**KRISHI VIGYAN KENDRA, ROHTAS BIKRAMGANJ**

**ANNUAL REPORT 2017-18**

**(April 2017 to March 2018)**

1. GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
|  | Office | FAX |  |
| Krishi Vigyan Kendra, Ara Road, Bikramganj, Rohtas | 06185-222800 | -- | rohtaskvk@gmail.com  www.rohtaskvk.org  www.kvk.icar.gov.in |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| Office | FAX |  |
| Bihar Agricultural University, Sabour, Bhagalpur | 0641-2452611 | 0641-2452604 | [deebausabour@gmail.com](mailto:deebausabour@gmail.com)  www.bausabour.ac.in |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
| Dr. Reeta Singh | 06185-222800 | +91 9931312288 | reetakvk@rediffmail.com |

1.4. Year of sanction of KVK: 2004 vide F.No. 8(1)/2002 –AE-II(pt.), February 9,2004.

1.5. Staff Position (as on 1st April, 2017)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Sanctioned post | Name of the incumbent | Designation | Discipline/ | Pay  Scale with present basic | Date of joining | Permanent/  Temporary | Category (SC/ST/  OBC/  Others) |
| 1 | Programme  Coordinator | Vacant | Nil | -- | -- | -- | -- | -- |
| 2 | Subject Matter  Specialist | Dr. Reeta Singh | SMS | Home Sc. (In-charge P.C) | 15600-39100 GP-6000  P.Basic- 30860 | 10.07.2007 | Permanent | OBC |
| 3 | Subject Matter  Specialist | Dr. Ram Pal | SMS | Agril. Engineering | 15600-39100 GP-6000  P. Basic- 28220 | 08.01.2008 | Permanent | Others |
| 4 | Subject Matter  Specialist | Mr. Rakesh Kumar Prasad | SMS | Soil Science | 15600-39100 GP-5400  P. Basic-21000 | 24.12.2016 | Permanent | OBC |
| 5 | Subject Matter  Specialist | Dr. Ratan Kumar | SMS | Horticulture | 15600-39100 GP-5400  P. Basic- 24350 | 17.04.2012 | Permanent | Others |
| 6 | Subject Matter  Specialist | Mr. Devendra Mandal | SMS | Agronomy | 15600-39100 GP-5400  P. Basic- 24350 | 17.04.2012 | Permanent | OBC |
| 7 | Subject Matter  Specialist | Dr. Alok Bharti | SMS | Animal & Vet. Sc. | 15600-39100 GP-5400  P. Basic-22950 | 13.10.2014 | Permanent | OBC |
| 8 | Programme Assistant | Mr. Praween Kr. Patel | Programme Assistant (Lab) | Agriculture | 9300-34800 GP-4200  P. Basic- 15670 | 06.11.2012 | Permanent | Others |
| 9 | Computer  Programmer | Mr. Harendra Pd. Sharma | Programme Assistant (Comp.) | Computer Sc. | 9300-34800 GP-4200  P. Basic-15210 | 17.05.2013 | Permanent | ST |
| 10 | Farm Manager | Mr. Santosh Kumar | Farm Manager | Agriculture | 9300-34800 GP-4200  P. Basic- 15670 | 01.11.2012 | Permanent | Others |
| 11 | Accountant / Superintendent | Mr. Abhishek Kaushal | Assistant | Accounts | 9300-34800 GP-4200  P. Basic- 15210 | 26.04.2013 | Permanent | SC |
| 12 | Stenographer | Mr. Subesh Kumar | Stenographer | - | 5200-20200 GP-2400  P.Basic- 11170 | 22.06.2013 | Permanent | OBC |
| 13. | Driver | Mr. Rakesh Kumar | Driver | - | 5200-20200 GP-2000  P.Basic- 8990 | 15.05.2015 | Permanent | SC |
| 14. | Driver | Mr. Navin Kumar Paswan | Driver | - | 5200-20200 GP-2000  P.Basic- 8990 | 19.05.2015 | Permanent | SC |
| 15. | Supporting staff | Mr. Umesh Kr. Singh | Supporting staff | - | 7293 | 09.02.2012 | Temporary | OBC |
| 16. | Supporting staff | Mr. Saroj Kumar | Supporting staff | - | 7293 | 01.10.2016 | Temporary | OBC |

1.6. Total land with KVK (in ha) : Farm Land

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 0.13 |
| 2. | Under Demonstration Units | 8.50 |
| 3. | Under Crops | 0.50 |
| 4. | Orchard/Agro-forestry | 0.10 |
| 5. | Others with details | 0.77 |
|  | Total | **10.00** |

*Total area should be matched with breakup*

1.7. Infrastructure Development:

A) Buildings and others

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S. No. | Name of infrastructure | Not yet started | Completed up to plinth level | Completed up to lintel level | Completed up to roof level | Totally completed | Plinth area (sq.m) | Under use or not\* | Source of funding |
| 1. | Administrative  Building |  |  |  |  | √ |  |  | ICAR |
| 2. | Farmers Hostel |  |  |  |  | √ |  |  | ICAR |
| 3. | Staff Quarters (6) |  |  |  |  | √ |  |  | ICAR |
| 4. | Piggery unit | √ |  |  |  |  |  |  | ICAR |
| 5 | Fencing |  |  |  |  | √ |  |  | ICAR |
| 6 | Rain Water harvesting structure | √ |  |  |  |  |  |  |  |
| 7 | Threshing floor |  |  |  |  | √ |  |  | ICAR |
| 8 | Farm godown |  |  |  |  | √ |  |  | ICAR |
| 9. | Dairy unit | √ |  |  |  |  |  |  |  |
| 10. | Poultry unit | √ |  |  |  |  |  |  |  |
| 11. | Goatary unit | √ |  |  |  |  |  |  |  |
| 12. | Mushroom Lab |  |  |  |  | √ |  |  | ICAR |
| 13. | Mushroom production unit |  |  |  |  | √ |  |  | ICAR |
| 14. | Shade house | √ |  |  |  |  |  |  |  |
| 15. | Soil test Lab |  |  |  |  | √ |  |  | ICAR |
| 16 | Others,Please Specify |  |  |  |  |  |  |  |  |

\* If not in use then since when and reason for non-use

B) Vehicles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of vehicle | Year of purchase | Cost (Rs.) | Total km. Run | Present status |
| Jeep (Bolero) | 2017 | 4,40,526.00 | 30964 Km. | Working |
| Tractor (New) | 2014 | 5,65,000.00 | 8055 Km. | Working |
| Motorcycle (Hero Passion) | 2015 | 59,452/- | 8976 Km. | Working |
| Motorcycle (Honda Neo) | 2015 | 59,600/- | 9610 Km | Working |

C) Equipment & AV aids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** | **Source of fund** |
| **a. Lab equipment (Fruit & vegetable processing & Mushroom spawn lab)** | | | | |
| PP cap sealing | 2012 | 9550/- | Working | ICAR |
| Crown corking | 2012 | 4950/- | Working | ICAR |
| Mixture/grinder | 2012 | 9000/- | Working | ICAR |
| Lug cap sealer | 2012 | 8900/- | Working | ICAR |
| Pulper | 2012 | 16500/- | Working | ICAR |
| Fruit mill | 2012 | 16500/- | Working | ICAR |
| Drying oven | 2012 | 74500/- | Working | ICAR |
| Vacuum Bottle filling | 2012 | 24500/- | Working | ICAR |
| Vegetable juicer | 2012 | 19500/- | Working | ICAR |
| Auto clave | 2012 | 62000/- | Working | ICAR |
| Refr. meter | 2012 | 4400/- | Working | ICAR |
| Thermometer | 2012 | 880/- | Working | ICAR |
| Elec. Top pan balance | 2012 | 9975/- | Working | ICAR |
| Contour TS Blood Glucos | 2013 | 1645/- | Working | ICAR |
| Sphygmomanometer | 2013 | 1100/- | Working | ICAR |
| Stethoscope | 2013 | 400/- | Working | ICAR |
| Weighing Machine Digital | 2014 | 2730/- | Working | ICAR |
| Staturemeter | 2014 | 551.25 | Working | ICAR |
| Weighing SCL Libra | 2014 | 1099.38 | Working | ICAR |
| Heamo Meter Square | 2014 | 731.86 | Working | ICAR |
| Heamo Meter Round | 2014 | 539.72 | Working | ICAR |
| Chips Cutter | 2014 | 495/- | Working | ICAR |
| Paddle Operated Potato Peeler & Slicer | 2014 | 32480/- | Working | ICAR |
| PP Cap sealing | 2012 | 9550/- | Working | ICAR |
| Crown corking | 2012 | 4950/- | Working | ICAR |
| Mixture –Grinder | 2012 | 9000/- | Working | ICAR |
| Lug Cap Sealer | 2012 | 8900/- | Working | ICAR |
| Pulper | 2012 | 16500/- | Working | ICAR |
| Fruit Mill | 2012 | 16500/- | Working | ICAR |
| Drying Oven | 2012 | 74500/- | Working | ICAR |
| Vacuum Bottle Filling | 2012 | 24500/- | Working | ICAR |
| Vegetable Juicer | 2012 | 19500/- | Working | ICAR |
| Auto Clave (02 No.) | 2012 | 60000/- | Working | ICAR |
| Refr. Meter | 2012 | 4400/- | Working | ICAR |
| Thermometer | 2012 | 880/- | Working | ICAR |
| Elec. Top Pan Balance | 2012 | 9975/- | Working | ICAR |
| Laminar Flow | 2012 | 60,000/- | Working | ICAR |
| Refrigerator | 2012 | 20,000/- | Good | ICAR |
| Rack (2 Nos) | 2012 | 6000/- | Good | ICAR |
| BOD Incubator | 2012 | 70000/- | Working | ICAR |
| **b. AV Aids** | | | | |
| Computers & Scanner | 2007 | 41,784/- | Not Working | ICAR |
| Computer - HP Compaq LE1902x | 2013 |  | Good | ICAR |
| Camera 6 mega pixel | 2007 | 33,738/- | working | ICAR |
|  |  |  |  |  |
| LCD Projector |  |  | Working | ICAR |
| Ricoh Xerox Machine | 2013 | 61,286/- | Good | ICAR |
| UPS-Microtek | 2013 | 4500/- | Not working | ICAR |
| P.A. System with cordless mike | 2013 | 23,550/- | Good | ICAR |
| **c. Farm machinery** | | | | |
| Tractor | 2014-15 | 5,65,000.00 | working | ICAR |
| Paddy transplanter | 2011-12 | - | working | RKVY (State Govt.) |
| Reaper (Self propelled) | 2013-14 | 1,00,000 | Working | ICAR |
| Rubber Holler Rice Mill | 2012-13 | 2,17,615.00 | working | PHT, State Govt. |

D) Farm implements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** | **Source of fund** |
| Straw Baler | 2012-13 | 8,60,000.00 | working | PHT, State Govt. |
| Zero till drill (2 piece) | 2007 | 44,720/- | Not working | ICAR |
| Reaper (Tractor operated) | 2012-13 | - | Working | RKVY (State Govt.) |
| Thresher | 2012-13 | - | Working | RKVY (State Govt.) |
| Disc harrow | 2012-13 | - | Working | RKVY (State Govt.) |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Date | Number of Participants | Salient Recommendations | Action taken | If not conducted, state reason |
| 1. | 27.03.2018 | 63 | Stated below\* | Attached |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

*\* Salient recommendation of SAC in bullet form*

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

**B) Proceeding of 7th Scientific Advisory Committee Meeting held on Dt. 16.12.2016**

**at KrishiVigyanKendra, Rohtas, Bikramganj**

The 7th meeting of the Scientific Advisory Committee of KrishiVigyan Kendra, Rohtas, Bikramganj was held on 16th December, 2016 under the chairmanship of Dr.R. N. Singh, Associate Director Extension Education, Bihar Agricultural University, Sabour. The list of members present in the meeting is attached herewith for kind perusal. The meeting started with the welcome address by Dr. U. S. Jaiswal, Associate-Dean-cum-Principal, V.K.S. College of Agriculture, Dumraon. The member secretary of the SAC-meeting-Cum- the Officer-in-Charge, K.V.K., Rohtas, Bikramganj - Dr.Ajay Kumar presented Action Taken Report(ATR) of last SAC-meeting alongwith the progress report and action plan of K.V.K, Rohtasbefore the house. The ATR, salient achievements and overall progress report of K.V.K., Rohtas was highly appreciated by the house and the following recommendations were made for the smooth and effective dissemination of technologies among various stakeholders and farming communities of the district.

1. Dr. R. N. Singh. ADEE. BAUSabour suggested
2. KVK should focus also on marketing issue of agricultural produce though group approach.
3. Diversification from Rice-wheat cropping system is very much required in this district.
4. Dr.AvijitHaldhar, Principal Scientist(Animal Reproduction), ATARI, Kolkata suggested that
5. OFT on Rice should be more than other crops since it is the major crop of this district.
6. Statistical analysis of OFT/FLD data should be performed before reporting.
7. KVK'sSMS should be concerned about environmental issues with a strategy for poor and landless farmers.
8. KVKveterinary scientist must take care of fodder availability before planning for large scale goatery.
9. Dr. R. K. Malik, All India Coordinator, CSISA-CYMMYT, Patnasuggested that:
10. OFTs of K.V.K. should based on the frequently asked questions of the farmers, collected during theirinteraction.
11. Data recording and presentation should be based on cropping system not seasonal or crop wise.
12. Direct seeding of rice, wheat, mustard, gram, linseed etc. should promote with better data recording.
13. Complete the sowing of wheat by 15th December to mitigate the terminal heat in wheat.
14. Assistant Director Horticulture, Rohtas emphasised:

i. To promote mulching, micro-irrigation and poly-house cultivation as Govt. is providing huge subsidy in theses areas.

1. Sri Gulab Singh, farmers’ representative, asked:
   1. To increase number of training programmes on Animal husbandry.
2. Sri Ritesh Pandey, farmers’ representative, told that
   1. In rainfed area of the district cultivation of Aonla should be promoted in the group. Training programmes for their processing should also be organized at KVK.
   2. Fishery is large scale emerging area in the district. KVK should take suitable intervention in this area.
3. Assistant Soil Conservation Officer, Rohtas suggested :
   1. to organize a collaborative exposure visit of Aonla processing units inPratapgarh district of Uttar Pradesh with technical support of KVK and financial support from his department.
4. Sri Vijay Kumar Singh, farmers’ representative, suggested:
   1. To explore and identify the suitable technologies to reduce the yield gap in DSR and conventional rice.
5. Sri Prem Kumar, farmers’ representative, suggested:
6. To develop at least one farm in each block where all SMS of KVK and progressive farmers of respective block may work together to demonstrate the *Integrated Farming System .*
7. KVK *should take a lead in the emerging field of quail farming in the district.*
8. Smt. Bashanti Devi, Nutrition Expert-JeevikaBikramganj, asked:

i. To strengthening KVK- Jeevika linkage for the benefit of SHGs.

