | As this technology is assessed for the 2nd time in Jorhat district, hence need further trial at least for 01 year to forward for recommendation/FLD | Referred to the table below |

**Location :** 05 (Neolgaon (3), Bormukali, Loliti)
**Area:** 0.65 ha
**Var:** Nirmal
DOS: 04.11.15 to 05.11.15
DOH : 25.03.16

| Technology Assessed | Parameters | Treatment | Farmers practice |
|---|---|---|---|
| INM Top dressing of 5: 13 kg N : $P_2O_5$/ha at sowing and 5: 13:15 kg N : $P_2O_5$: $K_2O$/ha at rice harvest along with seed inoculation with Rhizobium & PSB @ 50 g/kg of seed and two sprays of 2 % urea at branching(45 DAS) and pod initiation (80 DAS) stages | Nutrient Status (pre) | pH-5.95, Av. N-374 kg/ha, Av.$P_2O_5$-21.65 kg/ha Av. $K_2O$-104.0 kg/ha | pH-5.80, Av. N-389 kg/ha, Av.$P_2O_5$-23.30 kg/ha, Av. $K_2O$-99.30 kg/ha |
| | Nutrient Status (post) | pH-5.90, Av. N-377 kg/ha, Av.$P_2O_5$-20.60 kg/ha Av. $K_2O$-101.96 kg/ha | pH-5.78, Av. N-392 kg/ha, Av.$P_2O_5$-21.49 kg/ha, Av. $K_2O$-96.50 kg/ha |
| | Plant height (cm) | 95 | 89 |
| | Plant Stand (plants/ $m^2$) | 83 | 86 |
| | Pod/ plant | 38 | 31 |
| | Seed/ pod | 4.5 | 3.2 |
| | Yield (t/ha) | 0.815 | 0.498 |
| | Gross return | 16300 | 9960 |
| | Gross cost | 8500 | 6200 |
| | Net return | 7800 | 3760 |
| | B.C Ratio | 1.91 | 1.60 |

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio |
|---|---|---|---|---|---|---|---|---|---|
| 14 | Assessment of production performance of toria under canopy mgt. | Low availability of quality seed | **Seed rate** : 7.5 kg / ha<br>**Check :** Normal seed rate of 10 kg/ha | Toria | 03 | Referred to the table below | Positive response towards this refined technology. | As this technology is refined for the 1st time in Jorhat district, hence need further trial at least for 02 years to forward for recommendation /FLD | Referred to the table below |

**Variety :** TS 38
**Location** : 02 (Grezing chapori (Majuli) and Borkhelia(2)
**Area:** 0.39 ha
**Land situation :** Medium land
**Date of sowing :** 14.11.15
**Date of harvesting :** 22.02.16

| Parameters | Technology | Check |
|---|---|---|
| Plant height (cm) | 112.85 | 109.42 |
| Days to maturity | 87 | 87 |
| No of siliqua /plant | 268.23 | 260.27 |
| Disease-pest | Negligible | Negligible |
| Yield (t/ha) | 1.045 | 1.014 |
| Gross cost (Rs/ha) | 12,600 | 12,800 |
| Gross return (Rs/ha) | 31350 | 30420 |
| Net return (Rs/ha) | 18750 | 17620 |
| B.C Ratio | 1.48 | 1.37 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 15 | Soil Test crop response correlation studies (STCR-IPNS) on crop Toria var. TS-38 & JT-90-1 | Non availability of precise site specific fertilizer recommendation in Toria | Fertilizer recommendation based on soil test report<br>T1=farmers practice<br>T2= STCR Targeted Yield 12q/ha (Inorganic)<br>T3= STCR Targeted Yield 12q/ha (IPNS) | Toria | 03 | Referred to the table below | Positive response towards this refined technology. | Needs further trial at least for 02 years to forward for recommendation /FLD | Referred to the table below |

**Variety:** TS -38 & JT-90-1
**Location:** Loliti, Moinaporia, Borkhelia
**Area:** 0.20 ha in each location
**DOS:** Loliti= 14.11.15 , Moinaparia- 21.11.15 ,Borkhelia = 21.11.15
**DOH :** 20.02.16 - 02.03.16

| Parameters | Toria var.: TS -38 | | | Toria var.: JT 90-1 | | |
|---|---|---|---|---|---|---|
| | $T_1$ | $T_2$ | $T_3$ | $T_1$ | $T_2$ | $T_3$ |
| Land situation | Medium land | | | Medium land | | |
| Yield(t/ha) | 0.701 | 0.95 | 0.934 | 0.685 | 0.862 | 0.849 |
| Gross cost | 14800 | 15900 | 15400 | 14800 | 15400 | 15100 |
| Gross return | 24300 | 32250 | 31450 | 22950 | 28877 | 28441 |
| Net return | 9500 | 16350 | 16050 | 8150 | 13477 | 13341 |
| B.C Ratio | 1.64 | 2.02 | 2.04 | 1.55 | 1.87 | 1.88 |

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 16 | Assessment of dwarf dolichos var. IIHR-Sel-1 | Lack of high yielding determinate( dwarf) var of Dolichos | Dwarf Dolichos var IIHR Sel-1 | Dolichos | 03 | Referred to the table below | Satisfied | As the variety is tested for 2 years , it may be put forward for recommendation/ FLDs | Referred to the table below |

**Location :** Puranimatia, Tulasijan, Charingia gaon
**No. of farmers :** 03
**Area :** 0.195 ha

| Parameters | Technology | Check (Vine type) |
|---|---|---|
| Plant height(cm) | 64.5 | >825 |
| Number of beans/plant | 65 | >200 |
| No. of pickings | 3 | numerous |
| Days to first harvest | 65 | 90 |
| plant population/ ha | 27777 | 4444 |
| Crop duration (Days) | 102 | >200 |
| Bean yield/plant (kg) | 1 | 4 |
| Yield( t/ha) | 23.5 | 17.3 |
| Gross Cost (Rs/ha) | 20,000 | 22,000 |
| Gross Return (Rs/ha) | 1,50,000 | 1,10,374 |
| Net return (Rs/ha) | 1,30,000 | 88,374 |
| B:C | 7.5 | 5.01 |

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 17 | Testing of Organic cultivation practice of early summer Okra | Indiscriminate use of chemical fertilizers & pesticides | Referred to the table below | Okra | 3 | **In progress** | | | |

**Technology assessed :** Biofertilizer and organic cultivation package -i.Azotobacter 7.5 g+ PSB 7.5 g for treatment of 100g seeds, ii.FYM 5t/ha, iii.vermicompost 1t/ha, Rock phosphate 320 kg /ha

**Location :** Gharfalia, Tulasijan, Charingia gaon, **No. of farmers :** 03, **Area :** 0.195 ha

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>18</td><td>Weed management in Brinjal</td><td>i. High cost of production due to manual weeding<br>ii. Dearth of Agricultural labourers</td><td>Oxadiargyl 90g/ha followed by garden hoeing at 30 and 60 DAP</td><td>Brinjal</td><td>3</td><td>Referred to the table</td><td>Satifactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10">
Location : Bamun pukhuri, Gharfalia, Puranimatia,<br>No. of farmers : 03<br>Area : 0.195 ha
<table>
<tr><th>Parameters</th><th>Technology</th><th>Check (Local var)</th></tr>
<tr><td>Plant height (cm)</td><td>95.7</td><td>75.3</td></tr>
<tr><td>Number of fruits/plant</td><td>15</td><td>12</td></tr>
<tr><td>Fruit length (cm)</td><td>25</td><td>25</td></tr>
<tr><td>Weight of fruit/plant (kg)</td><td>1.75</td><td>1.2</td></tr>
<tr><td>Yield( t/ha)</td><td>32</td><td>26</td></tr>
<tr><td>Weed population count (no./$m^2$)</td><td>2.7</td><td>22.1</td></tr>
<tr><td>Gross Cost (Rs/ha)</td><td>45,000</td><td>50,000</td></tr>
<tr><td>Gross Return (Rs/ha)</td><td>3,20,000</td><td>2,60,000</td></tr>
<tr><td>Net return (Rs)</td><td>2,75,000</td><td>2,10,000</td></tr>
<tr><td>B:C</td><td>6.11</td><td>4.2</td></tr>
</table>
</td></tr>
<tr><td>19</td><td>Integrated Pest Management of Tomato fruit borer</td><td>Heavy incidence of fruit borer in Tomato in late planting</td><td>Referred to the table</td><td>Tomato</td><td>5</td><td colspan="4">In progress</td></tr>
<tr><td colspan="10">
Technology assessed : 1.Planting of African marigold as trap crop, 2.Seed treatment with Imidacloprid @ 3 gm/ kg of seed, 3.Release of Trichograma chilonis @ 50000 eggs/ ha (7days interval), 4. Spraying of neem based pesticides at 7 days interval from 30 days after planting<br>
Location : Bamunpukhuri, Tulasijan, Majkuri, Balama, No. of farmers : 04, Area : 0.26 ha
<table>
<tr><th>Parameters of assessment/refinement</th><th>Result</th></tr>
<tr><td>Date of planting</td><td>14-02-2016</td></tr>
<tr><td>1. Percent incidence of insects/5 $m^2$ area at 15 days interval<br>2. Percent infestation of fruit/5 $m^2$ area at 15 days interval<br>4. Percent incidence of any other insects and diseases<br>5.Yield<br>6. Farmers reaction</td><td>In progress</td></tr>
</table>
</td></tr>
</table>

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 20 | Assessment of performance of commercial pellet feed in Indian major carp Culture | Higher price and unavailability of conventional feed ingredients | Feeding with balanced diet for higher production Fingerlings- 750 / bigha | Indian major carp | 03 | Referred to the table | Satisfactory | Needs further trial for recommendation | Referred to the table |

| Parameters | Results | |
|---|---|---|
| | Demonstration | Farmer's practice |
| Avg. Survival (%) | 82 | 80 |
| Length (cm) | 36 | 33 |
| Avg. Weight (gm/no) | 750 | 520 |
| Yield (q/ha) | 23 | 12.9 |
| Gross cost (Rs) | 2,00,000 | 2,03,623 |
| Gross return (Rs) | 6,20,000 | 4240000 |
| Net return (Rs/ha) | 4,20,000 | 2,20,377 |
| B:C ratio | 2.0 | 1.10 |

| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined | Feedback from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Assessment of carp productivity with supplementary *Azolla* nutrition | High price of fish feed ingredient i.e. Rice Bran and Mustered Oil Cake | Feeding Management (Substitution of Rice Bran and MOC with *Azolla;* RB:MOC:Az= 25:25:50) | *Azolla* | 3 | Referred to the table | Satisfactory | Needs further trial for recommendation | Referred to the table |

| Parameters | Results | |
|---|---|---|
| | Demonstration | Farmer's practice |
| Avg. Survival (%) | 80 | 80 |
| Length (cm) | 31.5 | 32 |
| Avg. Weight (gm/no) | 680 | 530 |
| Yield (q/ha) | 22.9 | 14.5 |
| Gross cost (Rs) | 1,46,765 | 1,79,718 |
| Gross return (Rs) | 5,40,000 | 4,28,400 |
| Net return (Rs/ha) | 3,93,235 | 2,48,682 |
| B:C ratio | 2.68 | 1.37 |

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>22</td><td>Assessment of production performance of multiple harvesting carp culture practice with Bhangan</td><td>High demand of Bhangan, less availability of the fish species in locality</td><td>High stocking of Bhangan, multiple harvesting</td><td>Bhangan,</td><td>3</td><td>Referred to the table</td><td>Satisfactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10"><table>
<tr><th>Parameters</th><th>Demonstration</th><th>Farmer’s practice</th></tr>
<tr><td>Avg. Survival (%)</td><td>70 %</td><td>Only carps</td></tr>
<tr><td>Length (cm)</td><td>18.5 Cm</td><td>36.5cm</td></tr>
<tr><td>Avg. Weight (gm/no)</td><td>50 gm</td><td>425 g</td></tr>
<tr><td>Gross cost (Rs)</td><td>184900</td><td>214457</td></tr>
<tr><td>Gross return (Rs)</td><td>615700</td><td>499685</td></tr>
<tr><td>Yield (q/ha)</td><td>2.54</td><td>16.68</td></tr>
<tr><td>Net return (Rs/ha)</td><td>365700</td><td>285228</td></tr>
<tr><td>B:C ratio</td><td>1.98</td><td>1.33</td></tr>
</table></td></tr>
<tr><td>23</td><td>Testing low cost cage rearing system of hybrid layer bird (Breed- BV-300)</td><td>Lack of low cost cage rearing system in hybrid layer, Poor production potential of indigenous birds</td><td>low cost cage rearing system of hybrid layer bird (Variety- BV-300)</td><td>Hybrid layer bird (Breed- BV-300)</td><td>01</td><td>Referred to the table</td><td>Satisfactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10"><table>
<tr><th>Parameters</th><th>Low cost cage rearing</th><th>Normal layer rearing</th></tr>
<tr><td>Body weight at first egg</td><td>1.15kg</td><td>1.06kg</td></tr>
<tr><td>Age at first egg</td><td>112days</td><td>110</td></tr>
<tr><td>Egg weight</td><td>35 gm (First Egg)<br>50 gm (3rd month of lay)</td><td>35 gm (First Egg)<br>50 gm (3rd month of lay)</td></tr>
<tr><td>Egg production</td><td>318</td><td>220</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sl. No</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>24</td><td>Performance assessment of solar dryer for processing perishable fruits and vegetables</td><td>Drying is weather dependent with low efficiency Wastage of vegetables</td><td>Solar dryer for processing perishable fruits and vegetables</td><td>Solar dryer</td><td>03</td><td>Referred to the table</td><td>Satisfactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10"><table>
<tr><th>Parameters</th><th>Demonstration (Mushroom)</th><th>Sun drying (Mushroom)</th></tr>
<tr><td>i. Drying time</td><td>2 full sunny days</td><td>4 full sunny days darker</td></tr>
<tr><td>ii. Colour</td><td>Fair</td><td>Not crispy</td></tr>
<tr><td>iii. Dryness</td><td>Crispy</td><td>$32^0$</td></tr>
<tr><td>iv. Temperature</td><td>$62^0$</td><td>15.38 %</td></tr>
<tr><td>v. % Moisture after drying</td><td>8.23 %</td><td></td></tr>
</table></td></tr>
<tr><td>25</td><td>Addition of natural Food colorants in traditional snacks and sweets to enhance consumers preference and marketability</td><td>Excessive use of synthetic color</td><td>Extraction and addition of colour from natural sources viz., beat root, to some traditional sweets ( Coconut and rice Laddu)</td><td>Natural dye</td><td>03</td><td>Referred to the table</td><td>Satifactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10"><table>
<tr><th>Parameters</th><th>Demonstration</th><th>Synthetic colour</th></tr>
<tr><td>Colour</td><td>Lighter & pleasant colour than synthetic colur</td><td>Bright colour</td></tr>
<tr><td>Flavour</td><td>Pleasant flavour</td><td>Artificial flavouring</td></tr>
<tr><td>Taste</td><td>Not effected the taste of the products</td><td>Not effected</td></tr>
<tr><td>Cost</td><td>Low cost</td><td>Costly</td></tr>
</table></td></tr>
<tr><td>26</td><td>Assessment of fermentation based low cost vegetable preservation technique</td><td>Lack of practices for preservation of seasonal vegetables</td><td>Referred to the table below</td><td>Vegetable</td><td>3</td><td>Referred to the table</td><td>Satifactory</td><td>Needs further trial for recommendation</td><td>Referred to the table</td></tr>
<tr><td colspan="10"><table>
<tr><td>Lactic acid fermented vegetable products particularly that of Cabbage commonly known as ‘Gundruk’ is a delicacy and a healthy food. Cabbage contains desirable lactic acid bacteria which help in fermentation. Add 22.5 gm of salt (NaCI) per Kg of shredded vegetables.</td><td><table>
<tr><th>Parameters</th><th>Demonstration</th><th>Farmers practice</th></tr>
<tr><td>i. Appearance</td><td>Lighter than original</td><td rowspan="4">Only cabbage pickling is done</td></tr>
<tr><td>ii. Taste</td><td>Fermented taste</td></tr>
<tr><td>iii. Flavour</td><td>Fermented flavour</td></tr>
<tr><td>iv,. Storability</td><td>Still edible</td></tr>
<tr><td>iv. Acceptability</td><td>Accepted technology</td><td></td></tr>
</table></td></tr>
</table></td></tr>
</table>

***Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.** Give details of the technology assessed or refined and farmer’s practice***

### 3.2 Achievements of Frontline Demonstrations during 2015-16

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

| Sl. No | Crop/ Enterprise | Technology demonstrated | Horizontal spread of technology | | |
|---|---|---|---|---|---|
| | | | No. of villages | No. of farmers | Area in ha |
| 1 | Paddy | Integrated Nutrient management | 02 | 05 | 01 |
| 2 | Paddy | Integrated Nutrient management | 03 | 09 | 02 |
| 3 | Paddy | Sali paddy variety- TTB303-2-23 , TTB 303-1-42 for water logged condition | 03 | 10 | 05 |
| 4 | Paddy | Medium duration Variety TTB-404 & Mulagabharu | 04 | 15 | 5.5 |
| 5 | Paddy | Early ahu Variety-Luit | 05 | 25 | 05 |
| 6 | Paddy | Staggered planting Variety- Gitesh & Submergence tolerant vriety Swarna sub 1 | 07 | 18 | 07 |
| 7 | Paddy | Boro paddy Variety- Joymati | 11 | 73 | 55 |
| 8 | Paddy | Scented paddy Var- Black rice | 03 | 08 | 02 |
| 9 | Maize | Integrated Pest Management | 05 | 13 | 02 |
| 10 | Sugarcane | Variety -Kalang & Doria | 03 | 21 | 03 |
| 11 | Toria | Variety- TS 38 & TS 67 | 07 | 72 | 70 |
| 12 | Black gram (variety-Shekhar1) | Nutrient management | 04 | 15 | 05 |
| 13 | Green gram (Pratap) | Nutrient management | 04 | 21 | 07 |
| 14 | Brinjal (okra) | Crop management | 06 | 20 | 1.5 |
| 15 | Khasi mandarin | Orchard rejuvenation | 03 | 03 | 0.4 |
| 16 | Tissue culture banana | Varietal evaluation | 07 | 21 | 03 |
| 17 | Tuberose | Integrated weed management | 3 | 9 | 1.5 |
| 18 | Broccoli | Crop management | 05 | 32 | 02 |
| 19 | Poultry | Duck breed- Khaki Campbell | 12 | 120 | 50 units |
| 20 | Nutritional Garden | Nutritional Garden | 03 | 30 | 0.5 |
| 21 | Farm implements | AAU modified MB plough, helical blade puddler, improved yoke suitable for local bullock of Assam | 05 | 50 | 05 units |
| 22 | Hand gloves | Drudgery reducing hand gloves | 03 | 09 | 03 units |

**** Thematic areas as given in Table 3.1 (A1 and A2)***

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

| Sl. No. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievement | Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc) | Status of soil (Kg/ha) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | | | N | P | K |
| **Cereal crops :** | | | | | | | | | | | | | | |
| 1. | *Sali* Paddy | Varietal evaluation | Paddy variety suitable for waterlogged situation (Variety-TTB303-2-23 , TTB 303-1-42 | Kharif, 2015 | 03 | 03 | - | 03 | 03 | - | Rainfed | | | |
| 2. | *sali* paddy | Varietal evaluation | Medium duration Paddy variety-Mulagabharu | Kharif, 2015 | 03 | 03 | 03 | - | 03 | - | Rainfed | | | |
| 3 | *Sali* paddy | Integrated Nutrient Management | INM in *Sali* rice | Kharif, 2015 | 1.5 | 1.5 | 01 | 02 | 03 | - | Rainfed | | | |
| 4 | *sali* paddy | Integrated Nutrient Management | Efficacy of Zinc in Rice Productivity | Kharif, 2015 | 1.5 | 1.5 | 01 | 02 | 03 | - | Rainfed | | | |
| 5 | *Maize* | Integrated Nutrient Management | ICM in maize | Rabi; 2015-16 | 01 | 01 | 03 | - | 03 | - | Rainfed | | | |
| **Horticultural crops :** | | | | | | | | | | | | | | |
| 6 | Banana | Tissue culture | Banana var.Grand Naine | Year round, 2015-16 | 0.13 | 0.13 | 01 | 01 | 02 | - | Rainfed | | | |
| 7 | Tuberose | | Tuberose | Year round, 2015-16 | 0.13 | 0.13 | - | 01 | 01 | - | Rainfed | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pulses :** | | | | | | | | | | | | | | |
| 8 | Lentil | Integrated crop Management | ICM of lentil | Kharif, 2015-16 | 01 | 01 | 03 | - | 03 | - | Rainfed | | | |
| 9 | Lentil | Integrated crop Management | Lentil (Var. – Moitree, KLS 218) | Kharif, 2015-16 | - | 04 | 15 | 16 | 31 | - | Rainfed | | | |
| **Sugar crop :** | | | | | | | | | | | | | | |
| 10 | Sugarcane | Varietal evaluation | HY variety – Kalang, Borak, Dhansiri, Doria & Kapilipar | Kharif, 2015-16 | 0.4 | 0.4 | - | 06 | 06 | - | Rainfed | | | |
| **Tuber crops:** | | | | | | | | | | | | | | |
| 11 | Potato | Integrated crop Management | ICM of potato | Rabi' 2015-16 | - | 0.13 | - | 01 | 01 | - | Rainfed | | | |
| Fodder | | | | | | | | | | | | | | |
| 12 | Green fodder | Integrated crop Management | Year round fodder production(crop-seteria/H. napier/ congo signal) | Rabi' 2015-16 | 0.5 | 0.5 | 2 | 3 | 05 | - | Rainfed | | | |
| | | | | | | | | | | | | | | |

**c. Performance of FLD on Crops**

| Sl. No. | Crop | Thematic area | Area (ha.) | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. yield (Q/ha.) | | Data on parameters other than yield, e.g., disease incidence, pest incidence etc. | | Econ. of demo. (Rs./ha.) | | | | Econ. of check (Rs./Ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demo. | Check | | H* | L* | Demo | Local | GC** | GR** | NR** | BCR** | GC | GR | NR | BCR |
| **1** | *Sali* paddy | Varietal evaluation | **1.5** | 50.12 (Var. TTB-303-2-23) | 42.0 (Swarna Sub-1) | 19.33 | 51.57 | 48.67 | Negligible | | 27100 | 67662 | 40562 | 2.50 | 27100 | 56700 | 29600 | 2.09 |
| | | | | 49.32 (Var. TTB-303-1-42) | | 17.43 | 50.87 | 47.78 | | | 27100 | 66582 | 39482 | 2.45 | | | | |
| 2 | Paddy var-Mulagabharu | Varietal evaluation | 03 | 44.70 | 35.00 (Basdhan) | 27.71 | 47.52 | 41.87 | | | 27100 | 60345 | 33245 | 2.23 | 26100 | 47250 | 21150 | 1.81 |
| 3 | Paddy (Var-Ranjit) | INM | 1.5 | 53 | 40.5 | 30.86 | 54 | 52 | Negligible | | 25800 | 53600 | 27200 | 2.05 | 23200 | 40500 | 17300 | 1.74 |
| 4 | Paddy (Var.-Ranjit) | INM | 1.5 | 57 | 42.0 | 35.71 | 60.0 | 53.0 | Negligible | | 27200 | 57000 | 29800 | 2.09 | 23400 | 42000 | 18600 | 1.79 |
| 5 | Sugarcane | Varietal evaluation | 0.5 | 634.99 (kalang) | 485.27 | 30.85 | 649.74 | 620.24 | Negligible | | 63290 | 126998 | 63708 | 2.01 | 56200 | 97054 | 40854 | 1.72 |
| | | | | 630.43 (Borak) | | 29.91 | 631.57 | 629.29 | | | | 126086 | 62796 | 1.99 | | | | |
| | | | | 639.59 (Dhansiri) | | 31.8 | 645.72 | 633.45 | | | | 127918 | 64628 | 2.02 | | | | |
| | | | | 635.46 (Doria) | | 30.95 | 637.95 | 632.97 | | | | 127092 | 63802 | 2.01 | | | | |
| | | | | 644.84 (Kapilipar) | | 32.88 | 646.77 | 642.91 | | | | 128968 | 65678 | 2.04 | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Lentil | Varietal evaluation | 04 | 8.975 (Moitree) | 6.12 | 46.65 | 9.21 | 8.74 | Negligible | 30070 | 71800 | 41730 | 2.39 | 28900 | 48960 | 20060 | 1.69 |
| | | | | 9.095 (KLS 218) | | 48.61 | 9.37 | 8.82 | | | 72760 | 42690 | 2.41 | | | | |
| 7 | Lentil | ICM | 01 | 9.4 | 6.12 | 52.90 | 9.54 | 8.42 | Negligible | 30070 | 75200 | 45130 | 2.50 | 28900 | 48960 | 20060 | 1.69 |
| 8 | Maize | ICM | In Progress | | | | | | | | | | | | | | |
| 9 | Potato | ICM | 0.13 | 120.72 | 60.81 | 49.62 | 130.65 | 110.35 | Negligible | 144864 | 80977 | 63887 | 1.78 | 108735 | 72977 | 35758 | 1.38 |
| 10 | Green fodder | ICM | In Progress | | | | | | | | | | | | | | |
| 11 | Banana | Tissue culture | 0.13 | 375.0 | 300 (Borjahaji) | 25 | 377.5 | 372.5 | Negligible | 121074 | 750000 | 628926 | 5.19 | 113000 | 600000 | 487000 | 5.30 |
| 12 | Tuberose | Floriculture | 0.13 | 1.80 lakhs | 1.5 lakhs | 20 | 1.84 lakhs | 1.76 lakhs | Negligible | 204666 | 144000 | 123534 | 6.03 | 194666 | 900000 | 705334 | 4.62 |

*****H-Highest recorded yield, L- Lowest recorded yield ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio

Produce Sale Price must be as per MSP or Registered Marketing Society Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

*Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.*

**d. Extension and Training activities under FLD on Crops**

| Sl.No. | Activity | No. of activities organized | Date | Number of participants | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | Gen | SC/ST | Total | |
| 1 | Field days | 10 | 28th Nov, 2015, 3rd Feb, 2016, 5th Feb, 2016 , 5th Feb, 2016, 6th Feb, 2016, 26th Feb, 2016, 2nd March,2016, 19th March,2016,21st March,2016, 31st March,2016 | 306 | 58 | 364 | |
| 2 | Farmers Training | 14 | 3.3. Achievements on Training | 225 | 140 | 365 | |
| 3 | Media coverage | 2 | 11th July, 2015; 5th December, 2015 | 439 | 130 | 569 | |
| 4 | Training for extension functionaries | - | - | - | - | - | |
| 5 | Method Demonstration | 10 | 26th June,2015;7th July,2015; 22nd July, 2015;4th August,2015; 10th August,2015; 28th January,2016; 16th February,2016; 17th February,2016; 10th March,2016; 31st March,2016 | 195 | 62 | 257 | |
| | **Total** | **36** | | **1165** | **390** | **1555** | |

**e. Details of FLD on Enterprises**

(i) Farm Implements : NIL

**(ii) Livestock Enterprises**

| Sl. No. | Enterprise/ Category (e.g., Dairy, Poultry etc.) | Thematic area | Name of Technology | No. of farmers | No. of units | No. of animals, poultry birds etc. | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | Check | | Demo | Check | GC** | GR** | NR** | BCR** | GC | GR | NR | BCR | |
| 1 | Kalinga brown | Breed Introduction | Kalinga brown | 20 | 20 | 10 | i. Body wt 1 month: 0.088 (M)<br>0.067 (F)<br>3 month: 0.75(M)<br>0. 60 (F)<br>ii. Mortality-2% (till now)<br>iii. Age at 1st egg laid - Contd..<br>In Progress..<br>iv. Weight at 1st laying-Contd..<br>In Progress..<br>v. No of egg laid- Contd. | | | | | | | | | | | | | | The programme was started 3 months back. The egg production has not started yet but the growth performance till now is quite satisfactory and found higher than that of the local chicks. |
| 2 | Khaki Campbell duck | Breed Introduction | Khaki Campbell | 20 | 20 | 11 | i. Body weight (Kg): 1 month: 0.200 (M)<br>0.167 (F)<br>4 month: 1.75(M)<br>1.25-1.5 (F)<br>12 months: 2.0(M)<br>1.5(F)<br>Mortality-4% (till now)<br>iii. Age at 1st egg laid – 4months<br>iv. Weight at 1st laying- 65g<br>iv. Egg production/year- 250-280nos | | | | | | | | | | | | | | Though body weight gain of technology & local check is similar, egg production is significantly higher in technology |

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

**Produce Sale Price must be as per MSP or Registered Marketing Society**

**Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC**

***Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.***

**(iii) Fisheries**

| Sl. No. | Category | Thematic area | Name of Technology | No. of farmers | No. of units | No. of fish/ fingerlings | Yield (Q/Ha) | | % change | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Demo | Check | | GC | GR | NR | BC | GC | GR | NR | BC | |
| 1 | Indian Major Carp and Exotic Carps | Production and management | Species combination and ratio in Composite Fish Culture (Surface, Column Feeder 30%; Bottom feeder 40%) | 3 | 1 | Fingerlings, 1650 nos. | 22.5 | 18 | 14.28 | 1,55,000 | 4,05,500 | 2,50,000 | 1.6 | 1,45,000 | 2,80,000 | 1,35,000 | 0.93 | - |
| 2 | Indian Major Carps and Exotic Carps | Production and management | Backyard Nursery Pond Mgt for production of stunted fingerlings | 3 | 1 | Spawn, 6 lakh | 72 | 30 | 17.6 | 11,90,625 | 53,43,750 | 35,20,312.50 | 1.93 | 1,95,000.00 | 3,30,000.00 | 1,35,000.00 | 0.69 | - |
| 3 | Duck and Fish | Integrated Fish Farming | Integrated Duck cum Fish Culture | 3 | 1 | Fingerlings, 1500 nos. | 26.25 | 17.5 | 18.75 | 1,75,000.00 | 6,75000.00 (Fish, 4,72,000.00; Duck Meat, 1,20,000.00; Egg, 85,000.00) | 5,00,000.00 | 2.85 | 1,35,000.00 | 2,85,000.00 | 1,50,000.00 | 1.1 | - |