1. Dr. U. S. Jaiswal suggested:
   1. To promote annual variety of marigold, suitable variety of potato for chips and full component management of poly house in the area.
2. Sri Dhanajay Singh, invitee farmer, suggested
   1. To start extraction of oil from medicinal distillation unit installed at KVK, Farm.
3. Sri Vijay Bahadur Singh, Invitee farmer, suggested:
   1. To develop KVK horticultural garden at Dhangain as training &demonstrative-cum –commercial unit so that the farmers of the area can be benefited.
4. Sri Vijay Kumar Singh, Invitee farmer, suggested:
   1. To that care and maintenance of farm machines is extremely required at village level.KVK should arrange skill training of rural youths at local level for this purpose which could also generate employment among the youth in their own niche.
5. Sri Barun Kumar Vidayarthi, Farmers’ representative, suggested
   1. to promote marketing of raw milk at local level to convert small and marginal dairy into a profitable venture.

The meeting was ended with vote of thanks byDr.Arvind Kumar, Chief Scientist (Plant Pathology), AICRIP on Rice to all the dignitaries and members.

**c) Action Taken Report of the 7th SAC-Meeting held on 16th December, 2016**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Recommendation** | **ATRs** |
| 1.  (i) | Dr. R. N. Singh. ADEE, BAU Sabour suggested:  KVK should focus also on marketing issue of agricultural produce through group approach. | (a) Tomato hub at Masauna village  (b) FPO on organic farming in Nasriganj;  (c) FPO on seed production is under process.  (d) Chahat milk kisan club in Kosaunda village.  (e) Smt. Sangita Gupta - Namah Shivay Mahila Samuh |
| (ii) | Diversification from Rice-wheat cropping system is very much required in this district. | (a) Mentha cultivation -10,000 ha (OFTs-3; FLD- 100 ha)  (b) Vegetable cultivation - 20,000 ha (OFTs-5; FLD-50 ha)  (c) Oilseeds & pulses - 25,000 ha (Pulses-20000 ha; Oilseed-5000) |
| 2. (i) | Dr. Avijit Haldhar, Principal Scientist(Animal Reproduction), ATARI, Kolkata suggested that  OFT on Rice should be more than other crops since it is the major crop of this district. | Four OFTs have been conducted in kharif season.  (i) Assessment of growth & yield of DSR under different seed rate in Rohtas district.  (ii) Assessment of different doses of fertilizer in DSR for better yield.  (iii) Assessment of different spacing in DSR for better yield.  (iv) Assessment of efficacy of different methods of pre emergence herbicide application in transplanted rice. |
| (ii) | Statistical analysis of OFT/FLD data should be performed before reporting. | All data in report are presented after statistical analysis. |
| (iii) | KVK's SMS should be concerned about environmental issues with a strategy for poor and landless farmers. | The following activities are conducted -DSR, NBE & Happy seeder, ZTT, Feroman Trap, Organic pesticide, Mushroom production, Protected cultivation etc. Celebration of World Environment day, Parthenium Awareness week, World Soil Health day, Swachhata Pakhwara, Prithvi Diwas etc. |
| (iv) | KVK veterinary scientist must take care of fodder availability before planning for large scale goatery. | Demo & training on Fodder production is going on in collaboration with IGFRI, Jhansi & other institutions. |
| 3.(i) | Dr. R. K. Malik, All India Coordinator, CSISA-CYMMYT, Patna suggested that:  OFTs of K.V.K. should based on the frequently asked questions of the farmers, collected during their interaction. | OFTs of KVK are based on PRA, feedback of Kisan Gosthi, K. Chaupal & other farmers' interaction. |
| (ii) | Data recording and presentation should be based on cropping system not seasonal or crop wise. | 09 trials of CSISA & OFTs of KVK are done on system basis**.(Annex-1)** |
| (iii) | Direct seeding of rice, wheat, mustard, gram, linseed etc. should promote with better data recording. | OFT & Demonstrations on rice, wheat, mustard, gram, lentil & linseed crops is going on. |
| (iv) | Complete the sowing of wheat by 15th December to mitigate the terminal heat in wheat. | DSR, short duration paddy, NBE, ZTT etc. are being conducted to achieve the timely sowing of wheat. |
| 4. | Assistant Director Horticulture, Rohtas emphasized:  To promote mulching, micro-irrigation and poly-house cultivation as Govt. is providing huge subsidy in theses areas. | OFT on mulching & polyhouse has been designed and trainings & demonstration on protected cultivation & micro irrigation have been been performed.  OFT-03 Nos. (Strawberry, Tomato & Marigold mulching)  FLD- 02 ha  No. of polyhouse - 07  Micro irrigation- i) Drip irrigation (Sabeya - 20ha; Akashi - 2ha; Dehri- 1 ha & Bandu - 50 ha)  ii) Sprinkler - 1000 unit |
| 5. | Sri Gulab Singh, farmers’ representative, asked: To increase number of training programmes on Animal husbandry. | Total No. of Animal husbandry training 19 (545 beneficiaries) - during April-Dec, 2017. |
| 6. | Sri Ritesh Pandey, farmers’ representative, told that fishery is large scale emerging area in the district. KVK should take suitable intervention in this area. | Formation of Fishery Federation and supporting input is being promoted.   * Shri Kumar Premchand received Best Farmer Innovative Award for Fish Farming & Quail rearing. |
| 7. | Sri Vijay Kumar Singh, farmers’ representative, suggested:  To explore and identify the suitable technologies to reduce the yield gap in DSR and conventional rice. | 03 trails on DSR has been conducted in Kharif-2017.  (i) Assessment of growth & yield of DSR under different seed rate in Rohtas district.  (ii) Assessment of different doses of fertilizer in DSR for better yield.  (iii) Assessment of different spacing in DSR for better yield. |
| 8. | Sri Prem Kumar, farmers’ representative, suggested: KVK should take a lead in the emerging field of quail farming in the district. | Training & advisory services is being made available to the quail farms 24 X 7. |
| 9. | Smt. Bashanti Devi, Nutrition Expert-Jeevika, Bikramganj, asked:  To strengthening KVK- Jeevika linkage for the benefit of SHGs. | KVK-Jeevika has under taken several joint programmes for betterment of SHGs-  (a) KVK-Jeevika Training on Mushroom production, Food processing, Vegetable production, Crop production, NBE etc.  (b) Participating of Jeevika SHGs in KVK Programmes like- International Soil Day, International Women's Day, National Nutrition Week, World Health Day, Sankalp Se Sidhi programme, Live telecast programme of the Hon'ble PM of India.  (c) KVK awarded to a BPM of Jeevika for NBE. |
| 10. | Dr. U. S. Jaiswal, Associate Dean-cum-Principal, VKSCoA, Dumraon suggested:  To promote annual variety of marigold, suitable variety of potato for chips. | Demonstration of annual variety of marigold (Pusa Narangi) (8 farmers - 2.0 ha) & linkage with Pepsico & farmer through BAGRI (Vr. Chipsona & Atlanta) established. |
| 11. | Sri Dhanajay Singh, invitee farmer, suggested:  To start extraction of oil from medicinal distillation unit installed at KVK, Farm. | Distillation unit of KVK farm is used by 04 farmers of 03 villages for oil extraction of Mentha & Khus. |
| 12. | Sri Vijay Bahadur Singh, Invitee farmer, suggested: To develop KVK horticultural garden at Dhangain as training &demonstrative-cum –commercial unit so that the farmers of the area can be benefited. | Horticultural garden - Mango, Lemon & Guava mother plants are being maintained & developed at KVK-Farm. |
| 13. | Sri Barun Kumar Vidayarthi, Farmers’ representative, suggested  To promote marketing of raw milk at local level to convert small and marginal dairy into a profitable venture. | Kisan Club Kosanda is collecting, processing, packaging & marketing milk in the brand name of '**Chahat'** at local level (200-250 litre/day). Several other entrepreneurs are developing in the area. |

d) **List of Members participating in 7th Scientific Advisory Committee Meeting**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Dr. Ajoy Kumar Singh | Hon'ble Vice-Chancellor, BAU, Sabour, Bhagalpur | Chairman |
| 2 | Dr. Avijit Haldar | Principal Scientist, ICAR-ATARI (Zone-II) Kolkata | Member |
| 3 | Dr. R. N. Singh | Associate Director Extension Education, BAU, Sabour | Member |
| 4 | Dr. U.S. Jaiswal | Associate Dean-cum-Principal, V.K.S.College of Agriculture, Dumraon, Buxar | Member |
| 5 | Sri Dinesh Prasad | District Agriculture Officer, Rohtas | Member |
| 6 | Sri Dinesh Nandan Paswan | Project Director (ATMA), Rohtas, Sasaram | Member |
| 7 | Sri Arun Kumar Mishra | District Horticulture Officer, Rohtas | Member |
| 8 | Sri Uday Prakash | District Fishery Officer, Rohtas, Sasaram | Member |
| 9 | Dr. Vinod Kumar | District Animal Husbandry Officer, Rohtas | Member |
| 10 | Sri Radha Mohan | District Soil Conservation Officer, Rohtas | Member |
| 11 | Sri Ajit Kumar Singh | DDM, NABARD, Rohtas, Sasaram | Member |
| 12 | Sri Sudhir Kumar | Branch Manager, PNB, Bikramganj | Member |
| 13 | Sri Deepak Kumar | Branch Manager, SBI, Bikramganj | Member |
| 14 | Sri Ritesh Pandey | NGO Representative (JKJ) | Member |
| 15 | Sri Raj Kishore | Station Director, AIR, Sasaram | Member |
| 16 | Sri Binod Kumar | Programme Officer, MGNREGA, Bikramganj | Member |
| 17 | Sri Achyutanand Singh | Assistant Engineer, Sone Nahar, Bikramganj | Member |
| 18 | Representatives of | Jeevika, CSISA, BAGRI, NFL | Member |
|  | **Nominated Farmers** | | |
| 19 | Sri Manoj Kumar Singh | Farmers' Representative | Member |
| 20 | Sri Yashwant Singh | Farmers' Representative | Member |
| 21 | Sri Vijay Kumar | Farmers' Representative | Member |
| 22 | Sri Prem Kumar | Farmers' Representative | Member |
| 23 | Sri Alok Kumar Dubey | Farmers' Representative | Member |
| 24 | Sri Bhagwan Singh | Farmers' Representative | Member |
| 25 | Sri Barun Kumar Vidyarthi | Farmers' Representative | Member |
| 26 | Smt Basanti Devi | Farmers' Representative | Member |
| 27 | Smt. Kiran Singh | Farmers' Representative | Member |
|  | **Special Invitee Farmers** | | |
| 28 | Sri Dilip Kumar Singh | Organic farming | Member |
| 29 | Sri Vijay Bahadur Singh | Cereal production | Member |
| 30 | Sri Deen Dayal Singh | Vegetable production | Member |
| 31 | Sri Dhananjay Kr. Singh | Protected cultivation | Member |
| 32 | Sri Arjun Singh | Vegetable production | Member |
| 33 | Sri Jyoti Kumar | Entrepreneur | Member |
| 34 | Md. Ashif Khan | Fishery | Member |
| 35 | Sri Gulab Lal | Piggery | Member |

2.a. District level data on agriculture, livestock and farming situation (2017-18)

|  |  |  |
| --- | --- | --- |
| Sl. no. | Item | Information |
| 1 | Major Farming system/enterprise | Agriculture, Animal Husbandary, Fishery & Poultry |
| 2 | Agro-climatic Zone | III-B Middle Gangetic Plain Region (IV) |
| 3 | Agro ecological situation | Northern Plain, Hot Subhumib (Dry) Eco sub region (9.2) |
| 4 | Soil type | Clay & loam |
| 5 | Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | Paddy - 3244; Wheat -2253; Maize-4100; Mustard-1220; Greengram-1050; Lentil-2000; Vegetable - 1230; Mango-500; Guava-800 |
| 6 | Mean yearly temperature, rainfall, humidity of the district | - |
| 7 | Production of major livestock products like milk, egg, meat etc. | Milk & milk products, Egg, Chicken, Mutton, Bater, Fish |

Note: Please give recent data only

2.b. Details of operational area / villages (2017-18)

|  |  |  |
| --- | --- | --- |
| **Name of Village** | **Block** | **Scientist in-charge** |
| Karmaini | Bikramganj | Dr. Reeta Singh (H.Sc.) |
| Motha | Karakat | Dr. Ram Pal (Agril. Engg.) |
| Maidhara | Bikramganj | Sri Rakesh Kumar Prasad (S.Sc.) |
| Masauna | Sanjhauli | Dr. Ratan Kumar (Horticulture) |
| Hukkadih | Bikramganj | Sri Devendra Mandal (Agronomy) |
| Kosaunda | Bikramganj | Dr. Alok Bharti (Animal Science) |

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2017-18) for its development and action plan

|  |  |  |
| --- | --- | --- |
| **Name of village** | **Block** | **Action taken for development** |
| Sanjhauli | Sanjhauli | Training, OFT, FLD, Kisan Gosthi, Kisan Chaupal and other activities |
| Derhgaon | Dawath |
| Akashi | Sasaram |
| Bandu | Nauhatta |
| Babhani | Karahgar |
| Shivpur | Bikarmganj |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Name of Taluk | Name of the Block | No. of the Village | Major crops & enterprises | Major problems identified (crop-wise) | Identified Thrust Areas |
| 1 | Bikramganj | Dawath |  | Paddy, wheat, mentha | Due Late harvesting of paddy, productivity of wheat is low | Crop production |
| 2 | Bikramganj | Suryapura |  | Paddy, wheat |
| 3 | Bikramganj | Bikramganj |  | Paddy, wheat, pulse |
| 4 | Bikramganj | Karakat |  |
| 5 | Bikramganj | Sanjhauli |  | Paddy, wheat, Vegetable | Production management technology |
| 6 | Bikramganj | Karhgar |  | Paddy, wheat |
| 7 | Sasaram | Nokha |  | Due Late harvesting of paddy, productivity of wheat is low | Production management technology |
| 8 | Sasaram | Chenari |  | Crop production |
| 9 | Sasaram | Shivsagar |  |
| 10 | Sasaram | Sasaram |  | Paddy, wheat, vegetable | Production management technology |
| 11 | Sasaram | Kochas |  | Paddy, Wheat | Crop production |
| 12 | Sasaram | Dinara |  | Paddy, wheat, mentha |
| 13 | Dehri | Akodhigola |  | Paddy, wheat, Potato & guava | Due to clay & sandy loam soil, soil fertility is very. Irrigation facility is not available like Tilouthu, Rohtas, Chenari | Crop production |
| 14 | Dehri | Dehari |  | Paddy, wheat, pulse |
| 15 | Dehri | Tilouthu |  | Paddy, wheat, pulse |
| 16 | Dehri | Rohtas |  |
| 17 | Dehri | Nouhatta |  | Paddy, wheat |
| 18 | Dehri | Nasriganj |  | Paddy, wheat, Vegetable | Production management technology |
| 19 | Dehri | Rajpur |  | Paddy, wheat, pulse | Crop production |

2.1 Priority thrust areas

|  |  |
| --- | --- |
| Agronomy | Crop diversification |
| Seed production, Processing and marketing |
| Selection of high yielding mid duration variety of rice |
| Productivity enhancement in oilseed and pulses |
| Integrated weed management for crop production |
| Nursery management of paddy |
| Identification of suitable variety of wheat , oilseed and pulses |
| Cultivation of drought tolerant crop in rainfed area |
| Plant Protection | Assessment of organic insecticide for control of BPH |
| Integrated Pest management in rice, wheat and vegetable |
| Integrated disease management in rice , wheat and vegetable |
| Integrated Nematode management in vegetable |
| Store grain pest management |
| Mushroom production |
| Integrated Pest management in Gram |
| Soil Science | Integrated Nutrient management for crop production |
| Assessment of soil nutrient under rice-wheat cropping system |
| Vermi-compost production |
| Fertilizer application based on soil test value |
| Horticulture | Organic farming in vegetables and fruits crop |
| Medicinal and aromatic plant |
| Nursery management in horticultural crops |
| Home Science | Drudgery reduction specially for farmwomen engaged in different agricultural activities |
| Value addition of agricultural products |
| Development of subsidiary enterprise both in farm and non-farm sector i.e. Mushroom production, Home based small scale enterprise, fruits and vegetables preservation, skill upgradation in textiles for self employment and income generation among rural women and rural youth . |
| Agricultural Engg. | RCT in paddy, wheat cropping system |
| Post harvest technology |
| Crop residue management |
| Process engineering |
| Value addition of agricultural products |
| Soil and water conservation engineering |
| Animal Sc. | Summer stress in animals |
| Common managemental practices to improve milk yield. |
| Care of pregnant dairy animals. |
| Income generation through backyard poultry production. |
| Emu farming. |
| Profits in integrated farming system. |
| Commercial goat rearing. |
| Diseases management in goats. |
| Annual fodder production |

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievement of mandatory activities by KVK during the year

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OFT** | | | | | | **FLD** | | | | | |
| No. of technologies: 14 | | | | | | No. of technologies: | | | | | |
| Number of OFTs | | Number of farmers | | | | Number of FLDs | | Number of farmers | | | |
| Target | Achievement | Target | Achievement | | | Target | Achievement | Target | Achievement | | |
| SC/ ST | Others | Total | SC/ ST | Others | Total |
| 12 | 14 | 60 | 10 | 60 | 70 | 10 | 12 | 700 | 200 | 700 | 900 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Training** | | | | | | **Extension activities** | | | | | |
|  | | | | | |  | | | | | |
| Number of Courses | | Number of Participants | | | | Number of activities | | Number of participants | | | |
| Target | Achievement | Target | Achievement | | | Target | Achievement | Target | Achievement | | |
| SC/ ST | Others | Total | SC/ ST | Others | Total |
| 350 | 389 | 10000 | 3784 | 7003 | 10787 | 30 | 38 | 1200 | 376 | 874 | 1250 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Seed production (q)** | | **Planting material (in Lakh)** | |
| Target | Achievement | Target | Achievement |
| 500 | 557.20 | 200000 | 40,000 |

|  |  |  |  |
| --- | --- | --- | --- |
| Livestock strains and fish fingerlings produced (in lakh)\* | | Soil, water, plant, manures samples tested (in lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| 0 | 0 | 1000 | 1300 |

* \* Give no. only in case of fish fingerlings

|  |  |  |
| --- | --- | --- |
| Publication by KVKs | | |
| Item | Number | No. circulated |
| Research paper | 05 | 05 |
| Seminar/conference/ symposia papers | 15 | 150 |
| Books | 02 | 10 |
| Bulletins | 03 | 10 |
| News letter | 4 | 4000 |
| Popular Articles | 05 | 1000 |
| Book Chapter | 03 | 50 |
| Extension Pamphlets/ literature | 10 | 2500 |
| Technical reports | 0 | 0 |
| Electronic Publication (CD/DVD etc) | 04 | 10000 |
| **TOTAL** | **51** | **17725** |

**1 Achievements on technologies assessed and refined**

OFT-1 Agril.Engg.

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | Assessment of efficacy of different methods of pre emergence herbicide application in transplanted rice. |
| 2. | Problem diagnosed | Spraying of pre-emergence herbicide by holed cap plastic bottle is very common ITK. Its efficacy should be standardized for scientific up scaling. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | FP:- Application of herbicide by holed cap plastic bottle  T1:- Application of herbicide by mixing in sand.  T2:- Application of herbicide by knapsack sprayer |
| 4. | Source of Technology | BAU, Sabour |
| 5. | Production system and thematic area | Rice-Wheat and drudgery reduction |
| 6. | Performance of the Technology with performance indicators | This ITK required 48.43% and 54.11 % less man-hr/ ha in application of herbicide as compared to T1and T2, respectively.  Weed count is 15.34 and 17.55 percent more in this ITK as compared to T1and T2, respectively. |
| 7. | Final recommendation for micro level situation | Assessment was in first year, recommendation would be given in next year |
| 8. | Constraints identified and feedback for research | Farmers apply herbicides before transplanting |
| 9. | Process of farmers participation and their reaction | Farmers are quite satisfied with this ITK instead of large weed count due to migration of labour from agriculture. |

*Thematic area:*  Drudgery Reduction

Problem definition: Spraying of pre-emergence herbicide by holed cap plastic bottle is very common ITK. Its efficacy should be standardized for scientific up scaling.

Technology assessed: FP:- Application of herbicide by holed cap plastic bottle

T1:- Application of herbicide by mixing in sand.

T2:- Application of herbicide by knapsack sprayer

Table: Effect of different methods of herbicide application in rice

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Performance indicators | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| Manhr/ha | Weed count, M2 | Test wt. (100 grain wt.) |
| FP | 07 | 8.42\* | 8.57 | NA | NA | 63.56 | 50103 | 98202 | 48099 | 1.96 |
| T1 | 07 | 16.33 | 7.43 |  |  | 63.47 | 50450 | 98378 | 47928 | 1.95 |
| T2 | 07 | 18.35 | 7.29 |  |  | 63.82 | 50990 | 98921 | 47931 | 1.94 |
| CD at 5% |  | 0.65 | 2.85 |  |  | 2.10 |  |  |  |  |

**Results**: Spreading of pre-emergence herbicide, Pretilachlore, by holed cap plastic bottle is a very popular ITKamong the farmers. The common recommendation for using this herbicide is to be mixed with sand and then broadcasted in the field whereas the best result was expected when it is being spread by Knapsac sprayer. For establishing this ITK present OFT has been designed and conducted. The result shows that there is a significant saving in man-day-hr in application of herbicide by this ITK. Although, weed count is not better than other treatments, benefit cost ratio is also better than the others, with a very little yield penalty. This trial endorses the farmers choice and strength of ITK. The variety under trial was MTU-7029.

OFT-2 Agril.Engg.

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of different spacing in DSR for better yield** |
| 2. | Problem diagnosed | At recommended spacing (17 cm) a huge loss inDSRcrop was recorded due to sever attack of rice blast (07 score) during Kharif, 2016. Row spacing has a major role in the incidence of a disease in a crop.Hence, the present study aimed to assess the incidence of different diseases in DSR sown at different row spacing. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | FP :- 17 cm (row to row)  T1:- 20 cm (row to row)  T2:- 25 cm (row to row) |
| 4. | Source of Technology | BAU, Sabour |
| 5. | Production system and thematic area | Rice-Wheat, Resource Conservation |
| 6. | Performance of the Technology with performance indicators | Yield, yield components and diseases score |
| 7. | Final recommendation for micro level situation | Assessment was in first year, recommendation would be given in next year |
| 8. | Constraints identified and feedback for research | Calibration and adjustment of tine spacing is difficult for farmers |
| 9. | Process of farmers participation and their reaction | Farmers were participated in calibration, setting of tine and sowing of crop |

*Thematic area: Resource Conservation*

Problem definition: High density of plant population causes several problems

Technology assessed: 03 row spacings

FP :- 17 cm

T1:- 20 cm

T2:- 25 cm

Table: Effect of different row spacings on yield and yield components and blast incidence in DSR

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Rice blast scoring(0-9 scale) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of effective tillers/m2 | No. of grain per panicle | Test wt. (1000 grain wt.) |
| FP | 07 | 333.14 | 49.86 | 23 | 6 | 54.38 | 45775 | 84227 | 38452 | 1.84 |
| T1 | 07 | 357.71 | 50.86 | 25 | 3 | 60.31\* | 47694 | 93481 | 45787 | 1.96 |
| T2 | 07 | 371.14 | 51.76 | 24 | 4 | 59.47\* | 48261 | 92179 | 43918 | 1.91 |
| CD at 5% |  | 44.12 | 4.87 |  |  | 3.41 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**Results:**The Table shows that the highest yield (6031 kg/ha) was recorded in treatment T1(20 cm inter row spacing), followed byT2(25 cm inter row spacing), having yield of 5947 kg/ha and FP (17 cm inter row spacing), having yield of 5438 kg/ha.. The finding was also supported by B:C ratio values. Similar trends were also recorded by number of effective tiller/m2 and test weight. Rice blast was also observed to have lowest score(03) in T1 , followed by T2(04) and FP (06). These findings reveal that inter row spacing of 20 cm may be a suitable inter row spacing in DSR cultivation for getting optimum yield as well as controlling the rice blast in R.Sweta.

OFT-3 Agril. Engg.

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | Refinement in the dose of Hydrogel on yield of wheat |
| 2. | Problem diagnosed | Huge loss in wheat yield was recoded in Rabi 2015-16 due to moisture stress and T2(5.0 kg/ha) gave maximum production |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | FP : Sowing of wheat By ZT without basal application of Hydrogel.  T1: Sowing of wheat By ZT with 2.5 kg/ha basal application of Hydrogel.  T2: Sowing of wheat By ZT with 5.0 kg/ha basal application of Hydrogel  T3: Sowing of wheat By ZT with 7.5 kg/ha basal application of Hydrogel |
| 4. | Source of Technology | IARI, New Delhi |
| 5. | Production system and thematic area | Rice- wheat and water management |
| 6. | Performance of the Technology with performance indicators | Yield and yield attributes |
| 7. | Final recommendation for micro level situation | Refinement was in first year, recommendation would be given in next year |
| 8. | Constraints identified and feedback for research | High moisture during showing chocks the fertilizer conduit pipes and affects the germination |
| 9. | Process of farmers participation and their reaction | Participation of farmers is very encouraging |

*Thematic area: Water management*

Problem definition: Huge loss in wheat yield was recoded in Rabi 2015-16 due to moisture stress and T2(5.0 kg/ha) gave maximum production

Technology refined:

FP : Sowing of wheat By ZT without basal application of Hydrogel.

T1: Sowing of wheat By ZT with 2.5 kg/ha basal application of Hydrogel.

T2: Sowing of wheat By ZT with 5.0 kg/ha basal application of Hydrogel

T3: Sowing of wheat By ZT with 7.5 kg/ha basal application of Hydrogel

Table: Effect of different dose of hydrogel on yield of wheat

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of effective tillers/hill | No. of grain per panicle | Test wt. (100 grain wt.) |
| FP | 07 | 76.2 | 57.571 | 12.902 | NA | 18.40 | 16840 | 31924 | 15084 | 1.89 |
| T1 | 07 | 82.4 | 61.000 | 12.940 |  | 21.64\* | 18650 | 37586 | 18936 | 2.01 |
| T2 | 07 | 88.5\* | 60.857 | 13.853 |  | 23.55\* | 19960 | 40859 | 20899 | 2.04 |
| T3 | 07 | 86.2 | 62.143 | 12.64 |  | 21.08\* | 21270 | 36574 | 15304 | 1.71 |
| CD at 5% |  | 11.2 | 15.23 | 3.45 |  | 2.01 |  |  |  |  |

**Results:** The Table shows that the treatment T2 (application of 5 kg/ ha hydrogel)is performing best among the all treatments. Yield and number of effective tiller/m2 is significantly higher than the FP. Benefit-cost ratio is also the highest among the treatments. Recorded yield in all hydrogel treatment are significantly higher than the FP.

OFT-4 Agril.Engg.

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of different spacing in lentil sowing for better yield** |
| 2. | Problem diagnosed | Over growth and high plant population causes sever yield loss in lentil. Undergrowth and thin plant population leads to higher weed infestation and yield loss as well. Under these circumstances, an row spacing is required to assess for optimum crop yield. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **Different row spacing, cm**  FP : 17  T1 : 20  T2: 25 |
| 4. | Source of Technology | BAU, Sabour |
| 5. | Production system and thematic area | Rice- pulse, RCT |
| 6. | Performance of the Technology with performance indicators | Yield and yield attributes |
| 7. | Final recommendation for micro level situation | Assessment was in first year |
| 8. | Constraints identified and feedback for research | Calibration and setting of row spacing is difficult for common farmers |
| 9. | Process of farmers participation and their reaction | Training and demonstration of sowing and calibration process, farmers participation was satisfactory |

*Thematic area: RCT*

Problem definition: **Assessment of different spacing in lentil sowing for better yield**

Technology assessed: 03 row spacings

. FP : 17 cm

T1 : 20 cm

T2: 25 cm

Table: Effect of different row spacing on yield of lentil

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of plant/m2 | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 07 | 75.3 | NA | 53.21 | NA | 12.25 | 33000 | 49000 | 16000 | 1.48 |
| T1 | 07 | 68.4 | 55.32 | 17.24\* | 33000 | 68960 | 35960 | 2.09 |
| T2 | 07 | 61.6\* | 54.46 | 14.32 | 33000 | 57280 | 24280 | 1.74 |
| CD at 5% |  | 8.24 |  | 4.36 |  | 3.48 |  |  |  |  |

**Results:** Row spacing of 20 cm is performing the best among the selected row spacing. Yield is significantly higher than the FP( 17 cm inter row spacing). Plant population is significantly reduced in treatment T2(inter row spacing of 25 cm) than the farmers practice. Test grain weight has no significant difference in these treatments. Setting of Zero till machine at 25 cm is also difficult. Hence row spacing of 20 is best option for lentil cultivation in Rohtas district.

OFT-5 Home Sc.

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | Assessment of the efficiency of bhindi plucker for drudgery reduction of farmers & farm women of the district. |
| 2. | Problem diagnosed | Bhindi is the major vegetable crop in Rohtas district. Manual harvesting of Bhindi is very problematic & painful, so it becomes very essential to assess the different techniques for bhindi plucking. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | F.P.- Manual harvesting.  TO1- Bhindi plucker.  TO2- Hand gloves. |
| 4. | Source of Technology | MFAU, Maharashtra |
| 5. | Production system and thematic area | Rice-Summer vegetable, Drudgery Reduction |
| 6. | Performance of the Technology with performance indicators | Bhindi plucker is not so good for commercial harvesting of bhindi for vegetable grower. |
| 7. | Final recommendation for micro level situation | Harvesting of Bhindi by hand gloves showed the highest B.C ratio, harvesting time & efficiency and labour requirement in comparison to the Bhindi plucker. |
| 8. | Constraints identified and feedback for research | The edge of the Bhindi plucker is not so sharp & finger hold grip is not comfortable. There is a need to refine for better performance for commercial use. |
| 9. | Process of farmers participation and their reaction | Training and demonstration process, farmers participation was satisfactory. |

*Thematic area:* Drudgery Reduction

Problem definition: Assessment of the efficiency of bhindi plucker for drudgery reduction of farmers & farm women of the district.

Technology assessed: F.P.- Manual harvesting.

TO1- Bhindi plucker.