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

***Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.***

**(iv) Other enterprises**

<table>
<tr><th rowspan="2">Sl. No.</th><th rowspan="2">Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.</th><th rowspan="2">Thematic area</th><th rowspan="2">Name of Technology</th><th rowspan="2">No. of farmers</th><th rowspan="2">No. of units</th><th colspan="2">Major Performance parameters / indicators</th><th rowspan="2">% change in the parameter</th><th colspan="2">Other parameters (if any)</th><th colspan="4">Econ. of demo. (Rs./Ha.)</th><th colspan="4">Econ. of check (Rs./Ha.)</th><th rowspan="2">Remarks</th></tr>
<tr><th>Demo</th><th>Check</th><th>Demo</th><th>Check</th><th>GC**</th><th>GR**</th><th>NR**</th><th>BCR**</th><th>GC</th><th>GR</th><th>NR</th><th>BCR</th></tr>
<tr><td>1</td><td>Mushroom</td><td>Production performance</td><td>Var. Oyster (P. ostrietus)</td><td>50</td><td>5</td><td colspan="15"><table><tr><th colspan="2">Yield of fresh mushroom</th><th colspan="2">Economics study</th></tr><tr><td>1st picking /bed</td><td>950 gm</td><td>GC (Rs./Mushroom bed)</td><td>50</td></tr><tr><td>2nd picking / bed</td><td>650 gm</td><td>GR (Rs/bed)</td><td>345</td></tr><tr><td>3rd picking /bed</td><td>450 gm</td><td>NR (Rs/bed)</td><td>295</td></tr><tr><td>4th picking / bed</td><td>250 gm</td><td rowspan="3">B:C Ratio</td><td rowspan="3">5.9</td></tr><tr><td>No. of picking</td><td>4 times</td></tr><tr><td>Avg. Yield per bed (kg)</td><td>2.3 kg</td></tr></table></td></tr>
<tr><td>2</td><td>RTS Guava juice</td><td>Value addition</td><td>RTS Guava juice</td><td>30</td><td>3</td><td colspan="15">Parameter: i. Appearance: Acceptable, ii. Taste: Good, iii. Flavour: Pleasant, iv. Awareness & Acceptability : Farmers become aware about the technology<br>Storage period (Upto 150 days) : Good colour, Pleasant flavour, no fungal growth</td></tr>
<tr><td>3</td><td>Processing of fruits for fruit bar preparation</td><td></td><td>Fruit bar from guava, mango, papaya</td><td>30</td><td>3</td><td colspan="15">Parameter: i. Appearance: Acceptable, ii. Taste: Good, iii. Flavour: Pleasant, iv. Awareness & Acceptability : Farmers become aware about the technology<br>Storage period (Upto 150 days) : Good colour, Pleasant flavour, no fungal growth</td></tr>
<tr><td>4</td><td>Value added product preparation from jackfruit</td><td></td><td>Squash, Pickle, chips from jackgruit</td><td>30</td><td>3</td><td colspan="15">Parameter: i. Appearance: Acceptable, ii. Taste: Good, iii. Flavour: Pleasant, iv. Awareness & Acceptability : Farmers become aware about the technology<br>Storage period (Upto 150 days) : Good colour, Pleasant flavour, no fungal growth</td></tr>
</table>

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.***

****H-Highest recorded yield, L- Lowest recorded yield ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

***Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.***

**3.3. Achievements on Training**

**3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)**

| Thematic area | No. of Courses/ prog | | | Participants | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | On-Campus | Spon On* | Total | General | | | | | | SC/ST | | | | | | Total | | | | | | Grand Total |
| | -1 | | | | | | | | | | | | | | | | | | | | | (x + y) |
| | | -2 | | Male | | Female | | Total | | Male | | Female | | Total | | Male | | Female | | Total | | |
| | | | (1+2) | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | |
| | | | | -4 | -5 | -6 | -7 | (a= 4+6) | (b= 5+7) | -8 | -9 | -10 | -11 | (c= 8+10) | (d= 9+11) | (4+8) | (5+9) | (6+10) | (7+11) | (x= a +c) | (y= b +d) | |
| **I. Crop Production : Nil** | | | | | | | | | | | | | | | | | | | | | | |
| **II. Horticulture** | | | | | | | | | | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | | | | | | | | | | |
| Production of low volume and high value crops | 1 | - | 1 | 16 | - | - | - | 16 | - | - | - | 6 | - | 6 | - | 16 | - | 6 | - | 22 | - | 22 |
| Income generation activities for empowerment of rural Women | 1 | - | 1 | - | - | 25 | - | 25 | - | - | - | - | - | - | - | - | - | 25 | - | 25 | - | 25 |
| **III Plant Protection** | | | | | | | | | | | | | | | | | | | | | | |
| IPM | 1 | 1 | 2 | 17 | 15 | | | 17 | 15 | | 7 | 5 | | 5 | 7 | 17 | 22 | 5 | | 22 | 22 | 44 |
| **IV.Fisheries** | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Integrated fish farming | 1 | - | 1 | 19 | - | 5 | - | 24 | - | 2 | - | - | - | 2 | - | 21 | - | 5 | - | 26 | - | 26 |
| **TOTAL** | 4 | 1 | 5 | 52 | 15 | 30 | | 82 | 15 | 2 | 7 | 11 | | 13 | 7 | 54 | 22 | 41 | | 95 | 22 | 117 |

**3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)**

| **Thematic area** | **No. of Courses/ prg.** | | | **Participants** | | | | | | | | | | | | | | | | | | **Grand Total** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Off** | **Sp Off*** | **Total** | **General** | | | | | | **SC/ST** | | | | | | **Total** | | | | | | |
| | | | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | |
| | | | | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | |
| **I. Crop Production** | | | | | | | | | | | | | | | | | | | | | | |
| Seed production | 6 | | 6 | 184 | | 25 | | 209 | | | | | | | | 184 | | 25 | | 209 | | 209 |
| **1. Horticulture** | | | | | | | | | | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | | | | | | | | | | |
| Production of low volume and high value crops | 1 | | 1 | 16 | | 0 | | 16 | | 0 | | 6 | | 6 | | 16 | | 6 | | 22 | | 22 |
| Nursery raising | 1 | | 1 | 28 | | 0 | | 28 | | 0 | | 0 | | 0 | | 28 | | 0 | | 28 | | 28 |
| **b) Fruits** | | | | | | | | | | | | | | | | | | | | | | |
| Cultivation of Fruit | 2 | | 2 | 26 | | | | 26 | | 15 | | 14 | | 29 | | 41 | | 14 | | 55 | | 55 |
| **d) Plantation crops** | | | | | | | | | | | | | | | | | | | | | | |
| Production and Management technology | 2 | | 2 | 10 | | 51 | | 61 | | 32 | | 8 | | 40 | | 42 | | 59 | | 101 | | 101 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **f) Spices** | | | | | | | | | | | | | | | | | | | | | |
| Production and Management technology | 1 | | 1 | 11 | | 12 | | 23 | | 0 | | 0 | | 0 | | 11 | | 12 | | 23 | | 23 |
| **III Soil Health and Fertility Management** | | | | | | | | | | | | | | | | | | | | | |
| Soil fertility management | 1 | | 1 | 8 | | 1 | | 9 | | 22 | | 9 | | 31 | | 30 | | 10 | | 40 | | 40 |
| Integrated Nutrient Management | 2 | | 2 | 40 | | 13 | | 53 | | 0 | | 0 | | 0 | | 40 | | 13 | | 53 | | 53 |
| Production and use of organic inputs | 1 | | 1 | 14 | | 1 | | 15 | | 29 | | 2 | | 31 | | 43 | | 3 | | 46 | | 46 |
| **IV Livestock Production and Management** | | | | | | | | | | | | | | | | | | | | | |
| Poultry Management | 3 | | 3 | 26 | | 20 | | 46 | | 17 | | 16 | | 33 | | 43 | | 36 | | 79 | | 79 |
| Piggery Management | 1 | | 1 | 0 | | 0 | | 0 | | 15 | | 12 | | 27 | | 15 | | 12 | | 27 | | 27 |
| Goat Management | 1 | | 1 | 2 | | 18 | | 20 | | 0 | | 12 | | 12 | | 2 | | 30 | | 32 | | 32 |
| **V Home Science/Women empowerment** | | | | | | | | | | | | | | | | | | | | | |
| Value addition | 4 | | 4 | 0 | | 94 | | 94 | | 0 | | 0 | | 0 | | 0 | | 94 | | 94 | | 94 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Income generation activities for empowerment of rural Women | 2 | | 2 | 0 | | 25 | | 25 | | 0 | | 31 | | 31 | | 0 | | 56 | | 56 | | 56 |
| **VII Plant Protection** | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Pest Management | 2 | | 2 | 43 | | 6 | | 49 | | 3 | | 0 | | 3 | | 46 | | 6 | | 52 | | 52 |
| Integrated Disease Management | 2 | | 2 | 48 | | 2 | | 50 | | 1 | | 0 | | 1 | | 49 | | 2 | | 51 | | 51 |
| **VIII Fisheries** | | | | | | | | | | | | | | | | | | | | | | |
| Carp breeding and hatchery management | 1 | | 1 | 20 | | 0 | | 20 | | 5 | | 0 | | 5 | | 20 | | 5 | | 25 | | 25 |
| Carp fry and fingerling rearing | 1 | | 1 | 5 | | 35 | | 40 | | 0 | | 0 | | 0 | | 5 | | 35 | | 40 | | 40 |
| Composite fish culture | 2 | | 2 | 42 | | 0 | | 42 | | 9 | | 0 | | 9 | | 51 | | 0 | | 51 | | 51 |
| Fish processing and value addition | 1 | | 1 | 21 | | 8 | | 29 | | 0 | | 0 | | 0 | | 21 | | 8 | | 29 | | 29 |
| **TOTAL** | 37 | | 37 | 544 | | 311 | | 855 | | 148 | | 110 | | 258 | | 687 | | 426 | | 1113 | | 1113 |

**(B) RURAL YOUTH**

**3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes**

**(*Sp. On means On Campus training programmes sponsored by external agencies)**

| Thematic area | No. of Courses/ Prog | | | Participants | | | | | | | | | | | | | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | General | | | | | | SC/ST | | | | | | Total | | | | | | (x + y) |
| | On | | | | | | | | | | | | | | | | | | | | | |
| | -1 | Sp On* | | Male | | Female | | Total | | Male | | Female | | Total | | Male | | Female | | Total | | |
| | | -2 | (1+2) | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | On | Sp. On | |
| | | | | -4 | -5 | -6 | -7 | (a= 4+6) | (b= 5+7) | -8 | -9 | -10 | -11 | (c= 8+10) | (d= 9+11) | (4+8) | (5+9) | (6+10) | (7+11) | (x= a +c) | (y= b +d) | |
| Sheep and goat rearing | 1 | | 1 | 15 | | 2 | | 17 | | 3 | | 3 | | 6 | | 18 | | 5 | | 23 | | 23 |
| ICT | 1 | | 1 | 22 | | 0 | | 22 | | 0 | | 3 | | 3 | | 22 | | 3 | | 25 | | 25 |
| **TOTAL** | 2 | | 2 | 37 | | 2 | | 39 | | 3 | | 6 | | 9 | | 40 | | 8 | | 48 | | 48 |

**3.3.4. Achievements on Training of Rural Youth in Off Campus including Sponsored Off Campus Training Programmes**

**(*Sp. Off means Off Campus training programmes sponsored by external agencies)**

| Thematic area | No. of Courses/ Prog. | | | Participants | | | | | | | | | | | | | | | | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Off | Sp Off | Total | General | | | | | | SC/ST | | | | | | Total | | | | | | |
| | | | | Male | | Female | | Total | | Male | | Female | | Total | | Male | | Female | | Total | | |
| | | | | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | |
| Mushroom Production | 2 | | 2 | 10 | | 65 | | 75 | | 0 | | 0 | | 0 | | 10 | | 65 | | 75 | | 75 |
| Vermi-culture | 1 | | 1 | 19 | | 13 | | 32 | | 0 | | 0 | | 0 | | 19 | | 13 | | 32 | | 32 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Protected cultivation of vegetable crops | 1 | | 1 | 17 | | 6 | | 23 | | 0 | | 0 | | 0 | | 17 | | 6 | | 23 | | 23 |
| Nursery Management of Horticulture crops | 1 | | 1 | 20 | | 0 | | 20 | | 0 | | 0 | | 0 | | 20 | | 0 | | 20 | | 20 |
| Tailoring and Stitching | 1 | | 1 | 0 | | 54 | | 54 | | 0 | | 0 | | 0 | | 0 | | 54 | | 54 | | 54 |
| Rural Crafts | | | | | | | | | | | | | | | | | | | | | | |
| **TOTAL** | 6 | | 6 | 66 | | 138 | | 204 | | 0 | | 0 | | 0 | | 66 | | 138 | | 204 | | 204 |

**C. Extension Personnel**

**3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes**

**(*Sp. On means On Campus training programmes sponsored by external agencies)**

| **Thematic area** | **No. of Courses/ prog** | | | **Participants** | | | | | | | | | | | | | | | | | **Grand Total** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Total** | **General** | | | | | | **SC/ST** | | | | | | **Total** | | | | | **(x + y)** |
| | **On** | **Sp On*** | | | | | | | | | | | | | | | | | | | |
| | | **-2** | **(1+2)** | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | |
| | **-1** | | | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | **On** | **Sp. On** | |
| | | | | **-4** | **-5** | **-6** | **-7** | **(a= 4+6)** | **(b= 5+7)** | **-8** | **-9** | **-10** | **-11** | **(c= 8+10)** | **(d= 9+11)** | **(4+8)** | **(5+9)** | **(6+10)** | **(7+11)** | **(x= a +c)** | **(y= b +d)** | |
| Productivity enhancement in field crops | 1 | | 1 | 20 | | 5 | | 25 | | 1 | | 0 | | 1 | | 21 | | 5 | | 26 | | 26 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Disease management | 1 | | 1 | 5 | | 0 | | 5 | | 3 | | 0 | | 3 | | 8 | | 0 | | 8 | | 8 |

**3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes**

**(*Sp. Off means Off Campus training programmes sponsored by external agencies)**

| **Thematic area** | **No. of Courses/ prog.** | | | **Participants** | | | | | | | | | | | | | | | | | | **Grand Total** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Off** | **Sp Off *** | **Total** | **General** | | | | | | **SC/ST** | | | | | | **Total** | | | | | | |
| | | | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | **Male** | | **Female** | | **Total** | | |
| | | | | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | **Off** | **Sp Off*** | |
| Productivity enhancement in field crops | 1 | | 1 | 20 | | 0 | | 20 | | 0 | | 0 | | 0 | | 20 | | 0 | | 20 | | 20 |
| **TOTAL** | **50** | **3** | **53** | **736** | **5** | **474** | **14** | **1230** | **15** | **141** | **11** | **107** | **22** | **284** | **7** | **896** | **22** | **618** | | **1514** | **22** | **1536** |

**Note: Please furnish the details of above training programmes as Annexure in the proforma given below**

**Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel**

| Discipline | Area of training | Title of the training programme | Date (From – to) | Duration in days | Venue | Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | General participants | | | SC/ST | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M | F | T | M | F | T | M | F | T |
| Crop production | Seed certification | 1.Quality seed production of major cereal crops with special emphasis on seed | 21st -23rd March, 2016 | 3 | On campus | **EP** | 12 | - | 12 | 8 | - | 8 | 20 | - | 20 |
| Horticulture | Production of low volume and high value crops | 1.Production technology of summer vegetable | 3rd March, 2016 | 1 | On campus | F/FW | 16 | - | 16 | - | 6 | 6 | 16 | 6 | 22 |
| Plant protection | Integrated pest and disease management | 1.Safe use of chemical pesticides in agriculture | 5th March, 2016 | 1 | On campus | | 17 | - | 5 | - | 5 | 5 | 17 | 5 | 22 |
| Animal Science | Disease management | 1.Diseases of pigs with special reference to rota viral diarrhoea and swine fever | 18th March, 2016 | 1 | On campus | EP | 5 | - | 5 | 3 | - | 3 | 8 | - | 8 |
| | Livestock management | 2.Small scale livestock and poultry farming as a means of livelihood security for unemployed youth | 26th March, 2016 | 1 | On campus | | 17 | 3 | 20 | 3 | 3 | 6 | 20 | 6 | 26 |
| Fishery Science | Integrated fish farming | 1.Integrated fish farming system, fish health problems and their control measure | 15th & 16th March, 2016 | 2 | On campus | F/FW | 19 | 5 | 24 | 2 | - | 2 | 21 | 5 | 26 |
| Total | | 6 | | | | | **86** | **8** | **82** | **16** | **14** | **30** | **102** | **22** | **124** |

**Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel**

| Discipline | Area of training | Title of the training programme | Date (From – to) | Duration in days | Venue | Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | General participants | | | SC/ST | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | M | F | T | M | F | T | M | F | T |
| Crop production | Seed certification | 1.Quality seed production of rice and certification procedure | 26th June,2015 | 1 | Budhbaria Lahing | **F/FW** | 51 | - | 51 | - | - | - | 51 | - | 51 |
| | | 2.Quality seed production of rice and certification procedure | 27th June,2015 | 1 | Shukanjan | **F/FW** | 33 | 1 | 34 | - | - | - | - | - | 34 |
| | | 3.Quality seed production of rice and certification procedure | 4th August,2015 | 1 | Pirakata | **F/FW** | 20 | 6 | 26 | - | - | - | 20 | 6 | 26 |
| | | 4. Quality seed production of rice and certification procedure | 8th August,2015 | 1 | Nakachari | **F/FW** | 32 | 11 | 43 | - | - | - | 32 | 11 | 43 |
| | | 5.Management of quality seed production of pulse crops | 31st March,2016 | 1 | Shagunpara | **F/FW** | 18 | 6 | 24 | 3 | - | 3 | 21 | 6 | 27 |
| Horticulture | Cultivation of fruits | 1.Scientific cultivation of banana | 22nd July, 2015 | 1 | Chungi | **F/FW** | 1 | - | 1 | 15 | 14 | 29 | 16 | 14 | 30 |
| | Production and management technology of Spice | 2.organic cultivation of blackpepper and betelvine | 31st-1st August, 2015 | 2 | Potiagaon | **F/FW** | 11 | 12 | 23 | - | - | - | - | - | 23 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Production technology of plantation crops | 3.Scientific cultivation and processing of arecanut | 14th August,2015 | 1 | Nagabat | **F/FW** | 8 | 12 | 20 | 23 | 6 | 29 | 31 | 18 | 49 |
| | Protected cultivation of vegetables | 4.Advanced production technology for off season vegetables | 22nd September,2015 | 1 | Puranimotia | **RY** | 17 | 6 | 23 | - | - | - | 17 | 6 | 23 |
| | Cultivation of fruits | 5.Commercial cultivation of litchi | 19th -20th November,2015 | 2 | Khonamukh | **F/FW** | 25 | - | 25 | - | - | - | - | - | 25 |
| | Nursery raising | 6.Nursery raising techniques of winter vegetables | 25th January,2016 | 1 | Khatowal | **F/FW** | 28 | - | 28 | - | | - | - | - | 28 |
| | Flower cultivation | 7.Commercial cultivation of flowers | 9th March,2016 | 1 | Tengabari | **RY** | 20 | - | 20 | - | - | - | 20 | - | 20 |
| Soil Science | Nutrient management | 1.Integrated nutrient management in Sali rice | 20th -21st July, 2015 | 2 | Khonamukh | **F/FW** | 21 | 6 | 27 | - | - | - | 21 | 6 | 27 |
| | Nutrient management | 2. Integrated nutrient management in Sali rice | 31st July-1st August,2015 | 2 | Pirakota | **F/FW** | 19 | 7 | 26 | - | - | - | 19 | 7 | 26 |
| | Production and use of organic inputs | 3.Production technology of vermicompost, Enriched compost and Azolla | 10th August,2015 | 1 | Balijan Shyamgaon | **F/FW** | 14 | 1 | 15 | 29 | 2 | 31 | 43 | 3 | 46 |
| | Soil fertility management | 4.Soil fertility management | 11th August,2015 | 1 | Dangdhora | **F/FW** | 8 | 1 | 9 | 22 | 9 | 31 | 30 | 10 | 40 |
| | Production and use of organic inputs | 5. Production technology of vermicompost, Enriched compost and Azolla | 23rd September,2015 | 1 | Puranimotia | **F/FW** | 19 | 13 | 32 | - | - | - | 19 | 13 | 32 |
| | Production | 6.Management of | 30th | 1 | Boragaon | **F/FW** | 2 | 39 | 42 | 8 | 2 | 10 | 10 | 42 | 52 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | technology of plantation crops | young tea | October,2015 | | | | | | | | | | | | | |
| Plant Protection | | 1.Mushroom cultivation for self employment | 16th February,2016 | 1 | Maibelia | **RY** | 1 | 34 | 35 | - | - | - | 1 | 34 | 35 |
| | | 2.Integrated pest and disease management in banana | 17th February,2016 | 1 | Bamunpukhuri | **F/FW** | 19 | 6 | 25 | 3 | - | 3 | 22 | 6 | 28 |
| | | 3.Integrated pest and disease management in rice | 23th -24th February,2016 | 2 | Birinabari | **F/FW** | 22 | 2 | 24 | 1 | - | 1 | 23 | 2 | 25 |
| | | 4.Mushroom cultivation var. Oyster | 25th February,2016 | 1 | Tengabari | **RY** | 9 | 31 | 40 | - | - | - | 9 | 31 | 40 |
| | | 5.Integrated pest and disease management in rabi vegetables | 8th -9th March,2016 | 2 | Tengabari | **F/FW** | 26 | - | 26 | - | - | - | 26 | - | 26 |
| | | 6.Integrated pest and disease management in assam lemon | 10th March,2016 | | Tengabari | **F/FW** | 24 | - | 24 | - | - | - | 24 | - | 24 |
| Animal Science | Poultry management | 1.Commercial broiler farming | 9th February,2016 | 1 | Allengmora | **F/FW** | 3 | - | 3 | 16 | 6 | 22 | 19 | 6 | 25 |
| | Poultry management | 2.Commercial layer farming | 1st March, 2016 | 1 | Chalihagaon | **F/FW** | 15 | 13 | 28 | 1 | - | 1 | 16 | 13 | 29 |
| | Livestock management | 3.Scientific management of goat | 16th March, 2016 | 1 | Kaliapani | **F/FW** | 8 | 7 | 15 | 8 | - | 8 | 16 | 15 | 31 |
| | Livestock management | 4.Scientific management of pig | 20th March, 2016 | 1 | Ujani Majuli | **F/FW** | 2 | 18 | 20 | - | 12 | 12 | 2 | 30 | 32 |
| Home Science | Value addition | 1.Production of value added products from locally y available | 7th July,2015 | 1 | Kaliapani block | **RY** | - | 21 | 21 | - | 1 | 1 | - | 22 | 22 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | fruits | | | | | | | | | | | | | |
| | Entrepreneurship development | 2.Entrepreneurship development for economic upliftment | 12th August,2015 | 1 | Teok | **FW** | - | 24 | 24 | - | - | - | - | 24 | 24 |
| | Value addition | 3.Production of value added guava product | 25th August,2015 | 1 | Changmai gaon | **FW** | - | 19 | 19 | - | - | - | - | 19 | 19 |
| | Value addition | 4.Production of value added products from locally y available fruits and vegetables | 29-30th August,2015 | 2 | Megha food product, Jorhat | **FW** | - | 15 | 15 | - | 6 | 6 | - | 21 | 21 |
| | Value addition | 5.Value addition of fruits and vegetables | 20th November,2015 | 1 | Khonamukh | **FW** | 15 | 10 | 25 | - | - | - | 15 | 10 | 25 |
| | Food processing | 6. Food processing and preservation | 28th January,2016 | 1 | Maibelia | **FW** | - | 29 | 29 | - | - | - | - | 29 | 29 |
| | Income generating activities for empowerment of rural women | 7.Embellishment of woven fabrics | 8th March, 2016 | 1 | Tengabari | **RY** | - | 54 | 54 | - | - | - | - | - | - |
| | Income generating activities for empowerment of rural women | 8.Commercial weaving | 22nd March,2016 | 1 | Dungdhora | **FW** | - | 1 | 1 | - | 31 | 31 | - | 32 | 32 |
| Fishery Science | Carp fry and fingerling rearing | 1.Carp fry and fingerling rearing of Indian Major carps | 6th April, 2015 | 1 | Dagaon | **F/FW** | 8 | 35 | 43 | - | - | - | 8 | 35 | 43 |
| | Production management | 2.Carp culture practices using multiple stocking and multiple harvesting | 1st February,2016 | 1 | Allengmora | **RY** | 2 | - | 2 | 20 | 4 | 24 | 22 | 4 | 26 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fish breeding and hatchery management | 3.Monoculture of Magur and its breeding techniques | 8th February,2016 | 1 | Maibelia | **RY** | 24 | 25 | 49 | 1 | - | 1 | 25 | 25 | 50 |
| | Production management | 4.Species combination ratio in composite fish culture | 21st March, 2016 | 1 | Churamoni Gaon | **F/FW** | 24 | 2 | 26 | - | - | - | 25 | 2 | 26 |
| | Fish processing and value addition | 5.Fish processing and value addition of fishery products | 31st March, 2016 | 1 | Pirakata | **F/FW** | 11 | 15 | 26 | - | - | - | 11 | 15 | 26 |
| Total | | 41 | | | | | **560** | **482** | **1043** | **150** | **93** | **243** | **614** | **517** | **1240** |

**(D) Vocational training programmes for Rural Youth**

| **Crop / Enterprise** | **Date (From – To)** | **Duration (days** | **Area of training** | **Training title*** | **No. of Participants** | | | | | | | | | **Impact of training in terms of Self employment after training** | | | | **Whether Sponsored by external funding agencies** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **General** | | | **SC/ST** | | | **Total** | | | | | | | |
| | | | | | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** | **Type of enterprise ventured into** | **Number of units** | **Number of persons employed** | **Avg. Annual income in Rs. generated through the enterprise** | |
| Fabric printing | 10th March - 16th March,2016 | 7 days | Fabric Printing | Fabric Printing | - | 8 | 8 | - | 19 | 19 | - | 27 | 27 | Fabric Printing unit | 1 | 2 | 45000.00 | - |

*training title should specify the major technology /skill transferred

**Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)**

| On/ Off/ Vocational | Beneficiary group (F/ FW/ RY/ EP) | Date (From-To) | Duration (days) | Discipline | Area of training | Title | No. of Participants | | | | | | | | | Sponsoring Agency | Amount of fund received (Rs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | General | | | SC/ST | | | Total | | | | |
| | | | | | | | M | F | T | M | F | T | M | F | T | | |
| Off | F/FW | 20th May,2015 | 1 | Agronomy | Seed certification | Training on hybrid rice | 7 | - | 7 | 18 | - | 18 | 25 | - | 25 | State Department of Agriculture, Jorhat under RKVY | 8000.00 |
| Off | EP and input dealers | 4-5th Nov, 2015 | 2 | Agronomy | Oilseed production technology | Training on oilseed crops for extension officials and input dealers | 14 | - | 14 | 6 | - | 6 | 20 | - | 20 | Funded by NAEP & NMOOP | 16000.00 |
| Off | F/FW | 26th Nov, 2015 | 1 | Interdisciplinary | - | Training on Agriculture based livelihood development in flood affected areas | 16 | - | 16 | 6 | - | 6 | 22 | - | 22 | funded by NEADS(NGO) | 5000.00 |
| **Total** | **3** | | | | | | **37** | | **37** | **30** | | **30** | **67** | | **67** | | 29000 |

**3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2015-16**

| Sl. No. | Extension Activity | Topic | Date and duration | No. of activities | Participants | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | General (1) | | | SC/ST (2) | | | Extension Officials (3) | | | Grand Total (1+2) | | |
| | | | | | M | F | T | M | F | T | M | F | T | M | F | T |
| 1. | Advisory services | | | | | | | | | | | | | | | |
| 2. | Diagnostic visit | - | 2015-16 1 day each | **17** | **12** | **18** | **30** | **25** | **30** | **55** | **-** | **-** | **-** | **37** | **48** | **85** |
| 3. | Field day | 1.Integrated nutrient management in Sali rice | 28th Nov, 2015 | 1 | 34 | 7 | 41 | - | - | - | - | - | - | 34 | 7 | 41 |
| | | 2.Species combination and ratio in composite fish culture | 3rd Feb, 2016 | 1 | 20 | 12 | 32 | 6 | 11 | 17 | - | - | - | 26 | 23 | 49 |
| | | 3.Cluster FLD on rabi pulses(pea) | 5th Feb, 2016 | 1 | 8 | - | 8 | 18 | - | 18 | - | - | - | 26 | - | 26 |
| | | 4.Cluster FLD on rabi pulses(Lentil) | 5th Feb, 2016 | 1 | 38 | - | 38 | 12 | - | 12 | - | - | - | 50 | - | 50 |
| | | 5.Cluster FLD on rabi pulses(toria) | 6th Feb, 2016 | 1 | 38 | - | 40 | 6 | 4 | 10 | - | - | - | 44 | 6 | 50 |
| | | 6.Mushroom cultivation var. Oyster | 26th Feb, 2016 | 1 | 12 | 21 | 33 | - | - | - | - | - | - | 33 | - | 33 |
| | | 7.Productive performance of Kalinga brown bird | 2nd March,2016 | 1 | - | 16 | 16 | - | 1 | 1 | - | - | - | - | 17 | 17 |
| | | 8.Field day on water melon cultivation | 19th March,2016 | 1 | 18 | 7 | 25 | - | - | - | - | - | - | 18 | 7 | 25 |
| | | 9.Backyard nursery pond management for the production of stunted fingerlings | 21st March,2016 | 1 | 22 | 2 | 24 | - | - | - | - | - | - | 22 | 2 | 24 |
| | | 10.Field day on integrated duck fish farming | 31st March,2016 | 1 | 14 | 35 | 49 | - | - | - | - | - | - | 14 | 35 | 49 |
| 4. | Group Discussion | Technology showcasing kharif and rabi, Three tier pig fish poultry, FLDs , OFTS | 2015-16 1 day each | 12 | 110 | - | 110 | 60 | 10 | 70 | 5 | - | 5 | 175 | 10 | 185 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5. | Kishan Gosthi | - | | | | | | | | | | | | | | |
| | Kishan Mela | 1.Technology mela cum Krishak Samaroh | 11th July, 2015 | 1 | 155 | 35 | 190 | 69 | 21 | 90 | 5 | | 5 | 229 | 66 | 295 |
| | | 2.Kisan Mela and Soil Health Card distribution | 5th December, 2015 | 1 | 182 | 65 | 249 | 24 | 16 | 40 | | | | 227 | 62 | 289 |
| 6. | Film show | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7. | SHG formation | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Exhibition | Kisan Mela on the occasion of Jai Kisan Jai Vigyan Diwas | 23rd December,2015 | 1 | 128 | 46 | 176 | 18 | 5 | 23 | - | - | | 167 | 32 | 199 |
| 9. | Scientists visit to farmers fields | - | 2015-16 | 190 | | | | | | | | | | | | |
| 10. | Plant/ Animal Health camp | | | | | | | | | | | | | | | |
| 11. | Farm science club | | | | | | | | | | | | | | | |
| 12. | Ex-trainee Sammelan | | | | | | | | | | | | | | | |
| 13. | Farmers seminar/ workshop | | | | | | | | | | | | | | | |
| 14. | Method demonstration | Method of fertilizer application in arecanut and coconut | 12th May,2015 | 1 | 14 | - | 14 | 32 | - | 32 | - | - | - | 46 | - | 46 |
| | | Preparation of value added products of Guava | 12th July,2015 | 1 | 22 | 2 | 24 | - | - | - | - | - | - | 22 | 2 | 24 |
| | | Vermicompost preparation | 30th August,2015 | 1 | 14 | - | 14 | 32 | - | 32 | - | - | - | 46 | - | 46 |
| | | Nursery raising technique | 10th Oct, 2015 | 1 | - | - | - | 33 | - | 33 | - | - | - | 33 | - | 33 |
| | | Production of value added products from fruits and vegetables | 15th Nov,2015 | 1 | 56 | - | 56 | 2 | - | 2 | - | - | - | 58 | - | 58 |
| | | Application of KMnO4 powder in pond water for prevention of ulcer diseases in carps | 1st Feb, 2016 | 1 | 35 | 5 | 40 | - | - | - | - | - | - | 35 | 5 | 40 |
| | | Mushroom production | 25th Feb,2016 | 1 | 18 | 7 | 25 | - | - | - | - | - | - | 18 | 7 | 25 |
| 15. | Celebration of important days | 1.World environment day | 5th June,2015 | 1 | 45 | 35 | 80 | 9 | 11 | 20 | - | - | - | 54 | 56 | 110 |
| 16. | | 2.World Soil Day | 5th Dec,2015 | 1 | 182 | 65 | 249 | 24 | 16 | 40 | | | | 227 | 62 | 289 |
| 17. | Exposure visits | Farmers day at Titabor | 11th Nov,2015 | 1 | | | | | | | | | | | | |
| 18. | Electronic media (CD/DVD) | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19. | Extension literature | | | | | | | | | | | | | | | |
| 20. | Newspaper coverage | 5 | - | | | | | | | | | | | | | |
| 21. | Popular articles | Udyan sashyar ropan samagri prastutkaranar koushal | 16th May,2015 | 1 | | | | | | | | | | | | |
| | | *Sitkalin sak pachalir kheti. Ghare-Pathare Pashekia krishi patrika* | 16th September,2015 | 1 | | | | | | | | | | | | |
| | | *Broccolir krishi koushal.. Ghare-Pathare Pashekia krishi patrika* | 1st November,2015 | 1 | | | | | | | | | | | | |
| | | *Maasor bibhinno rog aaru eyar pratikar* | 24th Dec, 2015 | 1 | | | | | | | | | | | | |
| | | *Somonnito gahori maas paalon aaru eyar labhalabh* | 4th June, 2015 | 1 | | | | | | | | | | | | |
| | | *Somonniti haah maas palon aaru eyar labhalaabh* | 6th May, 2015 | 1 | | | | | | | | | | | | |
| 22. | Radio talk | 1.Pond management in summer | 15th June, 2015 | 1 | | | | | | | | | | | | |
| | | Quiz programme | 26th June, 2015 | | | | | | | | | | | | | |
| | | 2.Quiz programme for farmers | 18th Aug, 2015 | 1 | | | | | | | | | | | | |
| | | 3.Quiz programme for farmers | 30th Jan, 2016 | 2 | | | | | | | | | | | | |
| | | 4. Organic plant protection management in horticultural crop | 10th Oct, 2015 | 1 | | | | | | | | | | | | |
| | | 5. Benefits of using soil health card | 15th July, 2015 | 1 | | | | | | | | | | | | |
| | | Discussion on entrepreneurship development for rural youth farmer | 14th Dec, 2015 | 1 | | | | | | | | | | | | |
| | | Safe use of chemical pesticides in Agriculture | 28th Jan, 2016 | 1 | | | | | | | | | | | | |
| 22. | TV talk | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 23. | Training manual | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 24. | Soil health camp | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 25. | Awareness camp | 1.Awarness progrmme on food security. | 1st March, 2016 | 1 | 12 | 21 | 33 | - | - | - | - | - | - | 33 | - | 33 |
| | | 2.Awarness programme on safe use of chemical pesticides in agriculture | 4th March, 2016 | 1 | 20 | 12 | 32 | 6 | 11 | 17 | - | - | - | 26 | 23 | 49 |
| 26. | Lecture delivered | 1.Farmers right | 31st March, 2016 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | as resource person | 2. Scope of Agriculture in sand and silt deposited area. | 26th Nov, 2016 | | | | | | | | | | | | | |
| | | 3. Flood and drought proofing. | 26th Nov, 2016 | | | | | | | | | | | | | |
| | | 4. Suitable cropping system for flood affected area. | 26th Nov, 2016 | | | | | | | | | | | | | |
| | | 5. Management of Fisheries in flood affected areas. | 26th Nov, 2016 | | | | | | | | | | | | | |

### 3.5 Production and supply of Technological products during 2015-16

**A. SEED MATERIALS**

| Major group/class | Crop | Variety | Quantity (qt) | Value (Rs.) | Number of recipient/ beneficiaries | | |
|---|---|---|---|---|---|---|---|
| | | | | | General | SC/ST | Total |
| **CEREALS** | Paddy | Ranjit | 24.5 | 80850.00 | Ready to sale | | |
| | | Mashuri | 6.3 | 20790.00 | | | |
| | | Gitesh | 5.72 | 18876.00 | 1 | 1 | 1 |
| | | SS 1 | 0.85 | 2805.00 | 1 | 1 | 1 |
| | | Ketekijoha | 2.77 | 9141.00 | 1 | 1 | 1 |
| | | KDML | 1.79 | 5907.00 | Ready to sale | | |
| | | TTB | 1.74 | 5742.00 | | | |
| | | Black rice | 1.10 | 3630.00 | | | |
| | | Badam | 0.30 | 990 | | | |
| | Maize | Hiahell | 5.0 q | 7500.00 | Used in KVK farm | | |
| **OILSEEDS** | Sesamum | Kaliabor local | 8 kg | 880.00 | 1 | 1 | 1 |
| **PULSES** | White Rajmah | | 21 kg | 2100.00 | Ready to sale | | |
| | Dolichos bean | | 2.25 kg | 1350.00 | | | |
| | White frenchbean | | 1 kg | 500.00 | | | |
| | Blackgram | Shekhar-1 | 11 kg | 1210.00 | | | |
| | Green gram | Pratap | 3 kg | 330.00 | | | |
| **VEGETABLES** | Brinjal | Longai | 0.5 kg | 1000.00 | | | |
| **FLOWER CROPS** | Marrigold | Pusa Narengi | 200 gm | 400.00 | | | |

**A1. SUMMARY of Production and supply of Seed Materials during 2015-16**

| Sl. No. | Major group/class | Quantity (ton.) | Value (Rs.) | Number of recipient/ beneficiaries | | |
|---|---|---|---|---|---|---|
| | | | | **General** | **SC/ST** | **Total** |
| 1 | CEREALS - Paddy | | | | | |
| | Ranjit | 24.5 | 80850.00 | Ready to sale | | |
| | Mashuri | 6.3 | 20790.00 | | | |
| | Gitesh | 5.72 | 18876.00 | 1 | 1 | 1 |
| | SS 1 | 0.85 | 2805.00 | 1 | 1 | 1 |
| | Ketekijoha | 2.77 | 9141.00 | 1 | 1 | 1 |
| | KDML | 1.79 | 5907.00 | Ready to sale | | |
| | TTB | 1.74 | 5742.00 | | | |
| | Black rice | 1.10 | 3630.00 | | | |
| | Badam | 0.30 | 990 | | | |
| | Maize Hishell | 5.0 | 7500.00 | **Used in KVK farm** | | |
| 2 | **OILSEEDS** | | | | | |
| | **Sesamum** var.Kaliabor local | 8 kg | 880.00 | 1 | 1 | 1 |
| 3 | PULSES | | | | | |
| | White Rajmah | 21 kg | 2100.00 | **Used in KVK farm** | | |
| | Dolichos bean | 2.25 kg | 1350.00 | | | |
| | White frenchbean | 1 kg | 500.00 | | | |
| | Blavkgram | 11 kg | 1210.00 | | | |
| | Green gram | 3 kg | 330.00 | | | |
| 4 | VEGETABLES | | | | | |
| | Brinjal (Longai) | 0.5 kg | 1000.00 | **Used in KVK farm** | | |
| 5 | FLOWER CROPS | | | | | |
| | Marrigold (Pusa Narengi) | 200 gm | 400.00 | **Used in KVK farm** | | |
| 6 | OTHERS | | | | | |
| **TOTAL** | | | | | | |

**B. Production of Planting Materials (Nos. in lakh)**

| Major group/class | Crop | Variety | Numbers (In Lakh) | Value (Rs.) | Number of recipient beneficiaries | | |
|---|---|---|---|---|---|---|---|
| | | | | | General | SC/ST | Total |
| Fruits | Guava | L-49, Allahabad safeda | 70 nos. (14 nos sold) | 3500.00 | 3 | 1 | 4 |
| | Banana | *Amrit sagar, Grand Naine* | 616 nos. | 6592.00 | 2 | - | 2 |
| | Litchi | *Tezpur type* | 5 nos | 400.00 | Planted in KVK farm | | |
| | | Sahi | 5 nos. | 400.00 | | | |
| | | *Bedana* | 4 nos. | 400.00 | | | |
| | | *Rose* | 1 no. | 80.00 | | | |
| | | *Yagoda* | 1 no. | 80.00 | | | |
| | Water mellon | *Sugar baby* | 200 nos. of seedling | 200.00 | | | |
| | Strawberry | *Sweet Charlie* | 50 nos. of suckers | 250.00 | | | |
| | Pine apple | *Kew* | 500 nos. of suckers | 2500.00 | | | |
| Spices | Turmeric | *Megha turmeric-1* | 4.65 q | 13950.00 | | | |
| Ornamental Plants | Gerbera | *Red Gem* | 1000 suckers(200 nos. sold) | 3000.00 | | | |
| | Tuberose | *Subhashini* | 500 bulbs | 1000.00 | | | |
| | Gladiolus | *Novalux* | 100 corms | 500.00 | | | |
| VEGETABLES | Tomato | *Arjuna, Nayak* | 500 nos. of seedling (170 nos. sold) | 500.00 | | | |
| | Brinjal | *Longai* | 500 nos. of seedling (100 nos. sold) | 500.00 | | | |
| | Broccoli | *Fiesta* | 1000 nos. of seedling | 1000.00 | | | |
| | Knolkhol | Irani | 1000 nos. of seedling | 1000.00 | | | |
| | Cabbage | Pragati plus | 2000 nos. of seedling | 2000.00 | | | |
| | Couliflower | P5-666 | 1000 nos. of seedling | 1000.00 | | | |
| | Chilli | BSS -918 | 100 nos. seedling | 100.00 | | | |
| | Capsicum | California wonder | 700 nos. seedling | 700.00 | | | |
| | Pumpkin | Arjuna, Bhima | 200 nos. seedling | 400.00 | | | |
| Fodder crops | Hybrid napier | | 4000 nos. of setts (670 nos. sold) | 2000.00 | Used in KVK Farm | | |
| | Congo signal | | 1000 slips (120 nos. sold) | 1000.00 | 3 | 2 | 5 |
| | Setaria | | 500 nos. slips | 500.00 | | | |

**B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2015-16**

| Major group/class | Variety | Numbers (In Lakh) | Value (Rs.) | Number of recipient beneficiaries | | |
|---|---|---|---|---|---|---|
| | | | | General | SC/ST | Total |
| **Fruits** | | | | | | |
| Guava | L-49, Allahabad safeda | 70 nos. (14 nos sold) | 3500.00 | 3 | 1 | 4 |
| Banana | *Amrit sagar, Grand Naine* | 616 nos. | 6592.00 | 2 | - | 2 |
| Litchi | *Tezpur type* | 5 nos | 400.00 | Planted in KVK farm | | |
| | Sahi | 5 nos. | 400.00 | | | |
| | *Bedana* | 4 nos. | 400.00 | | | |
| | *Rose* | 1 no. | 80.00 | | | |
| | *Yagoda* | 1 no. | 80.00 | | | |
| Water mellon | *Sugar baby* | 200 nos. of seedling | 200.00 | | | |
| Strawberry | *Sweet Charlie* | 50 nos. of suckers | 250.00 | | | |
| Pine apple | *Kew* | 500 nos. of suckers | 2500.00 | | | |
| **Spices** | | | | | | |
| Turmeric | *Megha turmeric-1* | 4.65 q | 13950.00 | | | |
| **Ornamental Plants** | | | | | | |
| Gerbera | *Red Gem* | 1000 suckers(200 nos. sold) | 3000.00 | | | |
| Tuberose | *Subhashini* | 500 bulbs | 1000.00 | | | |
| Gladiolus | *Novalux* | 100 corms | 500.00 | | | |
| **VEGETABLES** | | | | | | |
| Tomato | *Arjuna, Nayak* | 500 nos. of seedling (170 nos. sold) | 500.00 | Used in KVK Farm | | |
| Brinjal | *Longai* | 500 nos. of seedling (100 nos. sold) | 500.00 | | | |
| Broccoli | *Fiesta* | 1000 nos. of seedling | 1000.00 | | | |
| Knolkhol | Irani | 1000 nos. of seedling | 1000.00 | | | |
| Cabbage | Pragati plus | 2000 nos. of seedling | 2000.00 | | | |
| Couliflower | P5-666 | 1000 nos. of seedling | 1000.00 | | | |
| Chilli | BSS -918 | 100 nos. seedling | 100.00 | | | |
| Capsicum | California wonder | 700 nos. seedling | 700.00 | | | |
| Pumpkin | Arjuna, Bhima | 200 nos. seedling | 400.00 | | | |
| **Fodder crops** | Hybrid napier | 4000 nos. of setts (670 nos. sold) | 2000.00 | Planted in KVK farm | | |
| | Congo signal | 1000 slips (120 nos. sold) | 1000.00 | 3 | 2 | 5 |
| | Setaria | 500 nos. slips | 500.00 | Planted in KVK farm | | |
| **Total** | | | | | | |

**C. Production of Bio-Products during 2015-16**

| Major group/class | Product Name | Species | Quantity | | Value (Rs.) | Number of Recipient /beneficiaries | | |
|---|---|---|---|---|---|---|---|---|
| | | | No | (qt) | | General | SC/ST | Total |
| **BIOAGENTS** | | | | | | | | |
| **BIOFERTILIZERS** | | | | | | | | |
| 1.Vermicompost | **Vermicompost** | | | **60 q (6.745 q sold)** | **60000.00** | **3** | **1** | **4** |
| 2.Vermiworm | Vermiworm | ***Eisenia foetida*** | **-** | **20 kg (9.65 kg sold)** | **40000.00** | **3** | **2** | **5** |
| 3 | **Compost** | | | **5 q** | **500.00** | **2** | **2** | **4** |
| **BIO PESTICIDES** | | | | | | | | |

**C1. SUMMARY of production of bio-products during 2015-16**

| Sl. No. | Product Name | Species | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | Total number of Recipient beneficiaries |
|---|---|---|---|---|---|---|---|---|
| | | | Nos | (kg) | | General | SC/ST | |
| 1 | BIOAGENTS | | | | | | | |
| 2 | BIO FERTILIZERS | *1.Vermicompost*<br>*2. Vermiworm (Eisenia foetida)*<br>*3.Azolla* | | 60000 kg<br>20 kg (9.65 kg sold)<br>500 kg | 60000.00<br>40000.00<br>500.00 | 8 | 5 | 13 |
| 3 | BIO PESTICIDE | - | - | - | - | - | - | - |
| | **TOTAL** | | | | | | | **13** |