TO2- Hand gloves

**Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Indicators** | **Treatments** | | |
| FP-Manual harvesting | T-1: Bhindi Plucker | T2- Hand gloves |
| Harvesting time (Min./kg) | 2.5 | 4.0 | 2.0 |
| Havesting efficiency (Kg./hr) | 24.0 | 15.0 | 30.0 |
| Grip strength | 20 | 18 | 34 |
| Labour requirement per plucking (labour/acre) | 6 | 7 | 4 |
| B:C ratio | 1.7 | 1.8 | 2.4 |
| Cost of cultivation (Rs./acre) | 40000 - 45000 | 50000 | 35000 |
| Net profit | 80000 | 90000 | 85000 |
| Production of Bhindi (Qtl/acre) | 160 | 170 | 165 |

Measurement of pain on palm & fingers:

|  |  |  |  |
| --- | --- | --- | --- |
| **Indicators** | Treatments | | |
| FP-Manual harvesting | T-1: Bhindi Plucker | T2- Hand gloves |
| No pain |  |  | √ |
| Mild pain |  | √ |  |
| Severe pain | √ |  |  |

**Results:** Harvesting of bhindi by hand gloves showed the highest B:C ratio, harvesting time and efficiency and labour requirement in comparison to the bhindi plucker. So Bhindi plucker of its harvesting is not so good for commercial harvesting of bhindi for vegetable grower.

OFT-6 Agronomy

**(I) Title: - To access growth yield of DSR under different seed rate in Rohtas district.**

|  |  |
| --- | --- |
| Problem identification | * High vegetative growth due to higher seed rate. * Due high vegetative growth severe attack of stem borer. * Sheath blight infestation |
| Methodology adopted for problem identification | * Discussion with farmers during Training Programmes * Observation during field visits |
| Production system and Thematic Area | Crop production |
| Possible solutions | Late sowing of the scented vr. Sonachur |
| Source of Technology | **IARI, Pusa, New Delhi** |
| Nature of Intervention | OFT |
| Farmer’s Practices | 20 kg./ha |
| Possible solutions to be compared | T0:- 16 kg./ha  T1:-12 kg./ha |
| Observations to be Recorded | (a) No. of tillers/mtr2  (b) Plant height (cm)  (c) Panicle length (cm)  (d) No. of grains per panicle  (e) Yield  (f) B:C ratio |

**Table:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Treatment | No. of tillers/m2 | plant height(cm) | Panicle length(cm) | No. of grains/Panicle | Grain Yield (qtl/ha) | B:C ratio |
| FP-20kg/ha | 242.6 | 92.6 | 22.4 | 247 | 42.2 | 1.48 |
| T0-16kg/ha | 303.8 | 97.6 | 26.8 | 269.2 | 50.8 | 1.83 |
| T1-12kg/ha | 284.2 | 95.8 | 22.8 | 253.6 | 48.6 | 1.71 |

**Result:** The result shows that the treatment T0(16kg/ha)give best result among the other treatment of T2 and farmer practices.

OFT-7 Horticulture

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of the effects of Bio-fertilizers in kharif onion crop.** |
| 2. | Problem diagnosed | Indiscriminate use of chemical fertilizer because various health & environmental problems |
| 3. | Details of technologies selected for assessment/refinement. | F.P.: Indiscriminate use of Chemical fertilizer  T1: Recommended dose (100:80:80).  T2: 7 T2: 75% Chemical fert RDF. + Azotobacter + PSB+Vermi-Compost  T3: 50% Chemical fert RDF. + Azotobacter +  PSB +Vermi-compost. |
| 4. | Source of Technology | RAU, Pusa, Samastipur |
| 5. | Production system and thematic area | Onion/Onion cropping system |
| 6. | Performance of the Technology with performance indicators | Satisfactory |
| 7. | Final recommendation for micro level situation | Experimentation was in first year. |
| 8. | Constraints identified and feedback for research | Seedling growing is difficult during rainy season |
| 9. | Process of farmers participation and their reaction | Process demonstration |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Treatment*** | ***Yield (Q/ha)*** | ***Cost of cultivation(Rs.)*** | ***Gross cost (Rs./ha)*** | ***Net return (Rs./ha)*** | ***B:C ratio*** |
| F.P. | 90.66 | 50500 | 108792 | 58292 | 2.15 |
| T.O1 | 110 | 52800 | 132000 | 79200 | 2.50 |
| T.O. 2 | 134.88 | 54300 | 161856 | 107556 | 2.98 |
| T.O. 3 | 125 | 55400 | 150000 | 94600 | 2.70 |

**Result**: 75% Chemical fert RDF. + 25% (Azotobacter + PSB+Vermi-Compost) is performed better than other treatments F.P.(120:80:60), T.O-1(100:80:60) and T.O-3(50% of Chemical fert RDF + 50% of (Azotobacter + PSB+Vermi-Compost).

OFT-8 Animal Sc.

**Title:** **Assessment of efficacy of Deltamethrin, Amitraz and Ivermectin in treatment of Ecto-parasitic infestation in crossbred cattle.**

|  |  |
| --- | --- |
| Problem identification | Problem of Ecto-parasitic infestation in crossbred cattle |
| Methodology adopted for problem identification | * Discussion with farmers during Training Programmes * Observation due to field visits * Diagnosis during health camps |
| Production system and Thematic Area | Animal health Management |
| Possible solutions | Use of Deltamethrin (2.8% w/w), Amitraz (12.5% w/v), and Ivermectin (3.1% w/v) |
| Source of Technology | RVC, Ranchi |
| Nature of Intervention | OFT |
| Farmer’s Practices | Use of Deltamethrin (2.8%w/w) |
| Possible technology to be compared | T0:- External application of Amitraz (12.5% w/v) @3ml/litre water at monthly interval  T1:- Ivermectin (3.1% W/V) S/C injection @50mg once in three months |
| No. Of Animals | 05 per replication |
| No. Of Replication | 03 |
| Observations to be Recorded | * Relief from Ecto-parasitic infestation on the animal * Re-occurrence of the problem * Any other disease observed |
| Critical Inputs | Ecto-parasitic drugs |
| Cost of Each Location | 7500 |
| Total Cost of Inputs | 22500 |

Table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Treatment Groups** | **Relief from Ectoparasitic Infestation till next administration (N=15)** | **Re-ocurrence of the ectoparasite within month**  **(N=15)** | **Any other abnormality observed within 24 hrs of administration**  **(N=15)** |
| 1 | Farmers Practice (Deltamethrin 2.8 % w/w at monthly interval) | 06 | 9 | Anorexia- 11 animals  Red Rashes- 08 animals  Tremor- 01 animals  Hyperventilation-6 animals |
| 2 | T0 (Amitraz 12.5% w/v @3 ml/ litre water at monthly interval) | 11 | 4 | Anorexia- 08 Animals  Red Rashes- 06 Animals  Hyperventilation- 03 Animals |
| 3 | T1 (Ivermectin 3.1 % w/v S/C injection @ 50mg at an interval of 3 months) | 14 | 1 | Anorexia- 01 Animals  Local Swelling- 12 Animals |

**Result**: Based on above findings it can be said that T1(Ivermectin 3.1 % w/v S/C injection @ 50mg at an interval of 3 months) is better than T0(Amitraz 12.5% w/v @3 ml/ litre water at monthly interval), which is subsequently better performing than the Farmers Practice (Deltamethrin 2.8 % w/w at monthly interval).

**Please provide all the OFTs in same format**

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Crop | Thematic area | Technology Demonstrated with detailed treatments | Area (ha) | | No. of farmers/  demonstration | | | Reasons for shortfall in achievement |
| Proposed | Actual | SC/ST | Others | Total |  |
| 1. | Bottle gourd |  | Pusa Naveen | 2.0 | 2.25 | 10 | 45 | 55 |  |
| 2. | Elephant foot yam |  | Gajendra | 0.5 | 0.5 | 2 | 8 | 10 |
| 3. | Brinjal |  | PH-6 & PH-9 | 0.5 | 0.6 | 1 | 14 | 15 |  |
| 4. | Bio-fertilizer (wheat) |  | - | 10.0 | 10.0 | 12 | 48 | 60 |
| 5. | Tomato |  | Kasi-Vishesh; Himsona | 05 | 05 | 0 | 5 | 5 |  |
| 6. | Marigold |  | P.Narangi | 01 | 01 | 0 | 3 | 3 |  |
| 7. | Papaya |  | Pusa Nanha | 01 | 01 | 3 | 12 | 15 |  |
| 8. | Rizobium culture in pulse crop |  | - | 15.0 | 15.0 | 10 | 30 | 40 |  |
| 9. | Wheat |  | HI-1563 | 7.0 | 7.0 | 5 | 25 | 30 |  |
| 10. | Formalin (Straw sterilization) |  | - | - | - | 5 | 25 | 30 |  |
| 11. | Liquid Calcium supplement |  | - | 50 | 50 | 20 | 80 | 100 |  |
| 12. | Poultry |  | Grampriya | 90 | 90 | 700 | 200 | 900 |  |

Details of farming situation

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil  (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
| N | P2O5 | K2O |
| Bottle gourd | Zaid | Irrigated | Clay & Loam | 270 | 24.4 | 160 | Wheat | 20.03.2017 | 20.07.2017 | - | - |
| Elephant foot yam | Kharif | Irrigated | Clay Loam | 285 | 23.0 | 180 | Wheat | 03.04.2017 | 23.11.2017 | - | - |
| Brinjal | Kharif | Irrigated | Clay Loam | 270 | 21.0 | 190 | Wheat | 03.03.2017 | 21.07.2017 | - | - |
| Bio-fertilizer (wheat) | Rabi | Irrigated | Clay Loam | - | - | - | Paddy | - | - | - | - |
| Tomato | Rabi | Irrigated | Clay Loam | 240 | 23.5 | 200 | Paddy | 07.11.2017 | 04.04.2018 | - | - |
| Marigold | Rabi | Irrigated | Clay Loam | 260 | 21.2 | 185 | Paddy | 02.12.2017 | 03.05.2018 | - | - |
| Papaya | Kharif | Irrigated | Clay Loam | 290 | 23.3 | 180 | Fallow | 01.08.2017 | - | - | - |
| Rizobium culture in pulse crop | Rabi | Irrigated | Clay Loam | - | - | - | Paddy | - | - | - | - |
| Wheat | Rabi | Irrigated | Clay Loam | 230 | 24.8 | 210 | Paddy | 21.11.2017 | 10.04.2018 | - | - |
| Formalin (Straw sterilization) | Rabi | - | - | - | - | - | - | 11.11.2017 | - | - | - |
| Liquid Calcium supplement | Kharif | - | - |  |  |  | - | 03.07.2017 | - | - | - |
| Poultry | - | - | - |  |  |  | - | - | - | - | - |

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

Performance of FLD : ***FLD*** ***Oilseeds & Pulses are running under CFLD***

Oilseeds:

Frontline demonstrations on oilseed crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area  (ha) | Yield (q/ha) | | % Increase | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Pulses   
Frontline demonstration on pulse crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area  (ha) | Yield (q/ha) | | % Increase | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | | | | | | | | | | |
|  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Other crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic area | Name of the technology demonstrated | No. of Farmer | Area  (ha) | Yield (q/ha) | | % change in yield | Other parameters | | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demons  ration | Check | Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Total | |  |  |  | | | | | | | | | | | | |

Livestock

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic  area | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Dairy | Dairy production | Liquid Calcium | 100 | 100 | Liquid Calcium | Ca(OH)2 water | 120% |  |  | 14000 | 32000 | 18000 | 1.29 | 6000 | 9000 | 3000 | 0.5 |
| Cow |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buffalo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry | Poultry production | Grampriya, Vanaraja | 90 | 10 | Improved backyard birds | Desi Birds | 200% |  |  | 55000  (900 birds) | 180000 | 25000 | 2.27 | 4000  (100 birds) | 10000 | 6000 | 1.5 |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic area | | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Common carps |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mussels |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fishes |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | Total | |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) or Rs./unit | | | | \*Economics of check  (Rs.) or Rs./unit | | | |
| Demons  ratio | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Oyster mushroom | Enterprise development | 15 | 10 bag each farmer | A.Production per hag  B. Net return (Rs/kg)  C. B:C ratio 10 | - | - | - | - | 330.0 | 3000.0 | 2670 | 1:9 | - | - | - | - |
| Button mushroom |  | 11 | 1.0 Qtl compost | 13 | - | - | - | - | 800.0 | 4000.0 | 3200.0 | 1:5 | - | - | - | - |
| Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Women empowerment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Category | Name of technology | No. of demonstrations | Observations | | Remarks |
| Demonstration | Check |
| Farm Women | Introduction of drumstick leaves to protect against Anaemia | 25 | Increase the hamoglobin level (10-11.5 g/dL.) | Hamoglobin level is not upto the mark (9-10 g/dL.) |  |
| Pregnant women | 18 |  |
| Adolescent Girl | 32 |  |
| Other women | 15 |  |
| Children |  |  |  |  |  |
| Neonatal |  |  |  |  |  |
| Infants |  |  |  |  |  |

Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the implement | Crop | Name of the technology demonstrated | No. of Farmer | Area (ha) | Filed observation (output/man hour) | | % change in major parameter | Labor reduction (man days) | | | | Cost reduction (Rs./ha or Rs./Unit) | | | |
| Demons  ration | Check | Demo | Check | Saving | % | Demo | Check | Saving | % |
| Paddy transplanter | paddy | Transplanting | 12 | 10 | 0.01ha | 0.004 ha | 57.14 | 12 | 28 | 16 | 57.14 | 3000 | 5600 | 2600 | 46.42 |
| Zero till machine | Paddy | DSR | 20 | 8 | 0.5 | 0.004 | 92.82 | 02 | 28 | 26 | 92.82 | 6500 | 11500 | 5000 | 43.47 |
| Zero till machine | Wheat | Sowing | 15 | 6 | 0.5 | 0.5 | 0 | 02 | 02 | 0 | 0 | 4000 | 6500 | 2500 | 38.64 |
| Happy Seeder | Wheat | Residue management | 15 | 20 | 0.5 | 0.5 | 0 | 02 | 02 | 0 |  | 4000 | 5000 | -1000 | - 20.0 |

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

**\*\* BCR= GROSS RETURN/GROSS COST**

Demonstration details on crop hybrids

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Name of the Hybrid | No. of  farmers | Area  (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
| Cereals |  |  |  | Demo | Local check | % change | Gross  Cost | Gross  Return | Net  Return | BCR |
| Bajra |  |  |  |  |  |  |  |  |  |  |
| Maize |  |  |  |  |  |  |  |  |  |  |
| Paddy |  |  |  |  |  |  |  |  |  |  |
| Sorghum |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |
| Castor |  |  |  |  |  |  |  |  |  |  |
| Mustard |  |  |  |  |  |  |  |  |  |  |
| Safflower |  |  |  |  |  |  |  |  |  |  |
| Sesame |  |  |  |  |  |  |  |  |  |  |
| Sunflower |  |  |  |  |  |  |  |  |  |  |
| Groundnut |  |  |  |  |  |  |  |  |  |  |
| Soybean |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |
| Greengram |  |  |  |  |  |  |  |  |  |  |
| Blackgram |  |  |  |  |  |  |  |  |  |  |
| Bengalgram |  |  |  |  |  |  |  |  |  |  |
| Redgram |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Vegetable crops |  |  |  |  |  |  |  |  |  |  |
| Bottle gourd |  |  |  |  |  |  |  |  |  |  |
| Capsicum |  |  |  |  |  |  |  |  |  |  |
| Cucumber |  |  |  |  |  |  |  |  |  |  |
| Tomato |  |  |  |  |  |  |  |  |  |  |
| Brinjal |  |  |  |  |  |  |  |  |  |  |
| Okra |  |  |  |  |  |  |  |  |  |  |
| Onion |  |  |  |  |  |  |  |  |  |  |
| Potato |  |  |  |  |  |  |  |  |  |  |
| Field bean |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Commercial crops |  |  |  |  |  |  |  |  |  |  |
| Cotton |  |  |  |  |  |  |  |  |  |  |
| Coconut |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Fodder crops |  |  |  |  |  |  |  |  |  |  |
| Napier (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Maize (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Sorghum (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |

Technical Feedback on the demonstrated technologies

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Crop** | **Feed Back** |
| 1. | Organic farming | Satisfactory & high rate of adoption |
| 2. | Mushroom Spawn Production |
| 3. | Drumstick leaves |
| 4. | Mentha (ridge bund system) |
| 5. | Agriculture marketing |
| 6. | Paddy transplanter | 1. High skill is required in mat nursery raising 2. High machine cost 3. Non-availability of spares 4. Well developed system of manual transplanting |
| 7. | DSR | 1. Very high irrigation cost for field preparation 2. Incidence of weedy rice 3. Lodging at the time of maturity 4. Higher seed rate than transplanted rice 5. Lack of specialized machine |
| 8 | ZT wheat | 1. Less availability of machine 2. Crop reside in the field 3. Lack of calibration knowledge |
| 9. | Happy seeder | 1. Uneven distribution of crop residue in the field 2. High initial cost 3. Lack of awareness |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
| 1. | Field days | 16.06.2017 | 01 | 57 | Moong |
| 2. |  | 22.06.2017 | 01 | 20 | Moong |
| 3. |  | 28.06.2017 | 01 | 55 | Linseed |
| 4. |  | 04.07.2017 | 01 | 51 | Paddy Transplanter |
| 5. |  | 25.08.2017 | 01 | 89 | DSR |
| 6. |  | 13.11.2017 | 01 | 114 | DSR |
| 7. |  | 15.11.2017 | 01 | 164 | DSR |
| 8. |  | 16.11.2017 | 01 | 70 | FPO |
| 9. | Farmers Training | 06.10.2017 | 01 | 49 | Mushroom grower |
| 10. |  | 06.10.2017 | 01 | 30 | Animal Husbandry |
| 11. |  | 30.10.2017 | 02 | 50 | Orchard Management |
| 12. |  | 31.10.2017 | 01 | 54 | Rabi vegetables |
| 13. |  | 01.11.2017 | 01 | 30 | Skill development |
| 14. |  | 06.11.2017 | 07 | 40 | Animal Husbandry |
| 15. |  | 07.11.2017 | 01 | 30 | Animal Husbandry |
| 16. |  | 15.11.2017 | 01 | 55 | Button mushroom production |
| 17. |  | 16.11.2017 | 01 | 50 | Oyster mushroom production |
| 18. |  | 17.11.2017 | 01 | 89 | Production technology of pulse. |
| 19. | Media coverage |  | 25 | Mass | Mushroom production |
| 20. |  |  |  | Mass | Mushroom spawn production |
| 21 |  |  |  | Mass | International Soil health day & soil collection & analysis |
| 22 |  |  |  | Mass | Organic farming |
| 23 |  |  |  | Mass | Value addition |
| 24 |  |  |  | Mass | Agriculture marketing |
| 25 |  |  |  | Mass | Petroleum conservation |
| 26 |  |  |  | Mass | Protective cultivation |
| 27 | Training for extension functionaries | 22.10.2017 | 01 | 12 | Package & practices of vegetable crop through organic farming |
| 28 |  | 23.10.2017 | 01 | 12 | Package & practices of pulse crop through organic farming |
| 29 |  | 24.10.2017 | 01 | 12 | Use vermi-compost in organic farming |
| 30 |  | 25.10.2017 | 01 | 05 | Package & practices of oilseed crop through organic farming |
| 31 |  | 26.10.2017 | 01 | 05 | Marketing of organic vegetable |
| 32 |  | 27.10.2017 | 01 | 22 | Wages & means of income generation |
| 33 |  | 28.10.2017 | 01 | 10 | Mushroom spawn production |
| 34 |  | 29.10.2018 | 01 | 10 | Line sowing of oilseed & pulses |
| 35 |  | 30.10.2017 | 01 | 10 | Vegetable production in rabi season |
| 36 | Field days  DSR, MTR, Happy seeder | 12-15 Dec 2017 | 06 | 124 | Satisfactory |
| 37 | Farmers Training  MTR  DSR | During season | 05  06 | 122  168 | Satisfactory |
| 38 | Media coverage |  | 05 | Mass |  |
| 39 | Training for extension functionaries |  | 05 | 145 |  |
| 40 | Travelling Seminar |  | 03 | 155 |  |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2017 and Rabi 2017-18:**

1. **Technical Parameters:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield  (q/ha) | Yield gap (Kg/ha)  w.r.to | | | Name of Variety + Technology  demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized  (%) | | |
| District  yield (D) | State  yield (S) | Potential  yield (P) |
| Max. | Min. | Av. | D | S | P |
| 1 | Chick pea | Chhota chana | 12.6 | 90.0 | 10.0 | 740 | PG-186 + herbicide + Soil testing + Biofertilizer | 66 | 30 | 19.5 | 17.5 | 18.5 | 27 | 31 | 7.5 |
| 2. | Lentil | Chhota Masur | 10.8 | 245 | 360 | 920 | HUL-57 + herbicide + Soil testing + Biofertilizer | 55 | 30 | 18.5 | 16.3 | 17.4 | 23.8 | 17.2 | 13 |
| 3. | Field pea | Mota Mattar | 13.5 | 100 | 50 | 750 | Aman + herbicide + Soil testing + Biofertilizer | 25 | 10 | 19.5 | 17.2 | 18.35 | 20.9 | 23.7 | 12.6 |
| 4. | Pigeon pea (Kharif) | Lal Arhar | 11.6 | 180 | 190 | 890 | BSMR-736 + herbicide + Soil testing + Biofertilizer | 25 | 20 | 17.2 | 14.2 | 15.7 | 14.6 | 14.01 | 23.41 |
| 5. | Mustard | Chhota Sarson | 10 | 90 | 320 | 1000 | PM-28 + herbicide + Soil testing + Sulphur | - | 50 | 19.8 | 18.2 | 19 | 42.63 | 30.52 | 5 |
| 6. | Linseed | Chhota Tisi | 8 | 20 | 60 | 60 | JLS-67 + herbicide + Soil testing + Sulphur | - | 10 | 14.2 | 12.6 | 13.4 | 38.8 | 35.82 | 10.6 |

1. **Economic parameters**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Variety demonstrated & Technology demonstrated | Farmer’s Existing plot | | | | Demonstration plot | | | |
| Gross Cost  (Rs/ha) | Gross return  (Rs/ha) | Net Return  (Rs/ha) | B:C  ratio | Gross Cost  (Rs/ha) | Gross return  (Rs/ha) | Net Return  (Rs/ha) | B:C  ratio |
| 1 | PG-186 + herbicide + Soil testing + Biofertilizer | 34000 | 63000 | 29000 | 1.85 | 35000 | 92500 | 57500 | 2.64 |
| 2 | HUL-57 + herbicide + Soil testing + Biofertilizer | 33000 | 43200 | 13200 | 1.3 | 34000 | 69600 | 35600 | 2.04 |
| 3 | Aman + herbicide + Soil testing + Biofertilizer | 33500 | 60750 | 27250 | 1.8 | 34000 | 82575 | 48575 | 2.42 |
| 4 | BSMR-736 + herbicide + Soil testing + Biofertilizer | 25000 | 46400 | 21400 | 1.86 | 26000 | 62800 | 36800 | 2.41 |
| 5 | PM-28 + herbicide + Soil testing + Sulphur | 15800 | 40000 | 24200 | 2.53 | 17500 | 76000 | 58500 | 4.34 |
| 6 | JLS-67 + herbicide + Soil testing + Sulphur | 30000 | 36000 | 16000 | 1.8 | 22000 | 60300 | 38300 | 2.74 |

1. **Socio-economic impact parameters**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Crop and variety  Demonstrated | Total Produce  Obtained (kg) | Produce sold  (Kg/household) | Selling  Rate  (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
| 1. | PG-186 + herbicide + Soil testing + Biofertilizer | 55500 | 54000 | 50 | 1400 | 150 | Personal development & housing strengthness | 02 |
| 2. | HUL-57 + herbicide + Soil testing + Biofertilizer | 52200 | 52000 | 40 | 150 | 50 | Personal development & housing strengthness | 02 |
| 3. | Aman + herbicide + Soil testing + Biofertilizer | 18350 | 18000 | 45 | 250 | 100 | Personal development & housing strengthness | 01 |
| 4. | BSMR-736 + herbicide + Soil testing + Biofertilizer | 31400 | 31000 | 40 | 350 | 50 | Personal development & housing strengthness | 02 |
| 5. | PM-28 + herbicide + Soil testing + Sulphur | 95000 | 94500 | 40 | 400 | 100 | Personal development & housing strengthness | 02 |
| 6. | JLS-67 + herbicide + Soil testing + Sulphur | 26800 | 26500 | 45 | 220 | 80 | Personal development & housing strengthness | 01 |

1. **Oilseed Farmers’ perception of the intervention demonstrated**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Technologies demonstrated  (with name) | Farmers' Perception parameters | | | | | |
| Suitability to their farming system | Likings  (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1 | PM-28 + herbicide + Soil testing + Sulphur | This variety is suitable for Rohtas district's farmers | ATMA, Rohtas, BAGRI & DSCO, Rohtas | NSC, BAU, KVK | No | Yes | Timely sanction & funding |
| 2 | JLS-67 + herbicide + Soil testing + Sulphur |  |  |  |

1. **Specific Characteristics of Technology and Performance**

|  |  |  |  |
| --- | --- | --- | --- |
| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
| Resistant to pod borer | High yielding variety | PG-186 vs. Chhota Chana | PG-186 is good for Rohtas district & also suitable for late sown condition |
| Resistant to wilt | High yielding variety | HUL-57 vs. Chhota Masur | This variety is suitable for Rohtas district. |
| Resistant to wilt | High yielding variety | Aman vs. Mota Mattar | Suitable for late sown condition |
| Resistant to sterility | Significant | BSMR-736 vs. Lal Arhar | Malaviya-13 is more profitable than BSMR-736 |
| More branches | No. of podes 600-625 | PM-28 vs. Chhota Sarson | This variety is most suitable for Rohtas |
| Suitable for para crops | High yielding variety | JLS-67 vs. Chhota Tisi | This variety is suitable for Rohtas |

1. **Extension activities under CFLD conducted:**

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
| **1.** | Field Day | 05.03.2018, Village- Baruna, Bikramganj | **102** |
| **2.** | Field Day | 06.03.2018, Village- Dehri, Dinara | **25** |
| **3.** | Field Day | 07.03.2018, Village- Akhora, Dinara | **98** |
| **4.** | Field Day | 09.03.2018, Village - Sikariya, Sasaram | **103** |
| **5.** | Field Day | 09.03.2018, Village- Babhani, Karahagar | **95** |
| **6.** | Field Day | 11.03.2018, Village- Dihra, Dinara | **105** |
| **7.** | Field Day | 12.03.2018, Village- Shivpur, Sasaram | **97** |
| **8.** | Field Day | 13.03.2018 Village- Dhangain, Bikramganj | **101** |
| **9.** | Field Day | 14.03.2018, Village- Kamalpur, Karahgar | **90** |
| **10.** | Field Day | 15.03.2018, Village- Tumba, Rohtas | **110** |
| **11.** | Field Day | 16.03.2018, Village- Babu Ke Bahuara, Kochas | **92** |
| **12.** | Field Day | 28.03.2018, Village- Jamodhi, Bikramganj | **63** |

1. **Sequential good quality photographs (as per crop stages i.e. growth & development)**

** **

1. **Farmers' training photographs**

** **

1. **Quality Action Photographs of field visits/field days and technology demonstrated.**

 

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop  (provide crop wise information ) | Items | Budget  Received  (Rs.) | Budget  Utilization  (Rs.) | Balance  (Rs.) |
| Pulses | i) Critical input | 607500 | 602500 | 5000 |
| ii) TA/DA/POL etc. for monitoring | 10000 | 10000 | Nil |
| iii) Extension Activities (Field day) | 55000 | 55000 | Nil |
| iv) Publication of literature | 2500 | 2500 | Nil |
|  | **Total** | **675000** | **670000** | **5000** |
| Oilseeds | i) Critical input | 360000 | 351000 | 9000 |
| ii) TA/DA/POL etc. for monitoring | 6000 | 6000 | Nil |
| iii) Extension Activities (Field day) | 32000 | 32000 | Nil |
| iv) Publication of literature | 2000 | 2000 | Nil |
|  | **Total** | **400000** | **391000** | **9000** |

1. **List of Farmer under CFLD (Pulses & Oilseed)**

**Crop1: Lentil**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
|  |  |  |  |  | Latitude | Longitude |  |  |  |
| Birandrar Kumar | Guptashar Singh | Bensagar | Karakat | 9955261831 | 25.14.328 | 84.11.992 | Yes | 20 | 0.50 |
| Bindeswari Singh | Awadh bihari singh | Amethi | Sanjhauli | 9006933045 | 25.14.133 | 84.02.798 | Yes | 10 | 0.25 |
| Satyanarayan singh | Ganga dayal Singh | Akodha, | Dinara | 9507863891 | 25.14.140 | 84.00.790 | Yes | 20 | 0.50 |
| Satyendra Singh | Musafi Singh | Dihara, | Dinara | 7779887466 | 25.12.588 | 84.02.412 | Yes | 20 | 0.50 |
| Srikant Singh | Tejbaali Singh | Dihara, | Dinara | 7079004777 | 25.12.590 | 84.02.415 | Yes | 20 | 0.50 |
| Shashi Ranjan Kumar | Bhikhari Rai | Shurhuriya, | Suryapura | 8877447571 | 25.16.752 | 84.02.410 | Yes | 30 | 0.75 |
| Bhikhari Rai | Bishwanath Rai | Shurhuriya | Suryapura | 8969437446 | 25.16.755 | 84.11.706 | Yes | 30 | 0.75 |
| Ramashankar Rai | Jaganath Rai | Karahasi, | Dinara | 9572009241 | 25.09.285 | 084.07.075 | Yes | 30 | 0.75 |
| Shiva Sankar Rai | Jaganath Rai | Karahasi, | Dinara | 9546093919 | 25.09.288 | 84.07.080 | Yes | 20 | 0.50 |
| Chinta Mani Devi | Vijay Bahadur Singh | Kamalpur | Karahgar | 9006320523 | 25.07.812 | 84.00.587 | Yes | 20 | 0.50 |
| Sant Belas Ojha | Ramdayal Ojha | Kamalpur | Karahgar | 9572710628 | 25.07.815 | 84.00.589 | Yes | 15 | 0.30 |
| Dadan Singh | Ramsigasan Singh | Saraontola | Dinara | 8292442748 | 25.12.180 | 84.08.616 | Yes | 25 | 0.50 |
| Janardan Kumar | Rupu Singh | Mishripur | Sasaram | 8862870248 | 24.07.869 | 084.01.873 | Yes | 16 | 0.40 |
| Mokhtar Sharma | Bhikhari sharma | Siyawank | Sasaram | 9934846177 | 25.05.821 | 84.11.742 | Yes | 40 | 1.00 |
| Lal Babu Singh | Mathura Singh | Sultanpur | Rajpur | 8578082703 | 25.04.331 | 84.09.063 | Yes | 40 | 1.00 |
| Munna Kumar Patel | Krishana Choudhry | Sultanpur | Rajpur | 9771184395 | 25.04.335 | 84.09.065 | Yes | 40 | 1.00 |
| Pritam Pushpek | Krishanashankar Pandit | Chandanpura | Tilouthu | 9507560913 | 24.49.657 | 84.02.621 | Yes | 10 | 0.25 |
| Lilavati Devi | Ramdeo Singh | Chandanpura | Tilouthu | 7255038450 | 24.49.660 | 84.02.625 | Yes | 10 | 0.25 |
| Shivshankar Kumar | Bhagatnath Mahto | Chandanpura | Tilouthu | 7643815125 | 24.49.662 | 84.02.628 | Yes | 10 | 0.25 |
| Vinay Prakash Sah | Gaya Sah | Chandanpura | Tilouthu | 9931445801 | 24.49.665 | 84.02.630 | Yes | 10 | 0.25 |
| Pardip Kumar | Ramsigasan Singh | Saraontola | Dinara | 8298656534 | 25.12.180 | 84.08.616 | Yes | 30 | 0.75 |
| Akhilesh Tiwari |  | Siyawak | Rajpur | 9939485588 | 25.58.557 | 84.58.096 | Yes | 20 | 0.50 |
| Nirmala Singh | Kuwar Chandra pratap Singh | Siyawak | Rajpur | 7050657774 | 25.60.558 | 84.60.097 | Yes | 40 | 1.00 |
| Gautum Prasad Singh |  | Aliganj | Suryapura | 9430131440 | 25.15.661 | 84.14.874 | Yes | 10 | 0.25 |
| Kali Prasad Singh | Nanak Singh | Dhangain | Bikramganj | 9661445657 | 25.05.821 | 84.11.742 | Yes | 10 | 0.25 |
| Vadprakash Chaubey | Jaikishor Chaubey | Durgadih | Bikramganj | 9801433276 | 25.13.380 | 84.14.605 | Yes | 30 | 0.75 |
| Virendra Mishra | Shivmangal Mishra | Durgadih | Bikramganj | 9431838727 | 25.14.746 | 84.16.518 | Yes | 20 | 0.50 |
| Jai Prakash Mahto | Bhagirathi Mahto | Chandanpura, | Tilouthu | 9162693408 | 25.14.750 | 84.16.520 | Yes | 20 | 0.50 |
| Ajay Kumar | Ramakant Singh | Dharkandha Khurd | Dawath | 9931206824 | 24.49.657 | 84.02.021 | Yes | 30 | 0.75 |
| Pankaj Kumar | Kamalakant Singh | Dharkandha Khurd | Dawath | 8809823212 | 25.21.078 | 84.10.908 | Yes | 20 | 0.50 |
| Ravishankar Singh | Suddu Prasad Singh | Mohni | Bikramganj | 9771875032 | 25.21.080 | 84.10.910 | Yes | 30 | 0.75 |
| Sanjay Prasad Gupta | Raghunath Sah | Bishanpura | Nokha | 9431834369 | 25.15.468 | 84.19.416 | Yes | 10 | 0.25 |
| Anil Kumar | Kamla Prasad Singh | Dhangain | Bikramganj | 9504525926 | 25.15.674 | 84.13.941 | Yes | 20 | 0.50 |
| Kamata Prasad Singh | Hari Nandan Singh | Dhangain | Bikramganj | 7739419505 | 25.13.382 | 84.14.608 | Yes | 20 | 0.50 |
| Om prakash Ram | Kamata Paswan | Keshodhi | Bikramganj | 9801689117 | 25.13.385 | 84.14.610 | Yes | 15 | 0.40 |
| Afraja Ansari | Shabuddin Ansari | Keshodhi | Bikramganj | 9939610175 | 25.09.247 | 84.12.920 | Yes | 15 | 0.40 |
| Babita Devi | Umesh Kumar Singh | Lokeya | Bikramganj | 8002638876 | 25.09.250 | 84.12.922 | Yes | 20 | 0.50 |
| Surendra Kumar Singh | Jamindar Singh | Dhangain | Bikramganj | 8002164365 | 25.11.459 | 84.13.156 | Yes | 20 | 0.50 |
| Dhananjay Singh | Ramsurat Singh | Muswat | Dinara | 9006066898 | 25.13.387 | 84.14.612 | Yes | 20 | 0.50 |
| Ajay Kumar Singh | Krishna Singh | Dhangain | Bikramganj | 8809864726 | 25.10.620 | 84.08.787 | Yes | 10 | 0.25 |
| Ramesh Chaudhry |  | Muswat | Dinara | 8084908561 | 25.13.389 | 84.14.614 | Yes | 30 | 0.75 |
| Ramniwas Singh | chatvi Singh | Muswat | Dinara | 7739062240 | 25.10.623 | 84.08.789 | Yes | 20 | 0.50 |
| Arbind kishor Niraj | Hansraj Singh | Muswat | Dinara | 7654192718 | 25.10.625 | 84.08.790 | Yes | 10 | 0.25 |
| Biraendra Singh | Ramsurat Singh | Muswat | Dinara | 9199665976 | 25.10.628 | 84.08.792 | Yes | 30 | 0.75 |
| Sumitra Devi | Rajvansh Singh | Muswat | Dinara | 9193657119 | 25.10.630 | 84.08.795 | Yes | 20 | 0.50 |
| Ajit Kumar Patel | Rajaram Chaudhry | Muswat | Dinara | 9955044524 | 25.10.632 | 84.08.798 | Yes | 20 | 0.50 |
| Surendra Chaudhry | Ramdas Chaudhry | Muswat | Dinara | 9771197566 | 25.10.635 | 84.08.800 | Yes | 20 | 0.50 |
| Ranjeet Prakash | Sakaldeep Rai | Tenuai | Dinara | 8873885355 | 25.10.638 | 84.08.802 | Yes | 40 | 1.00 |
| Sunil Kumar Pandey | Baban Pandey | Nadauan | Dinara | 9572226769 | 25.13.763 | 84.08.966 | Yes | 20 | 0.50 |
| Tribhuban Pandey | Bansidhar Pandey | Udhopur | Bikramganj | 9234626685 | 25.13.615 | 84.06.865 | Yes | 20 | 0.50 |
| Rakesh Kumar Pandey | Nand Kishor Pandey | Nadauan | Dinara | 9473194031 | 25.12.037 | 84.13.600 | Yes | 20 | 0.50 |
| Naval Kishor Pandey | Ram Chabila Pandey | Nadauan | Dinara | 9771277577 | 25.13.619 | 84.06.868 | Yes | 30 | 0.75 |
| Dulari Devi | Lal Babu Singh | Dhangain | Bikramganj | 9852978414 | 25.13.620 | 84.06.870 | Yes | 20 | 0.50 |
| Rahul Kumar Singh | Mahendra Singh | Dhangain | Bikramganj | 8809611483 | 25.13.404 | 84.14.623 | Yes | 20 | 0.50 |
| Nirmala Singh | Kauwarchandra Pratap singh | Siyawak | Sasaram | 7050647774 | 25.13.405 | 84.14.625 | Yes | 40 | 1.00 |

**Crop 2- Chick Pea**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
| Latitude | Longitude |
| Shashikant Singh | Sri Avadh Bihari singh | Eghara | Nokha | 9128011919 | 25.03.166 | 84.10.278 | Yes | 40 | 0.5 |
| Indu Devi | Sambhu Singh | Motha | Karakat | 9431486313 | 25.10.278 | 84.18.113 | Yes | 40 | 0.5 |
| Bhola Yadav | Bishwnath Yadav | Noav | Bikramganj | 7250687990 | 25.16.119 | 84.18.873 | Yes | 20 | 0.25 |
| Vyas muni Singh | Bishwnath Singh | Dihara | Dinara | 9939954291 | 25.12.580 | 84.02.412 | Yes | 40 | 0.5 |
| Bijay Kumar Pandey | Banshidhar Pandey | jogeyan | Bikramganj | 9931620637 |  |  | Yes | 20 | 0.25 |
| Krishna Kumar Singh | Vishwnath Singh | Motha | Karakat | 9973434472 | 25.10.280 | 84.18.115 | Yes | 40 | 0.5 |
| Shyam Bihari Singh | Gupteswar Singh | Bensagar | Karakat | 8294937859 | 25.14.036 | 84.11.930 | Yes | 40 | 0.5 |
| Bindeswari Prasad Singh | Awadh bihari Singh | Amethi | Sanjhouli | 9006933045 | 25.14.133 | 84.00.798 | Yes | 40 | 0.5 |
| Indrasan Singh | Ganga dayal Singh | Akodha | Dinara | 9135854772 | 25.14.133 | 84.00.789 | Yes | 20 | 0.25 |
| Shaila Devi | Satendra Singh | Dihara | Dihara | 9708656062 | 25.12.587 | 84.02.410 | Yes | 40 | 0.5 |
| Bhikhari rai | Bishawnath Rai | Surhuriya | Suryapura | 9431678969 | 25.16.937 | 84.11.655 | Yes | 40 | 0.5 |
| Vikash Kumar | Nand kishor Rai | Karahansi | Dinara | 8292787727 | 25.09.285 | 84.07.075 | Yes | 32 | 0.4 |
| Nand kishor Rai | Jaganath Rai | Karahansi | Dinara | 9709646101 | 25.09.287 | 84.07.078 | Yes | 32 | 0.4 |
| Pinki Devi | Gyan bahadur Singh | Kamalpur | Karahgar | 7463964786 | 25.10.090 | 83.44.095 | Yes | 20 | 0.25 |
| Krishna kant Ojha | Savtbelas Ojha | Kamalpur | Karahgar | 8292971186 | 25.10.011 | 83.44.098 | Yes | 20 | 0.25 |
| Janardan Singh | Rupu Singh | Mishripur | Sasaram | 8862870248 | 24.07.860 | 84.02.873 | Yes | 40 | 0.5 |
| Niramala Singh | Kuwar chandra pratap Singh | Siyawak | Rajpur | 7050647774 | 25.05.821 | 84.11.762 | Yes | 40 | 0.5 |
| Ashok kumar Singh | Jagdish Singh | Jambu | Rohtas | 9546620262 | 24.45.157 | 84.01.093 | Yes | 40 | 0.5 |
| Ramashankar Pandit | Jagdish Pandit | Chandanpura | Tilouthu | 7091218697 | 24.48.657 | 84.02.612 | Yes | 60 | 0.75 |
| Sanjay kumar Ray | Kamaldeo Roy | Baruna | Bikramganj | 9572900905 | 25.13.780 | 84.18.875 | Yes | 40 | 0.5 |
| Akhilesh Tiwari | Ramasankar Tiwari | Rampur jai | Sasaram | 9939485588 | 24.58.957 | 83.58.025 | Yes | 40 | 0.5 |
| Amrendra kumar pathak | Jagat narayan Pathak | Saisar | Dinara | 9801778582 | 25.21.172 | 84.04.037 | Yes | 40 | 0.5 |
| Arbind kumar | Jagat narayan Pathak | Saisar | Dinara | 9471988850 | 25.21.175 | 84.04.040 | Yes | 40 | 0.5 |
| Jetendra kumar Pathak |  | Saisar | Dinara | 9006199169 | 25.21.185 | 84.04.045 | Yes | 40 | 0.5 |
| Yadvendra kumar Pathak |  | Saisar | Dinara | 9931011444 | 25.21.189 | 84.04.049 | Yes | 40 | 0.5 |
| Gautam prasad Singh | Anant Singh | Aliganj | Sispura | 9430131440 | 25.15.661 | 84.14.874 | Yes | 20 | 0.25 |
| Karan kumar | Kali prasad Singh | Dhangai | Bikramganj | 9661445657 | 25.13.404 | 84.14.623 | Yes | 20 | 0.25 |
| Sima Devi | Ravi bhushan Pandey | Tikpokhar | Dawat | 9810722078 | 25.26.371 | 84.20.720 | Yes | 40 | 0.5 |
| Sanjay prasad Gupta | Raghunath Prasad | Bishanpura | Nokha | 9431834369 | 25.15.647 | 84.13.921 | Yes | 20 | 0.25 |
| Kamla kumar Singh | Harinandan Singh | Dhangai | Bikramganj | 8294112187 | 25.13.414 | 84.14.480 | Yes | 20 | 0.25 |
| Rupesh Kumar | Kedar Prasad | Kishodih | Bikramganj | 9708784121 | 25.09.145 | 84.12.856 | Yes | 40 | 0.5 |
| Babita Devi | Umesh kumar Singh | Lokeya | Bikramganj | 8002638876 | 25.11.409 | 84.13.137 | Yes | 20 | 0.25 |
| Surendra kumar Singh | Jamindar Singh | Dhangai | Bikramganj | 8002164365 | 25.13.273 | 84.14.891 | Yes | 20 | 0.25 |
| Rajkumari Devi | Arbind kumar Singh | Bhabhni | Karahgar | 7781887907 | 25.03.733 | 83.59.670 | Yes | 40 | 0.5 |
| Jago Devi | lalan Singh | Bhabhni | Karahgar | 8002031638 | 25.03..740 | 83.59.675 | Yes | 40 | 0.5 |
| Dhananjay Singh | Ramsurat Singh | Muswad | Dinara | 9006066898 | 25.09.643 | 84.08.789 | Yes | 40 | 0.5 |
| Ramesh Chaudhary | Lakshman Chaudhary | Muswad | Dinara | 8084908561 | 25.09.645 | 84.08.792 | Yes | 40 | 0.5 |
| Sunilkumar Pandey | Baban Pandey | Nadauan | Dinara | 9572226769 | 25.13.675 | 84.06.665 | Yes | 40 | 0.5 |
| Ranjeet Prakash | Sakaideep Rai | Tenuai | Dinara | 8873885355 | 25.13.763 | 84.08.966 | Yes | 40 | 0.5 |
| Beerbahadur kumar Singh | Ramjanam Rai | Jamodhi | Bikramganj | 9431434853 |  |  | Yes | 80 | 1 |
| Tribhuban Upadhay | Banshidhar Upadhay | Udhopur | Bikramganj | 9234626685 | 25.12.035 | 84.13.604 | Yes | 20 | 0.25 |
| Rakesh kumar Pandey | Nandkishor Pandey | Nadauan | Dinara | 9473194031 | 25.13.680 | 84.06.668 | Yes | 40 | 0.5 |
| Naval kishor Pandey | Ramchabila Pandey | Nadauan | Dinara | 9771277577 | 25.13.682 | 84.06.670 | Yes | 40 | 0.5 |
| Janeshwar Pandey | Ambika Pandey | Nadauan | Dinara | 9546111586 | 25.13.685 | 84.06.675 | Yes | 40 | 0.5 |
| Rakesh kumar | Rajkishor Singh | Maidhra | Bikramganj | 9128981642 | 25.14.038 | 84.11.980 | Yes | 40 | 0.5 |
| Dhananjay kumar Singh | Baliram Singh | Derhgaon | Dawath | 8582049063 | 25.17.886 | 84.18.210 | Yes | 40 | 0.5 |
| Yaswant kumar Singh | Baliram Singh | Derhgaon | Dawath | 7352814284 | 25.17.890 | 84.18.212 | Yes | 40 | 0.5 |
| Dulari Devi | Lalbabu Singh | Dhangai | Bikramganj | 9852978414 | 25.13.404 | 84.14.623 | Yes | 25 | 0.3 |
| Rahul Kumar | Mahendar Singh | Dhangai | Bikramganj | 8809611483 | 25.13.406 | 84.14.625 | Yes | 25 | 0.3 |
| Vikash kumar Singh | Raj kishor Singh | Maidhra | Bikramganj | 8084703342 | 25.14.038 | 84.12.001 | Yes | 40 | 0.5 |
| Sriram Singh | Late Ramdarash Singh | Dharkhan khurd | Dawath | 9572481927 | 25.21.078 | 84.10.908 | Yes | 40 | 0.5 |
| Sabita Devi | Satendra Singh | Masona | Sanjhauli | 9162032637 | 25.08.584 | 89.08.786 | Yes | 40 | 0.5 |
| Ritu Devi | Umakant Singh | Masona | Sanjhauli | 8873573133 | 25.08.586 | 89.08.788 | Yes | 40 | 0.5 |
| Sandhya Devi | Unesh kumar Singh | Masona | Sanjhauli | 7654048252 | 25.08.588 | 89.08.790 | Yes | 40 | 0.5 |
| Santi Devi | Santosh Singh | Masona | Sanjhauli | 9572935154 | 25.08.586 | 89.08.792 | Yes | 40 | 0.5 |
| Radhika Devi | Dhanji Singh | Masona | Sanjhauli | 9006328532 | 25.08.592 | 89.08.795 | Yes | 40 | 0.5 |
| Dhanbarta Devi | Harishankar Singh | Masona | Sanjhauli | 8809612535 | 25.08.595 | 89.08.798 | Yes | 40 | 0.5 |
| Mohan Singh | Hari Singh | Lalganj | Sasaram | 9939611141 | 24.58.459 | 84.01.260 | Yes | 40 | 0.5 |
| Ayadha Singh | Hari Singh | Lalganj | Sasaram | 9097420352 | 24.58.459 | 84.01.266 | Yes | 40 | 0.5 |
| Niramal kumar Singh | Chandradeo Singh | Tenduni | Bikramganj | 9473345679 | 25.13.550 | 84.15.895 | Yes | 20 | 0.25 |
| Vijay kumar Singh | Kapil deo Singh | Karmaini | Bikramganj | 8809614782 | 25.06.099 | 84.11.716 | Yes | 20 | 0.25 |
| Dadan Singh | Sigasan Singh | Sahari | Karakat | 7260909897 | 25.09.321 | 84.16.489 | Yes | 20 | 0.25 |
| Umesh kumar Azad | Raghunath Singh | Kushariya | Karakat | 9955084527 | 25.08.416 | 84.14.924 | Yes | 20 | 0.25 |
| Sri Niwas Singh | Indradeo Singh | Tenduni | Bikramganj |  | 25.13.550 | 84.15.895 | Yes | 20 | 0.25 |
| Kamendra kKumar | Dinanath Singh | Tenduni | Bikramganj |  | 25.13.552 | 84.15.897 | Yes | 20 | 0.25 |