**D. Production of livestock during 2015-16**

| Sl. No. | Type of livestock | Breed | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | |
|---|---|---|---|---|---|---|---|---|
| | | | (Nos) | Kgs/Lit | | General | SC/ST | Total |
| 1 | Cattle/ Dairy | HF | 2 | 1590.545 lit | 63622.00 | 10 | 1 | 11 |
| 2 | Goat | Beetal buck | 8 (2 nos. sold) | | | 1 | 1 | 2 |
| | Kid | Beetal buck | 8 (6 nos. sold) | - | 20000.00 | 3 | 0 | 3 |
| | Goat servicing | | 19 | - | 950.00 | 14 | 5 | 19 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | Piggery | Hempshire | 7 (2 nos sold) | | 60000.00 | - | 2 | 2 |
| | Piglet | Hempshire | 26 (24 nos. sold) | | 64200.00 | 8 | 1 | 9 |
| | | T & D | 5 (1 no. sold) | | 2000.00 | - | 1 | 1 |
| | Pig servicing | | 4 | | 40000.00 | 2 | 2 | 4 |
| | Piglet | T & D | 7 (6 nos. sold) | - | 17500.00 | 2 | 2 | 4 |
| 4 | Poultry | BV 300 birds | 18 sold | | 3660.00 | 2 | 0 | 2 |
| | | BV 300 eggs | 1169 | | 7192.00 | 25 | 50 | 75 |
| | | Kalinga brown birds | 20 (3 nos. sold) | | 1820.00 | 1 | 1 | 2 |
| | | Kalinga brown chicks | 488 (sold) | | 40360.00 | 75 | 50 | 125 |
| | | Kalinga brown eggs | 51 (for hatching) | | 765.00 | 15 | 10 | 25 |
| | | | 112 (Table egg) | | 672.00 | 20 | 2 | 22 |
| | | Banraja birds | 14 | | 5616.00 | 3 | 2 | 5 |
| | | Banraja chicks | 101 | | 11996.00 | 20 | 10 | 30 |
| | | Banraja eggs | 537 (for hatching) | | 6615.00 | 20 | 5 | 25 |
| | | | 128 (Table egg) | | 768.00 | 6 | 2 | 8 |
| | | Kamrupa birds | 12 (sold) | | 4186.00 | 3 | 1 | 4 |
| | | Kamrupa chicks | 261 (sold) | | 19410.00 | 25 | 20 | 45 |
| | | Japanese quail birds | 226 (200 nos. sold) | | 15220.00 | 35 | 20 | 55 |
| | | Japanese quail eggs | 2061 (sold) | | 4122.00 | 75 | 26 | 101 |
| | | Duck-Khaki campbell | 54 (24 sold) | | 7200.00 | 3 | 3 | 6 |
| | | Duckling-Khaki campbell | 280 (279 nos. sold) | | 25920.00 | 32 | 13 | 45 |
| | | Khaki Campbell duck egg | 126 (For hatching) | | 1890.00 | 11 | 4 | 15 |
| | | | 79 (Table egg) | | 553.00 | 7 | 5 | 12 |
| | | Vigova super M duck | 11 (9 nos. sold) | | 4500.00 | 5 | 1 | 6 |
| 5 | Fisheries | Indan Major carp and exotic | - | 29.1 | 5820.00 | 15 | 5 | 20 |

**D1. SUMMARY of production of livestock during 2015-16**

| Sl. No. | Livestock category | Breed | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | Total number of Recipient beneficiaries |
|---|---|---|---|---|---|---|---|---|
| | | | Nos | (kg) | | General | SC/ST | |
| 1 | CATTLE | Dairy (HF) | 2 | Milk-590.545 | 63622.00 | 10 | 1 | 11 |
| 2 | SHEEP & GOAT | Goat (Beetal buck) | 8 (2 nos. sold) | | | 1 | 1 | 2 |
| | | Kid (Beetal buck) | 8 (6 nos. sold) | | | 3 | 0 | 3 |
| | | Goat servicing | 19 | | | 14 | 5 | 19 |
| 3 | POULTRY | BV 300 birds | 18 sold | | 3660.00 | 2 | 0 | 2 |
| | | BV 300 eggs | 1169 | | 7192.00 | 25 | 50 | 75 |
| | | Kalinga brown birds | 20 (3 nos. sold) | | 1820.00 | 1 | 1 | 2 |
| | | Kalinga brown chicks | 488 (sold) | | 40360.00 | 75 | 50 | 125 |
| | | Kalinga brown eggs | 51 (for hatching) | | 765.00 | 15 | 10 | 25 |
| | | | 112 (Table egg) | | 672.00 | 20 | 2 | 22 |
| | | Banraja birds | 14 | | 5616.00 | 3 | 2 | 5 |
| | | Banraja chicks | 101 | | 11996.00 | 20 | 10 | 30 |
| | | Banraja eggs | 537 (for hatching) | | 6615.00 | 20 | 5 | 25 |
| | | | 128 (Table egg) | | 768.00 | 6 | 2 | 8 |
| | | Kamrupa birds | 12 (sold) | | 4186.00 | 3 | 1 | 4 |
| | | Kamrupa chicks | 261 (sold) | | 19410.00 | 25 | 20 | 45 |
| | | Japanese quail birds | 226 (200 nos. sold) | | 15220.00 | 35 | 20 | 55 |
| | | Japanese quail eggs | 2061 (sold) | | 4122.00 | 75 | 26 | 101 |
| | | Duck-Khaki campbell | 54 (24 sold) | | 7200.00 | 3 | 3 | 6 |
| | | Duckling-Khaki campbell | 280 (279 nos. sold) | | 25920.00 | 32 | 13 | 45 |
| | | Khaki Campbell duck egg | 126 (For hatching) | | 1890.00 | 11 | 4 | 15 |
| | | | 79 (Table egg) | | 553.00 | 7 | 5 | 12 |
| | | Vigova super M duck | 11 (9 nos. sold) | | 4500.00 | 5 | 1 | 6 |
| 4. | PIGGERY | Piggery (Hempshire) | 7 (2 nos sold) | | Milk-590.545 | - | 2 | 2 |
| | | Piglet (Hempshire) | 26 (24 nos. sold) | | Milk-590.545 | 8 | 1 | 9 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | T & D | 5 (1 no. sold) | | Milk-590.545 | - | 1 | 1 |
| | | Piglet (T & D) | 4 | | Milk-590.545 | 2 | 2 | 4 |
| | | Pig servicing | 7 (6 nos. sold) | | Milk-590.545 | 2 | 2 | 4 |
| **5** | FISHERIES | Indan Major carp and exotic | - | 29.1 | 5820.00 | 15 | 5 | 20 |

**3.6. Literature Developed/Published (with full title, author & reference) during 2015-16**

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

(B) Articles/ Literature developed/published

| Item | Title /and Name of Journal | Authors name | No. of copies |
|---|---|---|---|
| Research papers | 1.Effect of organic manure, vermicompost and neemcake on growth, yield and profitability of turmeric (*Curcuma longa*) variety- MeghaTurmeric-1. *Asian Journal of Bio Science.* | Sarma, I., Phukon, M. and Borgohain, R. | 1 |
| | 2.Designe and evaluation of a low cost domestic incubator for hatching Japanese quali eggs.International Journal of Livestock Research | Pankaj Deka, Rupam Borgohain, Luit Moni Barkalita | 1 |
| | 3.Plasma concentration of $T_3$, $T_4$, Testosterone and cortisol in Niang megha and Ghungroo piglets. *International Research Journal of Nature and Applied Sciences (2015)*2:36-41[Impact factor- 3.818; NAAS Rating: 8.0. | R. K. Mohapatra, J.Goswami, N.H.Mohan, M. K. Tamuli, A.V.Verma, K.K.Bonia, Ilakshy Deka and D.K.Sarma | 1 |
| | 4.Effect of Dietary Supplemental Zinc on Serum Zinc, cAMP, Testosterone Concentration and Histological Architecture of Testis in Male Weanling Pig. *Indian Journal of Applied Research* 5:379-381[Impact factor- 3.624; NAAS Rating: 8.0] | Ilakshy Deka, B.C. Sarmah, J. Goswami, D. J. Dutta, D.N.Sarma and D. Kalita (2015) | 1 |
| | 5.Cyclical variation of serum cholesterol and protein along with oestradiol -17β and progesterone during the oestrous cycle following application of exogenous hormones. *Journal of Biology and Nature* (2015)5:47-51 [Impact factor- 2.59; NAAS Rating: 7.8] | Ilakshy Deka , J. Goswami, S. Sarma and B.C. Sarmah | 1 |
| | 6.Efficacy of pharmacologic levels of zinc supplementation around weaning for prevention of piglet diarrhea . *Animal Nutrition and feed technology* (2015) 15: 245-250.[NAAS Rating-6.38] | Ilakshy Deka, J.Goswami,A. Saikia, D.Kalita and B.C.Sarmah | 1 |
| | 7.Blood biochemical and hormonal study of Asian Elephant calves (Elephas maximus) of Manas National Park. North East Veterinarian (2015) XV(3) 25-28 [NAAS Rating 2.25] | B. Choudhury, R.Nath, j.Goswami, B.J.Das, I.Deka, A.Das, S.S.Begum and M.Dutta | 1 |
| Abstract | 1.Amylase-Glucose-Insulin pathway regulation via dietary supplementation of zinc in weanling piglet. (2016) National Symposium on "Physiological approaches for development of climate resilient livestock farming " & XXIV Annual conference of Society of Animal Physiologist of India . 21st-22nd January, 2016, Guwahati | Ilakshy Deka, B.C.Sarmah, S.Kumar , J. Goswami, D.J.Dutta, D.N.Sarma and D. Kalita | 1 |
| | 2.Serum zinc, copper and ghrelin concentration following supplementation of graded dose of zinc: copper. (2016) National Symposium on "Physiological approaches for development of climate resilient livestock farming " & XXIV Annual conference of Society of Animal Physiologist of India . 21st-22nd January, 2016, Guwahati | Minakshi Milli, A. Baruah, A.Bora, J.Goswami, B.C.Sarmah, Ilakshy Deka | 1 |
| Popular articles | 1.Udyan sashyar ropan samagri prastutkaranar koushal | Ira Sarma | 1 |
| | 2.Sitkalin sak pachalir kheti. Ghare-Pathare Pashekia krishi patrika | Ira Sarma | 1 |

| | | | |
|---|---|---|---|
| | 3.Broccolir krishi koushal Ghare-Pathare Pashekia krishi patrika | Ira Sarma | 1 |
| | 4.Maasor bibhinna rog aaru eyar pratikar | Biraj Bikash Sarma | 1 |
| | 5.Samannito Gahori Maas paalon aaru eyar labhalabh | Biraj Bikash Sarma | 1 |
| Extension bulletins | *1.Songmisrita min palonor sasitra kajyapongi* | B.B Sarmah, B. Deka, I. Sarma, R. Kalita, R. Borgohain | 1 |
| | *2. Samanito Gahori- mash palon aru iar labhaluv* | Bi. B. Sarmah, R. Borgohain, B.i Deka, R. Kalita, S. Bhattacharyya, I. Sarma, S.R. Borah | 1 |
| TOTAL | | | 16 |

**(C) Details of Electronic Media Produced: NIL**

**3.4: Award /recognition to the Institute:**


**Best Extension Personal Award-2016:** On the recommendation of the Selection Committee, Assam Agricultural University, Jorhat is pleased to confer upon Dr. Rupam Borgohain, Programme Co-ordinator, Krishi Vigyan Kendra, Jorhat the BEST EXTENSION PERSONNEL AWARD-2016 for his outstanding contribution in refining, demonstrating, showcasing and extending the agricultural technologies to the user groups – the farmers and other stakeholders. The work carried out by this KVK under the guidance of Dr. Borgohain have been instrumental in reaching the unreached farmers and benefit them with technology injected agricultural practices besides placing the KVK as one stop information and technology hub for the farmers and agricultural technology seekers. He was awarded on the occasion of 48$^{th}$ Foundation day of AAU, Jorhat on 1$^{st}$ April'16

**3.7. Success stories/Case studies:**

**Broccoli cultivation opens a new window for economic empowerment of rural tribal vegetable growers in Alengmora area (2015- 16)**

**Background and Problem:** The vegetable growers from the Alengmora area mainly dominated by Mising community had been producing vegetables and catering for Jorhat area of the district. The main source of income of these farmers is growing vegetables throughout the year. All the vegetables can be successfully grown in the Allengmora area because of its fertile soil in the bank of river Brahmaputra. Although the farmers of this area are growing most of the cruciferous vegetables they were not aware about cultivation of high value vegetable crop Broccoli. This was observed by KVK, Jorhat and awareness has been created among the farmers of the locality regarding this high value crop.

**KVKs intervention:** With the interest and good response received from farmers, Krishi Vigyan Kendra, Jorhat has planned to introduce this high value crop in the Alengmora area and initially a small demonstration on Broccoli was conducted in Kolbari village of Alengmora area covering a group of five farmers. They have harvested a bumper crop and due to high demand of this crop at Jorhat market, received a premium price and the farmers were very happy. Most of the farmers of the locality visited the demonstration site during the field day arranged by KVK, Jorhat and requested help & guidance from KVK, Jorhat for cultivation of this crop in nearby villages. The scientists from KVK, Jorhat assured their help &

guidance for cultivation of this crop in next *rabi* season. In the next rabi season the farmers from Neolgaon, Namdeori, Koriamari, Loliti, Bormukoli, Upardeori area started large scale cultivation of this crop.

**Productivity:** Among the beneficiary farmers, **Sri Sanjay Pegu,** a progressive farmer from Kolbari of Allengmora area has emerged as most successful farmer in Broccoli cultivation. During the year 2015-16 Sri Sanjay Pegu has cultivated Broccoli in an area of 1.50 hectare and harvested 22.40 tonnes of Broccoli and earned Rs. 4, 40,000.00 from the sale of Broccoli.

**Adoption by the Farmers:** The farmers were very happy with the cultivation of Broccoli due to its resistance to most of the common pest & diseases, adaptability to the area and overall productivity. During last three years the cultivation of this crop has spread to almost all the villages of the Allengmora area and presently all the farmers of the locality are growing the crop. Sri Sanjay Pegu is an example of successful Broccoli grower among the vegetable growers of the locality.

**Marketing:** Due to high demand of Broccoli in Jorhat market, farmers are not finding any problem in selling the produce and in fact most of the harvests are being sold in their farm only. The retailer from nearby district of Sivasagar & Golaghat has also started coming for purchase of Broccoli from Allengmora area.

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

Non availability of quality fish seed is a major bottle neck in fish farming particularly in upper Assam. Due to non availability of right seed at right time the farmer can not take the full period growth advantage of fish farming (March to October). To do so, a programme on production of carried over seed was undertaken so that farmers rear the previous years fish seed (Carried over) when temperature become congenial for fish farming. Some of the farmers can also take this method of fish seed production as a business venture in the locality.