**Crop 3- Field Pea**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
| Satnarayan Singh | Sri Ganga Dayal Singh | Akhora | Dinara | 9507863891 | 25.14.133 | 84.00.789 | Yes | 40 | 0.5 |
| Ravi Ranjan Kumar | Bhikhari Rai | Surhuriya | Suryapura | 8877315798 | 25.16.752 | 84.11.704 | Yes | 30 | 0.4 |
| Rama Shankar Rai | Jaganath Rai | Karahansi | Dinara | 9572009241 | 25.09.285 | 84.07.075 | Yes | 20 | 0.25 |
| Shiva Shankar Rai | Jaganath Rai | Karahansi | Dinara | 6546093919 | 25.09.287 | 84.07.078 | Yes | 20 | 0.25 |
| Pinki Devi | Gayan Bahadur Singh | Kamalpur | Karahgar | 7463964786 | 25.07.812 | 84.00.587 | Yes | 60 | 0.75 |
| Sant Belas Ojha | Ram Dayal Ojha | Kamalpur | Karahgar | 9572710628 | 25.07.813 | 84.00.589 | Yes | 20 | 0.25 |
| Janaradan Kumar | Rupu Singh | Mishripur | Sasaram | 8862870248 | 24.07.869 | 84.01.876 | Yes | 32 | 0.4 |
| Gupteswar Singh | Harakh Singh | Tumba | Rohtas | 9955121486 | 24.45.157 | 84.01.937 | Yes | 40 | 0.5 |
| Dadan Singh | Ramsinghasan Singh | Sarontola | Dinara | 8292442748 | 25.12.180 | 84.08.616 | Yes | 960 | 0.75 |
| Shiva Shankar Kumar | Bhagirathi Mahto | Chandanpura | Tilouthu | 7643815125 | 24.49.657 | 84.02.621 | Yes | 20 | 0.25 |
| Jai Prakash Mahto |  | Chandanpura | Tilouthu | 9162693408 | 24.49.658 | 84.02.625 | Yes | 20 | 0.25 |
| Ramdeo Singh | Ramdarash Singh | Dharkandhu Khurd | Dawath | 7250816471 | 25.21.078 | 84.10.908 | Yes | 20 | 0.25 |
| Sanjay Prasad Gupta | Raghunath Sah | Bishanpura | Nokha | 9431834369 | 25.16.645 | 84.13.941 | Yes | 20 | 0.25 |
| Vinay Prakash Sah | Gaya Sah | Chandanpura | Tilouthu | 9931445801 | 24.49.657 | 84.02.621 | Yes | 20 | 0.25 |
| Gobind Kumar Singh | Sita Ram Singh | Kulhariya | Karakat | 9431839346 | 25.08.201 | 84.14.720 | Yes | 30 | 0.4 |
| Bhola Singh | Rajendar Singh | Nawan | Bikramganj | 9122231449 | 25.16.120 | 84.18.875 | Yes | 40 | 0.5 |
| Arbind Kumar Singh | Gharbharam Singh | Babhni | Karahgar | 9431427271 | 25.03.204 | 84.14.849 | Yes | 40 | 0.5 |
| Lalan Singh | Gharbharam Singh | Babhni | Karahgar | 8002031638 | 25.03.206 | 84.14.852 | Yes | 60 | 0.75 |
| Tribhuban Upadhay | Bansidhar Upadhay | Udophur | Bikramganj | 9234626685 | 25.12.037 | 84.13.600 | Yes | 20 | 0.25 |
| Dhananjay Kumar Singh | Baliram Singh | Derhgaon | Bikramganj | 7352814284 | 25.17.883 | 84.18.208 | Yes | 20 | 0.25 |
| Sumitra Kuwar | Late Birendar Singh | Akhora | Dinara | 9135854772 | 25.14.133 | 84.00.789 | Yes | 60 | 0.75 |
| Sudarshan Chaudhry | Ramabhekha chaudhry | Dihra | Karakat | 9525622139 | 25.13.508 | 84.15.965 | Yes | 40 | 0.5 |
| Afraja Ansari | Sahabidin Ansari | Kesodhi | Bikramganj | 9939610175 | 25.09.147 | 84.12.851 | Yes | 20 | 0.25 |
| Rishabh Raj | Satnarayan Chaudhry | Laxmanpur | Bikramganj | 7547821920 | 25.10.431 | 84.13.742 | Yes | 20 | 0.25 |
| Rupesh Kumar | Kedar Prasad | Kesodhi | Bikramganj | 9708784121 | 25.09.148 | 84.12.850 | Yes | 20 | 0.25 |

**Crop 3- Pigeon Pea**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
| Latitude | Longitude |
| Ravi kumar | Deocharan Singh | Shivpur | Sasaram | 9102610046 | 23.52.608 | 84.00.102 | Yes | 10 | 0.5 |
| Ashok kumar | Ramcharan Singh | Shivpur | Sasaram | 8809622476 | 23.52.610 | 84.00.103 | Yes | 10 | 0.5 |
| Raj Kumar | Doma ram | Shivpur | Sasaram | 9199697439 | 23.52.603 | 84.00.105 | Yes | 5 | 0.25 |
| Pramod Kumar | Benga Ram | Shivpur | Sasaram | 9852766542 | 23.52.666 | 084.00.108 | Yes | 20 | 1 |
| Manoj Shah | Ramashis sah | Shivpur | Sasaram | 7250603904 | 23.52.668 | 084.00.111 | Yes | 10 | 0.5 |
| Ranjeet Kumar | Suraj Singh | Shivpur | Sasaram | 9199284745 | 23.52.671 | 084.00.120 | Yes | 25 | 1.25 |
| Ratan Singh | Ranvijay Singh | Sikariya | Sasaram | 9546144233 | 20.54.409 | 084.00.508 | Yes | 30 | 1.5 |
| Birendar Singh | Rameshwar Singh | Sikariya | Sasaram | 9162014301 | 20.54.457 | 084.00.510 | Yes | 10 | 0.5 |
| Bigni Devi | Baliram | Sikariya | Sasaram | 7250437873 | 20.54.460 | 084.00.512 | Yes | 5 | 0.25 |
| Dasrath Sharma | Ram mohan Sharma | Sikariya | Sasaram | 9631180083 | 20.54.464 | 084.00.513 | Yes | 15 | 0.75 |
| Shashikant Sharma | Ramgahan Sharma | Sikariya | Sasaram | 8757905381 | 20.54.468 | 084.00.515 | Yes | 15 | 0.75 |
| Anand Sharma | Dasrath Sharma | Sikariya | Sasaram | 9631180083 | 20.54.472 | 084.00.518 | Yes | 10 | 0.5 |
| Rohit Kr.Ranjan | Vijay lal Ram | Sikariya | Sasaram | 9060419008 | 20.54.474 | 084.00.520 | Yes | 10 | 0.5 |
| Kamendra Chandrabansi | Haridwar chandrabansi | Sikariya | Sasaram | 7870017345 | 20.54.478 | 084.00.522 | Yes | 15 | 0.75 |
| Hariom Kumar Singh | Birendra Kumar Singh | Sikariya | Sasaram | 9798640337 | 20.54.480 | 084.00.525 | Yes | 25 | 1.25 |
| Nand Kumar Singh | Gajmohan Singh | Sikariya | Sasaram | 7050966489 | 20.54.482 | 084.00.527 | Yes | 5 | 0.25 |
| Biraj Lal Singh | Sukhari Ram | Sikariya | Sasaram | 8002537133 | 20.54.486 | 084.00.530 | Yes | 5 | 0.25 |
| Prabhat Kr.Singh | Upendra Singh | Sikariya | Sasaram | 7808240389 | 20.54.488 | 084.00.532 | Yes | 20 | 1 |
| Sudarshan Singh | Haridwar Singh | Sikariya | Sasaram | 7749286888 | 20.54.490 | 084.00.535 | Yes | 25 | 1.25 |
| Mahendar Singh | Baldeo Singh | Suwara | Dehri | 9523862213 | 24.55.346 | 084.08.465 | Yes | 15 | 0.75 |
| Santosh Chaudhoury |  | Rangit ganj | Rohtas | 7294899416 | 24.45.386 | 084.07.455 | Yes | 20 | 1 |
| Mumtaz Anashri | Bahadur Ansari | Pebandi | Chenari | 7091411048 | 24.54.467 | 083.47.156 | Yes | 20 | 1 |
| Ramadhar Chandrabansi | Sokha chandra bansi | Ganeshpur | Chenari | 7783874358 | 24.54.007 | 083.47.088 | Yes | 20 | 1 |
| Dhananjay Tiwari | Kedar tiwari | Tetri | Chenari | 8084283769 | 24.53.194 | 083.46.660 | Yes | 40 | 2 |
| Vriji Thakur | Biswanath thakur | Ugahni | Chenari | 8409931531 | 24.50.760 | 083.47.129 | Yes | 15 | 0.75 |
| Gupteshwar Bishwnath | Vishwanath bandu | Malhipur | Chenari | 8002376340 | 24.50.360 | 083.45.802 | Yes | 20 | 1 |