### 3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development

| S. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
|---|---|---|---|
| 1 | Duckery | Use of *Bhatghila* [*Oroxylum indicum* (L) Vent.] bark extract. The rural people use the bark, make paste and provided to the local ducks when observe symptom of lameness. The symptom of lameness resembles parosis condition of duck. They believe that bhatghila bark can control this problem of duck. This believe if standardized can be converted to technology for controlling duck's deficient in magnesium and iron. This is the first reporting ITK on duck by bhatghila bark. | Treatment for lameness problem (suspected parosis) in duck |
| 2 | Rice | Application of leaves of 'Bihlongini' (*Polygonum hydropiper*) or 'Bihdhekia' (*Sphaerostiphnos unitus*) in the standing crop | Management of rice stem borer |
| 3 | Rice | 'Posotia' leaves are dried, grinded and dusted in the rice field | Management of rice hispa |
| 4 | Rice | Application of Chopped *Kola kachu* (*Colocasia esculanta* Black) and fresh cowdung | Management of case worm problem of rice |
| 5 | Rice | Keeping the stubbles of *Boro* rice undisturbed avoiding ploughing and grazing by the cattle for 1 - 1½ months. The practices is usually practised in traditional varieties grown in low lying (beel) areas | This practice allows the development of ratoon of *boro* rice which provides an additional income to the farmers with zero investment |
| 6 | Rice | Grains for seed purpose are stored in 'koloh or earthen pitcher with a lid made of earth | The stored grain pests cannot enter the structure, thereby savings the seeds. The earthen pot also saves the grains from outside moisture |
| 7 | Banana | Spraying solution of "Samsolokha"/*germani bon* (*Chromolena odorata*) leaves along with detergent soap in banana plant | To control banana weevil |
| 8 | Banana | The juice of *gundhowa bon*, (*Ageratum conizoides*) is sprayed on banana plant | To get rid of leaf and fruit scarring beetle of banana |

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

- Identification of courses for farmers/farm women
- Rural Youth
- Extension personnel

**3.11 Field activities**

i. Number of villages adopted : 12
ii. No. of farm families selected : 1500
iii. No. of survey/PRA conducted : 5

**3.12. Activities of Soil and Water Testing Laboratory**

Status of establishment of Lab :
1. Year of establishment :
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment | Qty. | Cost |
|---|---|---|---|
| 1 | Mridaparikshak | 01 | 72000.00 |
| 2 | | | |
| 3 | | | |
| Total | Mridaparikshak | 01 | 72000.00 |

**3. Details of samples analyzed so far :**

| Details | No. of Samples | No. of Farmers | No. of Villages | Amount ( In Rupees) realized |
|---|---|---|---|---|
| Soil Samples | 250 | 250 | 50 | - |
| Water Samples | | | | |
| Plant Samples | | | | |
| Petiole Samples | | | | |
| Total | 250 | 250 | 50 | - |

**3.13. Details of SMS/ Voice Calls sent on various priority areas**

| Message type | Crop | | Livestock | | Weather | | Marketing | | Awareness | | Other Ent. | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary |
| Text only | 80 | 80 | 60 | 60 | - | - | 20 | 20 | 80 | 80 | 60 | 60 | 300 | 300 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Voice only | | | | | | | | | | | | | | |
| Voice and Text both | | | | | | | | | | | | | | |
| Total | 80 | 80 | 60 | 60 | - | - | 20 | 20 | 80 | 80 | 60 | 60 | 300 | 300 |

**3.14 Contingency planning for 2015-16**

**a. Crop based Contingency planning**

| **Contingency (Drought/ Flood/ Cyclone/ Any other please specify)** | **Proposed Measure** | **Proposed Area (In ha.) to be covered** | **No. of beneficiaries proposed to be covered** | | |
|---|---|---|---|---|---|
| | | | **General** | **SC/ST** | **Total** |
| Drought due to delay in monsoon | Introduction of new variety or crop | | | | |
| 1. Monsoon delay by 4 weeks, i.e. 1st week of July | Staggered planting var. viz. Prafulla, Gitesh (Quality seeds from RARS, Titabor, AAU, Jorhat), Irrigate the seedbed and nursery raising in community basis, Trainings | 50.00 | 60 | 40 | 100 |
| 2. Monsoon delay by 6 weeks, i.e. 3rd week of July | Manohar Sali, Andrew Sali etc. and close spacing, increase no. of seedlings per hill, irrigation, Short duration variety: Luit, dishang, kapili etc | 50.00 | 60 | 40 | 100 |
| 3. Monsoon delay by 8 weeks, i.e. 1st week of August | short duration var. Luit, Broad casting of sprouted seeds, irrigation | 40 | 40 | 40 | 80 |
| | Introduction of Resource Conservation Technologies | | | | |
| | RCT like Mulching, Drip irrigation in horticultural crops like banana, Assam lemon, Awareness training | 5 | 20 | 10 | 30 |
| | Distribution of seeds and planting materials | | | | |
| | Distribution of seeds of short duration varieties like Luit for direct sowing of sprouted seeds | 5 | 15 | 5 | 20 |
| | Establishment of Community nursery near assured water source for varieties like Gitesh , Prafulla, Luit, Dishang, Kanaklata etc for free distribution of seedling | 1 | 45 | 45 | 90 |

**a. Livestock based Contingency planning**

| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Number of birds/ animals to be distributed | No. of programmes to be undertaken | No. of camps to be organized | Proposed number of animals/ birds to be covered through camps | Number of beneficiaries proposed to be covered | | |
|---|---|---|---|---|---|---|---|
| | | | | | General | SC/ST | Total |
| Drought | - | 10 (Awareness cum animal health camp) | 15 | 2000 | 300 | 200 | 500 |
| Flood | - | 15 (Awareness cum animal health camp) | 15 | 2000 | 300 | 200 | 500 |

**4.0. IMPACT**

**4.1.**

**4.2. Impact of KVK activities (Not to be restricted for reporting period only)**

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---|---|---|---|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| Paddy(Variety Ranjit) | 15 | 100 | 18750 | 31700 |
| Paddy(Variety Ranjit) | 15 | 100 | 17950 | 28150 |
| Paddy(Variety- TTB303-2-23 , TTB 303-1-42 & Swarna Sub as Check) | 15 | 100 | 18100 | 21900 |
| Paddy(Variety TTB-404 & Mulagabharu) | 15 | 100 | 18100 | 29150 |
| Paddy(Variety-Luit) | 35 | 100 | 10000 | 12250 |
| Sugarcane(Variety -Kalang & Doria) | 10 | 100 | 107440 | 125890 |
| Black gram (variety-Shekhar1) | 11 | 100 | 11090 | 25800 |
| Khasi mandarin | 3 | 100 | 28980 | 100000 |
| Brinjal- Okra | 10 | 100 | 190000 | 222500 |
| Broccoli | 34 | 100 | 210000 | 278250 |
| Sali Paddy Var. Gitesh & Swarna sub-1 | 235 | 100 | 18750 | 31700 |
| Toria ( variety : TS-46.TS-67) | 200 | 100 | 25000 | 32000 |
| Mushroom | 35 | 100 | 15000 | 35000 |

**NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.**

**4.3. Cases of large scale adoption**

| Activity | Methodology used for analysis | Impact |
|---|---|---|
| Demonstration on Sali paddy (var Gitesh & Swarna sub-1) | Observation and Group Discussion | ▪ After observing the excellent performance of Sali paddy, the farmers become interested to go for large scale cultivation of that varieties in the forthcoming season<br>▪ Farmers accepted the technology and nearby farmers adopted |
| Demonstration on toria var. TS-46., TS-67 | Group discussion | ▪ Farmers of Majuli showed interest towards the technology after getting benefited economically through cultivation of toria. Farmers exhibited keen interest towards the toria var. TS-46., TS-67 |
| Dual purpose chicken Vanaraja | Observation and personal contact | ▪ Concept of rearing of Dual purpose chicken Vanaraja has been adopted by many farmers<br>▪ One farmer Mr. Himantabiswa Gogoi, Bonai have started with 200 Vanaraja chicks. One batch of 100 chicks is in laying stage.<br>▪ Consumers of local market well accepted brown shelled eggs and meat of Vanaraja poultry.<br>▪ Vanaraja poultry farming may be the source of livelihood and food security for rural youth and farm women in Jorhat District. |
| Advisory services on disease management of Bhut Jalakia | Observation and personal contact | ▪ Many farmers of local area were benefited from the advisory services and have adopted the recommended management practices |

**(Please furnish detailed information for each case)**

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

**5.0. LINKAGES ESTABLISHED**

**5.1 Functional linkage with different organizations**

| Name of organizations | Nature of linkage |
|---|---|
| 1. Department of Agriculture, Govt. of Assam | In planning and organizing training programme, demonstrations, field days, farmers-Scientist interaction, CDAP preparation, resource person in training programmes, Joint monitoring of central govt programme like BGREI.<br>The linkage with the department of Agriculture is made effective by frequent meeting with District Agriculture Officer, Joint meeting with the Deputy Commissioner and other agencies |
| 2. Department of Animal Husbandry and veterinary, Govt. of Assam | In planning and implementing training programme and also organizing rural camp for vaccination of farm animals. |
| 3. District Rural Development Agency, Jorhat | Conducting collaborative training programmes and resource persons for DRDA training. Joint visits to the DRDA operated programmes |
| 4. Dairy Development, Jorhat, Assam | In planning and organizing training programme |
| 5. NABARD, Jorhat | Conducting exposure visit, financial assistance for creating Rural Knowledge Centre, Formation of farmers club |
| 6. North East Affected Area Development Society (NGO) | In planning and organizing training programme |
| 7. All India Radio, Jorhat | For coverage of rural programme and broadcasting of Radio-talk on Agriculture |

| | |
|---|---|
| 8. RRTC, Umran, Meghalaya | Conducting exposure visit |
| 9. Central Potato Research Station, Upper Shillong | Conducting exposure visit |
| 10. ICAR Research Complex for NE Hill Region, Umiam, Barapani | Source of technology and conducting exposure visit |
| 11. NRC on Pig, Rani, Kamrup | Source of technology |
| 12. R & D, TATA Tea, Teok, Jorhat | Exchange of resource person, information sharing, exposure visit |
| 13. Central Silk Board, Lahdoigarh | Knowledge sharing, source of information |
| 14. ATMA, Jorhat | Technology backstopping, conducting demonstration, field day programmes, Joint programme evaluation. |
| 15. Assam Seed Certification Agency | For seed certification of seed growers of the district |
| 16. Regional Agricultural Research Station , Titabor | Source of foundation and breeder seeds for all varieties of paddy. Paddy related technology transfer and advisories, joint on farm testing of pipeline varieties |
| 17. Goat Research Station, Bornihat | Regular consultation on goat related issues, AI of beetle goat, Joint health camp, supply of improve breed of goats to farmers |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

**5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2015-16**

| Name of the scheme | Activity | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|---|
| Technology Showcasing | To increase the production and productivity of cereal and oilseed crops as well as to produce quality seed in participatory mode | 2010-11 | RKVY | 29,25,740.00 |
| High Tech Fruit Orchard cum nursery | Planting material generation | Feb,2012 | NHB | 75,00,000.00 |
| Technology Showcasing ie., three tier pig-poultry- fish under RKVY | To increase the production and productivity of pig-poultry-fish | 09/08/2012 | RKVY | 944400.00 |
| Agriculture centric sustainable livelihood improvement programme for the tribal farmers of Assam | 1. A cluster of 10 tribal villages of the district to develop backyard poultry farming with improved variety like "Vanaraja"<br>2. To develop pig breeding unit in 10 different villages of tribal community to produce quality piglet for the development of pig farming in the district. Also, to develop pig fattening unit in the same tribal villages to meet the demand of pork and empower tribal farming community in the district<br>3. To promote cultivation of horticultural crop like vegetables, Assam lemon etc. in the tribal dominated area. | March,2013 | ICAR | 70,00000.00 |

**5.3 Details of linkage with ATMA**

a) Is ATMA implemented in your district: Yes

| Sl. No. | Programme | Nature of linkage | Remarks |
|---|---|---|---|
| 1 | Governing Body, ATMA, Jorhat | Member | |
| 2 | Training | As Resource persons | |
| 3 | Demonstration on Pulse at Majuli | Site and farmers selection | |
| 4 | Farmers – Scientists Interaction | As Resource persons | |
| 5 | Field Day | Collaborative programme | |
| 6 | Diagnostic field visit | As specialists | |

**5.4 Give details of programmes implemented under National Horticultural Mission: Nil**

| S. No. | Programme | Nature of linkage | Constraints if any |
|---|---|---|---|
| | | | |

**5.5 Nature of linkage with National Fisheries Development Board : Nil**

| S. No. | Programme | Nature of linkage | Remarks |
|---|---|---|---|
| | | | |

**6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2015-16**

**6.1 Performance of demonstration units (other than instructional farm)**

| Sl. No. | Demo Unit | Year of estd. | Area | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Produce | Qty. | Cost of inputs | Gross income | |
| 1. | Cattle shed | 2010 | 36.45 | HF- | Milk | 1590.545 lit | 45892.00 | 63622.00 | About to give birth |
| 2. | Vermicompost unit | 2010 | 46.80 | - | Vermi compost | **60 q (6.745 q sold)** | 20904.00 | **60000.00** | |
| | | | | | Vermiworm | **20 kg (9.65 kg sold)** | | **40000.00** | |
| 3. | Poultry Unit | 2011 | 44.40 | **BV 300** | **Eggs** | **1169** | 108240.00 | **7192.00** | |
| | | | | **BV 300** | **Birds** | **18 sold** | | **3660.00** | |
| | | | | **Kalinga brown** | **birds** | **20 (3 nos. sold)** | | **8000.00** | |
| | | | | **Kalinga brown** | **chicks** | **488 (sold)** | | **40360.00** | |
| | | | | **Kalinga brown** | **eggs** | **51 (for hatching)** | | **765.00** | |
| | | | | | | **112 (Table egg)** | | **672.00** | |
| | | | | **Vanaraja** | **birds** | **14** | | **5616.00** | |
| | | | | | **chicks** | **101** | | **11996.00** | |
| | | | | | **eggs for hatching** | **537** | | **6615.00** | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | **Table egg** | **128)** | | **768.00** | |
| | | | | **Kamrupa** | **birds** | **12 (sold)** | | **4186.00** | |
| | | | | **Kamrupa** | **chicks** | **261 (sold)** | | **19410.00** | |
| | | | | **Japanese quail** | **birds** | **226 (200 nos. sold)** | | **17820.00** | |
| | | | | | **eggs** | **2061 (sold)** | | **4122.00** | |
| | | | | **Khaki campbell** | **Duck** | **54 (24 sold)** | | **16200.00** | |
| | | | | **Khaki campbell** | **Duckling** | **280 (279 nos. sold)** | | **25920.00** | |
| | | | | **Khaki Campbell duck** | **Egg (For hatching)** | **126** | | **1890.00** | |
| | | | | | **(Table egg)** | **79** | | **553.00** | |
| | | | | **Vigova super M** | Duck | **11 (9 nos. sold)** | | **5500.00** | |
| 4. | Goattery unit | 2011 | 34.20 | **Beetal buck** | Kids | **8 nos. (6 nos. sold)** | 10000.00 | 20000.00 | |
| | | | | | Goat servicing | **19** | | 950.00 | |
| 5. | Piggery unit | 2010 | 41.04 | **Hempshire** | **Pig** | **7 (2 nos sold)** | 96180.00 | 60000.00 | |
| | | | | | **Piglet** | **26 (24 nos. sold)** | | 64200.00 | |
| | | | | | **Pig servicing** | **4** | | 2000.00 | |
| | | | | **T & D** | **Pig** | **5 (1 no. sold)** | | 40000.00 | |
| | | | | | **Piglet** | **7 (6 nos. sold)** | | 17500.00 | |
| 8. | Demonstration unit (Display unit) | 2011 | 93.50 | - | - | | - | - | |
| 10. | Rice- Fish-Vegetable Unit | 2011 | 0.13 | fish | Local | 25 kg | - | 3000.00 | Stock for next year |
| 11. | Fish pond | 2010 | 50m x 20m | Indian Major Carp | Table fish | 150 kg(29.1 kg sold) | 5000.00 | 30000.00 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12. | Green House | 2011 | 10m x 8m | Brinjal | Longai, Pusa purple round | 80.3 kg (50.35 kg) | 1740.00 | 1607.00 | |
| | | | | Lai | Local | 22.275 kg | | 891.00 | |
| | | | | Spinach | All Green | 12.15 kg | | 486.00 | |
| | | | | Coriender | | 0.85 kg | | 85.00 | |
| | | | | Radish | | 15 kg | | 150.00 | |
| 13. | Azolla production unit | 2012 | 9.9m X 5.5m | Azolla caroleniana | Azolla Compost | 2.0 | 0 | 3000.00 | |
| 14. | Compost production Unit | 2012 | 9.6m X 5m | - | Compos t | 12.0 | 0 | 12000.00 | |
| 15 | Mushroom | 2011 | | *Oyster* | Mushro om | 10 | 536.00 | 1000.00 | |

**6.2 Performance of instructional farm (Crops) including seed production**

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| **Cereals** | | | | | | | | | |
| Rice | May-Jun-2015 | Nov-Dec 2015 | 1.595 | Ranjit, Mashuri, KDML TTB 404, Gitesh, Swarna Sub-1,Keteki Jaha,Black Rice, Badam | Seed | 4.507 t | 48380.00 | 148731.00 | |
| Maize | Feb and July, 2015 | April and Oct-Nov., 15 | 0.065 | Hishell | Seed | 5 q | 3850.00 | 7500.00 | Used in kvk, farm |
| **Pulses** | | | | | | | | | |
| Green gram | Aug 15 | Nov15 | 0.13 | Pratap | Seed | 3 kg | 13040.00 | 330.00 | Failed due to severe weed problem |
| Black gram | Aug 15 | Nov15 | 0.13 | Shekhar | Seed | 11 kg | 1304.00 | 1210.00 | Failed due to severe weed problem |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Ay other French bean | Oct., 15 | No, Dec, 15 and Jan., 16 | 0.035 | Anupama | seed | 1.00 kg | 700.00 | 500.00 | |
| | | | | | vegetable | 64.4 kg | | 1280.00 | |
| Dolichos bean | Oct.-Nov, 15 | Feb., 16 | 0.004 | Dwarf Dolichos | Seed | 4 kg (2.5 kg) | 300.00 | 2400.00 | |
| **Spices & Plantation crops** | | | | | | | | | |
| i. Turmeric | Feb-March, 15 | Dec.-Jan., 16 | 0.65 | MeghaTurmeric-1 | Rhizomes | 4.65 q | 4520.00 | 13950.00 | |
| **Floriculture** | | | | | | | | | |
| i.Gerbera | Sep-Oct, 15 | Started from Jan, 16 | 0.02 | Red Gem | Suckers | 1000nos | 1340.00 | 5000.00 | Used in farm |
| ii.Tuberose | April-May, 15 | April-May, 16 | 0.01 | Suhashini | Bulbs | 500nos | 134.00 | 1000.00 | |
| iii. Gladiolus | Oct.-Nov.,15 | Feb-March, 16 | 0.01 | Novalaux, Sunny Boy | Corms& cormels | 100 nos | 134.00 | 500.00 | |
| **Fruits** | | | | | | | | | |
| i.Pineapple | 05.06.2011 | July& August,2014 | 0.03 | Kew | Fruits & suckers | 300 nos& 400 nos | 2680.00 | 3000.00 | |
| ii.Banana | Sep.,2013 and April, 2014 | - | 0.26 | Amrit Sagar, Jahaji | suckers | 1000 nos | 15000.00 | 1000.00 | Established plantation |
| **Vegetables** | | | | | | | | | |
| Cole crops | Oct.-Nov, 15 | No,15-March., 16 | 0.05 | CabbagePragati plus, | Head, | 81.1kg | 1840.00 | 1622.00 | |
| | | | | Couliflower-P-5666 | curd | 30 kg | | 600.0 | |
| | | | | Knolkhol | Knob | 36.25 kg | | 725.00 | |
| | | | | Broccoli | curd | 17 kg | | 510.00 | |
| French bean | 04.10.2014 | Started from Dec,14 | 0.008 | Arka Anoop | Beans | 45 kg | 100.00 | 675.00 | |
| Brinjal | Oct-Nov.,15 | Jan-March, 16 | 0.013 | Longai | Fruit | 75kg | 536.00 | 1500.00 | |
| Colocasia | April, 2015 | Ja-Feb, 2016 | 0.13 | Ahina kachu, Panchamukhi | Corm and cormel | 200kg | 1840.00 | 4000.00 | |
| Chilli | Oct-Nov.,15 | Jan-March, 16 | 0.001 | BSS-918 | Fruit | 5 kg | 134.00 | 250.00 | Continuing |

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

| Sl. No. | Name of the Product | Qty | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|
| | | | Cost of inputs | Gross income | |
| 1 | Vermicompost | 29.5 q | 0.00 | 29500.00 | |
| | Azolla Compost | 2.0 | 0.00 | 3000.00 | |
| | Compost | 12.0 | 0.00 | 12000.00 | |

### 6.4 Performance of instructional farm (livestock and fisheries production)

| Sl. No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|
| | | Breed/ species | Type of Produce | Qty. | Cost of inputs | Gross income | |
| 1 | Cattle | HF | Milk | 1590.545 lit | 45892.00 | 63622.00 | |
| 2 | Poultry Unit | BV 300 | Eggs | 1169 | 108240.00 | 7192.00 | |
| | | BV 300 | Birds | 18 sold | | 3660.00 | |
| | | Kalinga brown | birds | 20 (3 nos. sold) | | 8000.00 | |
| | | Kalinga brown | chicks | 488 (sold) | | 40360.00 | |
| | | Kalinga brown | eggs | 51 (for hatching) | | 765.00 | |
| | | | | 112 (Table egg) | | 672.00 | |
| | | Vanaraja | birds | 14 | | 5616.00 | |
| | | | chicks | 101 | | 11996.00 | |
| | | | eggs for hatching | 537 | | 6615.00 | |
| | | | Table egg | 128) | | 768.00 | |
| | | Kamrupa | birds | 12 (sold) | | 4186.00 | |
| | | Kamrupa | chicks | 261 (sold) | | 19410.00 | |
| | | Japanese quail | birds | 226 (200 nos. sold) | | 17820.00 | |
| | | | eggs | 2061 (sold) | | 4122.00 | |
| | | Khaki campbell | Duck | 54 (24 sold) | | 16200.00 | |
| | | Khaki campbell | Duckling | 280 (279 nos. sold) | | 25920.00 | |
| | | Khaki Campbell duck | Egg (For hatching) | 126 | | 1890.00 | |
| | | | (Table egg) | 79 | | 553.00 | |
| | | Vigova super M | Duck | 11 (9 nos. sold) | | 5500.00 | |
| 3 | Goattery unit | Beetal buck | Kids | 8 nos. (6 nos. sold) | 10000.00 | 20000.00 | |
| | | | Goat servicing | - | | 950.00 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | Piggery unit | Hempshire | Pig | 7 (2 nos sold) | 96180.00 | 60000.00 | |
| | | | Piglet | 26 (24 nos. sold) | | 64200.00 | |
| | | | Pig servicing | 4 | | 2000.00 | |
| | | T & D | Pig | 5 (1 no. sold) | | 40000.00 | |
| | | | Piglet | 7 (6 nos. sold) | | 17500.00 | |
| 5 | Rice- Fish-Vegetable Unit | fish | Local Table fish | 25 kg | - | 3000.00 | Stock for next year |
| 6 | Fish pond | Indian Major Carp | | 150 kg(29.1 kg sold) | 5000.00 | 30000.00 | |
| 7 | Green House | Brinjal | Longai, Pusa purple round | 80.3 kg (50.35 kg) | 1740.00 | 1607.00 | |
| | | Lai | Local | 22.275 kg | | 891.00 | |
| | | Spinach | All Green | 12.15 kg | | 486.00 | |
| | | Coriender | | 0.85 kg | | 85.00 | |
| | | Radish | | 15 kg | | 150.00 | |

**6.5 Rainwater Harvesting: Nil**

**Training programmes conducted by using Rainwater Harvesting Demonstration Unit**

| Date | Title of the training course | Client (PF/RY/EF) | No. of Courses | No. of Participants including SC/ST | | | No. of SC/ST Participants | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Male | Female | Total | Male | Female | Total |
| | | | | | | | | | |

**6.6. Utilization of hostel facilities (Month-Wise) during 2015-16: Nil**

## 7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location/ Branch | Account Number |
|---|---|---|---|
| With Host Institute | SBI, AAU, Branch | Assam Agricultural University, Jorhat | 10253825316 |
| With KVK | SBI, Teok | Teok | 30240073924 |
| Revolving Fund | SBI, Teok | Teok | 30705097714 |

**7.2 Utilization of funds under FLD on Maize *(Rs. In Lakhs) if* applicable: Not applicable**

**7.3 Utilization of KVK funds during the year 2015 -16**

| S. No. | Particulars | Sanctioned (in Lakh) | Released (in Lakh) | Expenditure (in Lakh) |
|---|---|---|---|---|
| **A. Recurring Contingencies** | | | | |
| 1 | **Pay & Allowances** | 84.0 | 81.48 | 81.48 |
| 2 | **Traveling allowances** | 2.5 | - | - |
| 3 | **Contingencies** | | | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 3.02<br>12.08 | 3.02<br>12.08 | 3.02<br>12.08 |
| *B* | POL, repair of vehicles, tractor and equipments | | | |
| *C* | Meals/refreshment for trainees | | | |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| *G* | Training of extension functionaries | | | |
| *H* | Maintenance of buildings | | | |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| *J* | Library | | | |
| **TOTAL (A)** | | **15.10** | **15.10** | **15.10** |
| **B. Non-Recurring Contingencies** | | | | |
| 1 | **Works** | | | |
| 2 | **Equipments including SWTL & Furniture** | 4.0 | 4.0 | 4.0 |
| 3 | **Vehicle** (Four wheeler/Two wheeler, please specify) | | | |
| 4 | **Library** (Purchase of assets like books & journals) | | | |
| **TOTAL (B)** | | 4.0 | 4.0 | 4.0 |
| **C. REVOLVING FUND** | | | | |
| **GRAND TOTAL (A+B+C)** | | | | |

**7.3 Status of Revolving Fund (Rs. in lakhs) for last three years**

**7.4**

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1st April of each year |
|---|---|---|---|---|
| April 2013 to March 2014 | 3,63,161.00 | 2,56,608.00 | 2,65,967.00 | 3,53,782.00 |
| April 2014 to March 2015 | 3,53,782.00 | 2,84,271.00 | 3,71,290.00 | 2,66,763.00 |
| April 2015 to March 2016 | 2,66,763.00 | 4,79,936.00 | 5,25,039.00 | 2,21,660.00 |

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

**8.1. List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2015-16**

| Name of the scheme | Activity | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|---|
| Technology Showcasing | To increase the production and productivity of cereal and oilseed crops as well as to produce quality seed in participatory mode | 2010-11 | RKVY | 29,25,740.00 |
| High Tech Fruit Orchard cum nursery | Planting material generation | Feb,2012 | NHB | 75,00,000.00 |
| Technology Showcasing ie., three tier pig- poultry- fish under RKVY | To increase the production and productivity of pig-poultry-fish | 09/08/2012 | RKVY | 944400.00 |
| Agriculture centric sustainable livelihood improvement programme for the tribal farmers of Assam | 1. A cluster of 10 tribal villages of the district to develop backyard poultry farming with improved variety like "Vanaraja"<br>2. To develop pig breeding unit in 10 different villages of tribal community to produce quality piglet for the development of pig farming in the district. Also, to develop pig fattening unit in the same tribal villages to meet the demand of pork and empower tribal farming community in the district<br>3. To promote cultivation of horticultural crop like vegetables, Assam lemon etc. in the tribal dominated area. | March,2013 | ICAR | 70,00000.00 |

**8.2. Technology showcasing cum foundation seed production programme on *Sali* paddy during 2015-16 :**

| Crop | Variety | Location | Nos of Seed growers | Area (ha) | Avg. Yield (Qt/Ha) |
|---|---|---|---|---|---|
| Sali paddy | Ranjit | Lahing Sukanjan, Thengal gaon (Na- Ali ), Puranimatia | 158 | 30.67 | 5.1 |
| | Swarna Sub- 1 | | | 35.33 | 4.7 |
| | Gitesh | | | 35.33 | 4.9 |

**8.3. 1. Cluster demonstration of Rabi Oilseeds and pulses under NMOOP and NFSM:**

| Sl. No | Title | Crop | Technology demonstrated | No of Demo/ farmers | Area (ha) |
|---|---|---|---|---|---|
| 1 | CFLD on Rabi oilseeds under NMOOP'15-16 | Toria | HYV- TS 67, INM practices (Bio-fertilizer: PSB &Azotobacter) & FYM under Rice- Fallow situation, Soil amendment (Lime), Micronutrient (Borax) | 85 | 30 |
| 2 | CFLD on Rabi pulses under NFSM'15-16 | Lentil | HYV – Moitree, KLS 218, HUL -57, INM practices (Bio-fertilizer: Rhizobium) & FYM under Rice- Fallow situation, Soil amendment (Lime) | 31 | 10 |
| | | Pea | HYV- Prakash, HUDP 15, INM practices (Bio-fertilizer: Rhizobium) & FYM under Rice-Fallow situation, Soil amendment (Lime) | 25 | 10 |
| | | Summer Black gram | HYV : KU 301, (KU301, IPU94-1), INM practices (Bio-fertilizer: Seed inoculation with Rhizobium @50g/kg seed) & FYM @ 4-5 t/ha under Rice- Toria-Fallow situation, Soil ammendment (Lime @ 67.5 kg/ha) | 28 | 10 |
| | | Summer Green gram | HYV – Pratap, INM practices (Bio-fertilizer: Seed inoculation with Rhizobium @50g/kg seed) & FYM @ 4-5 t/ha under Rice- Toria-Fallow situation, Soil ammendment (Lime @ 67.5 kg/ha) | 33 | 10 |

**8.3.2. Performance of Cluster demonstration of Rabi Oilseeds and pulses under NMOOP and NFSM:**

| Sl. No. | Crop | Area (ha.) | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. yield (Q/ha.) | | Data on parameters other than yield, e.g., disease incidence, pest incidence etc. | | Econ. of demo. (Rs./ha.) | | | | Econ. of check (Rs./Ha.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Demo. | Check | | H* | L* | Demo | Local | GC** | GR** | NR** | BCR** | GC | GR | NR | BCR |
| **1.** | Toria | 30 | 10.3 | 6.9 | 50.43 | 11.27 | 9.34 | Negligible | | 14800 | 31140 | 16340 | 2.10 | 14150 | 20860 | 6710 | 1.47 |
| 2. | Lentil | 10 | 8.975 (Moitree) | 6.12 | 46.65 | 9.21 | 8.74 | | | 30070 | 71800 | 41730 | 2.39 | 28900 | 48960 | 20060 | 1.69 |
| | | | 9.095 (KLS 218) | | 48.61 | 9.37 | 8.82 | | | | 72760 | 42690 | 2.41 | | | | |
| 3. | Pea | 10 | 12.25 | 8.71 | 40.64 | 13.05 | 11.45 | | | 30255 | 49000 | 18745 | `1.62 | 26200 | 34840 | 8640 | 1.32 |
| 4. | Summer Black gram: Area: 10 ha | | | | **In Progress** | | | | | | | | | | | | |
| 5. | Summer Green gram: Area = 10 ha | | | | | | | | | | | | | | | | |

**8.4 Constraints**

(a) Administrative : None

(b) Financial : Delay in release of fund from ZPD for the financial year. Generally the first release is during June –July but our seasons activities starts from April; hence, face a lot of problem. Revised budget is always announced almost at the end of the year which makes utilization difficult. The fund under contingency is too meager to take up activities among farmers to make the presence of KVK felt in the district.

(c) Technical : Soil laboratory not established till date

(d) Mobility : There is only one vehicle at KVK which often become insufficient to make all the field visits. Hence, another vehicle or one/two motorbike may be provided for smooth monitoring of various programmes by the SMS.

(Signature)

**Programme Coordinator**
**Krishi Vigyan Kendra, Jorhat**
**Assam Agricultural University**