**Crop-4 Mustard**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
| Latitude | Longitude |
| Sitaram singh | Jagropan singh | Jambu | Rohtas | 9199277638 | 24.45.157 | 84.01.937 | Yes | 3 | 0.5 |
| Ramnath kushwaha | Bideshi singh | VIill-Jambu | Rohtas | 9931089226 | 24.45.160 | 84.01.940 | Yes | 3 | 0.5 |
| Birendar singh | Late Gupteswar singh | Bensagar | Bikramganj | 9955261831 | 25.08.654 | 84.13.036 | Yes | 3 | 0.5 |
| Dadan singh | Ramsigasn singh | Sarwantola | Dinara | 8292442748 | 25.12.180 | 84.08.616 | Yes | 3 | 0.5 |
| Lalbabu singh | Srikishun singh | Motha | Karakat | 9631193758 | 25.10.278 | 84.18.113 | Yes | 2.5 | 0.5 |
| Vinod singh | sriramdhari singh | Motha | Karakat | 9162030684 | 25.10.268 | 84.18.113 | Yes | 1.25 | 0.25 |
| Baliram thakur | Late Ramvishun thakur | Motha | Karakat | 7739584744 | 25.10.270 | 84.18.115 | Yes | 1.25 | 0.25 |
| Mokhatar sharma | Late Bhikhari sharma | Dhanva | Siyawak | 9934846177 | 25.05.443 | 84.12.503 | Yes | 6 | 1 |
| Sudhir singh | Late Ramanand singh | Dhava | Siyawak | 7321821268 | 25.05.445 | 84.12.505 | Yes | 6 | 1 |
| Raja ram sharma | Late Sivpujan sharma | Raghunathpur | Karakat | 7543094180 | 25.09.720 | 84.19.246 | Yes | 1.25 | 1.25 |
| Virendra singh | Sriram harma | Raghunathpur | Karakat | 9162629466 | 25.09.722 | 84.19.948 | Yes | 1.25 | 0.25 |
| Ram uday singh | Janardan singh | Motha | Karakat | 7492880920 | 25.10.274 | 84.18.114 | Yes | 1.25 | 0.25 |
| Sambhu singh | Late Baban singh | Motha | Karakat | 9431486313 | 25.10.276 | 84.18.116 | Yes | 1.25 | 0.25 |
| Dilip kumar singh | Sri ram byash | Mohdiganj | Sasaram | 9304068539 | 24.57.982 | 84.02.937 | Yes | 5 | 1 |
| Satendra singh | Lalan singh | Motha | Karakat | 943167891 | 25.10.278 | 84.18.117 | Yes | 2.5 | 0.5 |
| Nagendra prasad singh | Late Ramshis singh | Motha | Karakat | 8757426233 | 25.10.280 | 84.18.119 | Yes | 1.25 | 0.25 |
| Ram kumar singh | Late Raghunand singh | Motha | Karakat | 9771199805 | 25.10.284 | 84.18.120 | Yes | 1.25 | 0.25 |
| Satrunjay singh | Sri Nathun singh | Raghunathpur | Karakat | 9939898179 | 25.09.722 | 84.19.248 | Yes | 2.5 | 0.5 |
| Rajendra singh | Late Police singh | Kechua | Karakat | 9939897817 | 25.10.576 | 84.22.927 | Yes | 2.5 | 0.5 |
| Gayan Bahabur singh | Rang bahadur singh | Kamalpur | Karhgar | 9006210268 | 25.07.812 | 84.00.537 | Yes | 2.5 | 0.5 |
| Vinod ojha | Sri Ram narayan ojha | Kamalpur | Karakat | 9135601829 | 25.07.814 | 84.00.540 | Yes | 2.5 | 0.5 |
| Lalu singh | Late Nathuni singh | Raghunathpur | Karakat | 8804110504 | 25.09.724 | 84.19.250 | Yes | 4.5 | 0.75 |
| Jagnarayan singh | Late Gorakhanath singh | Raghunathpur | Karakat | 8002630341 | 25.09.726 | 84.19.253 | Yes | 4.5 | 0.75 |
| Dinesh kumar singh | Late Ram bachan singh | Raghunathpur | Karakat | 9199356964 | 25.09.723 | 84.19.255 | Yes | 4.5 | 0.75 |
| Sunil singh | Vanshdhar singh | Raghunathpur | Karakat | 9504857731 | 25.09.730 | 84.19.258 | Yes | 2.5 | 0.5 |
| Jasmudin | Nijamudin | Raghunathpur | Karakat | 9771057107 | 25.09.733 | 84.19.261 | Yes | 1.25 | 0.25 |
| Kanhaya pandit |  | Raghunathpur | Karakat | 8002786041 | 25.09.735 | 84.19.264 | Yes | 1.25 | 0.25 |
| Navlakh singh | Late Jagadish singh | Motha | Karakat | 7654667877 | 25.10.375 | 84.17.140 | Yes | 1.25 | 0.25 |
| Umesh kumar singh | Sri Rajnath singh | Motha | Karakat | 8804755753 | 25.10.378 | 84.17.142 | Yes | 1.25 | 0.25 |
| Satyakant singh | Late Bhavnath singh | Motha | Karakat | 7352214101 | 25.10.380 | 84.17.145 | Yes | 1.25 | 0.25 |
| Sankar kumar | Asapujan singh | Motha | Karakat | 7033636465 | 25.10.389 | 84.17.156 | Yes | 1.25 | 0.25 |
| Radheshayam singh | Late Bhikhari singh | Motha | Karakat | 9546613476 | 25.10.390 | 84.17.158 | Yes | 1.25 | 0.25 |
| Ramjee pandey | Late Sri panday | Motha | Karakat | 7645874816 | 25.10.392 | 84.17.160 | Yes | 1.25 | 0.25 |
| Vinod pandey | Sivnarayan panday | Randhua | Karakat | 8002579058 | 25.10.771 | 84.18.600 | Yes | 1.25 | 0.25 |
| Mahendra pandey | Late Jagdish narayan panday | Dhanchhua | Karakat | 9939181273 | 25.10.773 | 84.18.602 | Yes | 6 | 1ha |
| Gopal pandey | Late Ramshish panday | Dhanchhua | Karakat | 8309931859 | 25.10.777 | 84.18.602 | Yes | 6 | 1ha |
| Upendra kumar pandey | Late Dayanath pandey | Khurmabad | Chenari | 9525071010 | 25.00.545 | 083.50.102 | Yes | 4.5 | 0.75 |
| Satendra kumar pandey | Late Dayanath pandey | Khurmabad | Chenari | 9934940178 | 25.00.548 | 083.50.105 | Yes | 3 | 0.5 |
| Mithelesh kumar tiwari | Jawahar tiwari | Khurmabad | Chenari | 8051520661 | 25.00.550 | 083.50.107 | Yes | 6 | 1 |
| Vikash tiwari | Late Hira tiwari | Khurmabad | Chenari | 9430005537 | 25.00.553 | 083.00.110 | Yes | 6 | 1 |
| Chandeswar ram | Bhutan ram | Khurmabad | Chenari | 9771002436 | 25.00.555 | 083.50.112 | Yes | 6 | 1 |
| Manoj kumar tiwari | Alakhnarayan tiwari | Khurmabad | Chenari | 9708968111 | 25.00.558 | 083.50.114 | Yes | 4.5 | 0.75 |
| Baikunath tiwari | Late Tribhuwan tiwari | Khurmabad | Chenari | 9430656376 | 25.00.560 | 083.50.116 | Yes | 3 | 0.5 |
| Rajesh kumar | Sri Ram kaswar singh | Khurmabad | Chenari | 9507234209 | 25.00.562 | 083.50.181 | Yes | 6 | 1 |
| Yaswant kumar singh | Late Ram sureshli singh | Ramdihra | Tilauthu | 9135238263 | 24.46.674 | 84.01.704 | Yes | 6 | 1 |
| Ranjeet kumar singh | Late Shivshankar singh | Sadokhar | Chenari | 9661866553 | 24.51.980 | 083.49.168 | Yes | 6 | 1 |
| Ram paravesh gosai | Surya gosai | Motha | Karakat | 9939552023 | 25.10.397 | 84.18.164 | Yes | 1.5 | 0.25 |
| Dhramdeo singh | Late Ramsakal singh | Mednipur | Sasaram | 9472674534 | 24.54.480 | 84.04.776 | Yes | 5 | 0.8 |
| Harendar singh | Late Ramdeo singh | Mednipur | Sasaram | 9162190599 | 24.54.482 | 84.04.779 | Yes | 5 | 0.8 |
| Shiiekumar singh | Late Sukhdeo sinh | Mednipur | Sasaram | 7654078238 | 24.54.486 | 84.04.780 | Yes | 1.5 | 2 |
| Umesh singh | Bhagwandayal singh | Gotpa | Bikramganj | 9576366685 | 25.10.569 | 84.16.570 | Yes | 6 | 1 |
| Gautam pandey singh | Late Anant singh | Aliganj | Suryapura | 9430131440 | 25.15.697 | 84.14.904 | Yes | 3 | 0.5 |
| Asok kumar pandey |  | Delhuan | Suryapura | 9934146772 |  |  | Yes | 3 | 0.5 |
| Kalika nau | Ramjanam nau | Motha | karakat | 9546318971 | 25.10.399 | 84.18.166 | Yes | 3 | 0.5 |
| Pratik kumar | Lalan singh | Dhawan | Bikramganj | 9931294887 | 25.14.666 | 84.16.515 | Yes | 3 | 0.25 |
| Bindeswari Prasad singh |  | Amethi | Sanjhauli | 9006933045 | 25.08.138 | 84.08.230 | Yes | 4.5 | 0.75 |
| Baban singh | Dhayn singh | Motha | Karakat | 9973997185 | 25.10.390 | 84.18.160 | Yes | 3 | 5 |
| Ganesh singh | Jamindar singh | Motha | Karakat | 8541068380 | 25.10.393 | 84.18.162 | Yes | 3 | 0.5 |
| Krishna kamlakant Roy | Jagdish Roy | Jhmodhi | Bikramganj | 8229064163 |  |  | Yes | 3 | 0.5 |
| Shayambihar singh | Jamuna Roy | Jhmodhi | Bikramganj | 9470277121 |  |  | Yes | 3 | 0.5 |
| Kiran pandey | Chandramohan pandey | Babuke bahuwara | Kochas | 9955241211 | 25.16.375 | 083.50.952 | Yes | 3 | 0.5 |
| Jagdish singh | Ramkripal singh | Babuke bahuwara | Kochas | 9771850142 | 25.16.377 | 083.50.956 | Yes | 3 | 0.5 |
| Satnarayan singh | Deoraj singh | Babuke bahuwara | Kochas | 7564961238 | 24.54.837 | 84.00.384 | Yes | 3 | 0.5 |
| Rajesh kumar sharma | Dashrath sharma | Sikariya | Sasaram | 9631180083 | 24.53.831 | 083.59.421 | Yes | 3 | 0.5 |
| Naurang paswan | Late Sitaram paswan | Malaw | Sasaram | 9431082327 | 24.54.840 | 84.00.386 | Yes | 6 | 1 |
| Harendar singh | Ramashis singh | Sikariya | Sasaram | 8055211315 | 24.54.842 | 84.00.388 | Yes | 6 | 1 |
| Ramshis singh | Raj Mohan singh | Sikariya | Sasaram | 8055211315 | 24.54.845 | 84.00.385 | Yes | 6 | 1 |
| Pradip kumar | Manoj chandravansi | Sikariya | Sasaram | 9934066121 | 24.56.557 | 84.01.292 | Yes | 4.5 | 0.75 |
| Kamal kumar | Nagendar sanker | kudriganj | Sasaram | 8825164136 | 24.54.847 | 84.00.390 | Yes | 6 | 1 |
| GUDDU KUMAR | Jaiprakash singh | Sikariya | Sasaram | 884552112 | 24.54.850 | 84.00.393 | Yes | 4 | 0.4 |
| Uday Kumar Singh | Late Haridwar Singh | Sikariya | Sasaram | 9504361119 | 24.54.852 | 84.00.395 | Yes | 6 | 1 |
| Nand Kishor Singh | Jagmohan Singh | Sikariya | Sasaram | 9939795387 | 25.01.998 | 84.01.124 | Yes | 6 | 1 |
| Sudarshan singh | Haridwar singh | Sikariya | Sasaram | 9504361119 | 25.10.398 | 84.18.170 | Yes | 6 | 1 |
| Sunil Kumar Singh | Deoband singh | Panjav | Karahgar | 9931262439 | 25.10.340 | 84.18.173 | Yes | 4.5 | 0.75 |
| Madan Mohan Pandey | Chandradev pandey | Motha | Karakat | 9771505856 | 25.10.342 | 84.18.176 | Yes | 3 | 0.5 |
| Ram Niwas Pandey | Pati Ram pandey | Motha | Karakat | 7644087558 | 25.10.345 | 84.18.178 | Yes | 3 | 0.5 |
| Anil Kumar Pandey | Suresh pandey | Motha | Karakat | 9572510225 | 25.10.348 | 84.18.180 | Yes | 3 | 0.5 |
| Ravi Kumar | Visendra Singh | Motha | Karakat | 9471912794 | 25.10.345 | 84.18.178 | Yes | 3 | 0.5 |
| Bijendra Pandey | Baijnath pandey | Motha | Karakat | 8863815820 | 25.10.348 | 84.18.180 | Yes | 3 | 0.5 |
| Arun Kumar | Raghuvendra chandravansi | Pratapganj | Rajpur | 9852693651 | 25.04.630 | 84.11.790 | Yes | 3 | 0.5 |
| Sri kant Singh | Gejbali singh | Dihra | Dinara | 7079004777 | 25.12.587 | 84.02.410 | Yes | 6 | 1 |
| Pratima Devi | Srikant sngh | Dihra | Dinara | 7079005777 | 25.12.589 | 84.02.412 | Yes | 6 | 1 |
| Bajrangi Kumar | Ram jee sah | Babhni | Karahgar | 9931034921 | 25.03.224 | 84.14.730 | Yes | 4 | 0.4 |
| Sambhu Singh |  | Motha | Karakat | 9431486313 | 25.10.350 | 84.18.182 | Yes | 2 |  |
| Harendar singh | Ramashry Bind | Sikariya | Sasaram | 9060067771 | 24.54.846 | 84.01.390 | Yes |  | 0.75 |
| Hariom Kumar | Virendra Kumar Singh | Sikariya | Sasaram | 8969219443 | 25.55.102 | 84.02.001 | Yes |  | 0.75 |
| Ratan Singh | Rqam Vijay Singh | Sikariya | Sasaram | 9546144233 | 25.55.105 | 84.02.020 | Yes |  | 0.75 |
| Sarvesh Kumar | Ravindra Singh | Sikariya | Sasaram | 7762998994 | 25.55.108 | 84.02.023 | Yes |  | 0.75 |
| Sudrashan Singh | Haridwar Singh | Sikariya | Sasaram | 7739286888 | 25.55.109 | 84.02.025 | Yes |  | 1 |
| Janardan Singh | Shivnath Singh | Sikariya | Sasaram | 8986110578 | 25.55.111 | 84.02.030 | Yes |  | 1.25 |
| Mahendar Bind | Rambachan Bind | Sikariya | Sasaram | 9905933315 | 25.55.113 | 84.02.035 | Yes |  | 0.25 |
| Virendra singh | Rameswar Singh | Sikariya | Sasaram | 9162014301 | 25.55.115 | 84.02.040 | Yes |  | 0.5 |

**Crop-5 Linseed**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of farmer | Father’s name | Village | Block | Mobile No. | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Seed quantity used (kg.) | Area (ha) |
| Latitude | Longitude |
| Dr.Kuwar Birendra pratap Singh | Late Rajkishor Singh | Siyawak | Rajpur | 9415226425 | 84.11.742 | 25.05.831 | Yes | 1 | 2.5 |
| Sudhir Singh | Ramanand Singh | Siyawak | Rajpur | 9934016177 | 84.11.745 | 25.05.835 | Yes | 1 | 2.5 |
| Krishna Kumar Singh | Satnarayan Singh | Babu ke bahuwara | Kochas | 8709665610 | 83.50.955 | 25.17.347 | Yes | 0.5 | 12.5 |
| Jushar Kumar | Chandra mohan Pandey | Babu ke bahuwara | Kochas | 7903819963 | 83.50.959 | 25.17.376 | Yes | 0.5 | 12.5 |
| Sanjay Kumar | Jagdish Singh | Babu ke bahuwara | Kochas | 9631573863 | 83.50.962 | 25.17.378 | Yes | 0.5 | 12.5 |
| Bijendra Pandey |  | Shivan | Karahgar | 9771616540 | 83.53.427 | 25.09.607 | Yes | 0.25 | 6.25 |
| Manoj Kumar Ram | Bajrangi Ram | Sikariya | Sasaram | 9939795426 | 84.00.342 | 24.54.849 | Yes | 0.5 | 12.5 |
| Navrang Paswan | Sita Paswan | Malaw | Sikariya | 9431082327 | 83.59.422 | 24.53.828 | Yes | 0.5 | 12.5 |
| Harendra Singh | Ram ashish Singh | Sikariya | Sasaram | 9771636168 | 84.00.342 | 24.54.845 | Yes | 0.5 | 12.5 |
| Mira Devi | Uday Kumar singh | Sikariya | Sasaram | 9504361120 | 84.00.344 | 24.54.843 | Yes | 1 | 25 |
| Ajit Kumar Singh | Jagbali Singh | Dinara | Dinara | 9771898277 | 84.02.410 | 25.12.587 | Yes | 1 | 25 |
| Ramnivas Pandey | Late Pativam Pandey | Motha | karakat | 7644087558 | 84.183.118 | 25.10.278 | Yes | 0.25 | 6.25 |
| Madan mohan Pandey | Chandev Pandey | Motha | Karahgar | 9771505856 | 84.18.116 | 25.10.276 | Yes | 0.5 | 12.5 |
| Anil Kumar Pandey | Suresh Pandey | Motha | Karahgar | 9572510225 | 84.18.118 | 25.10.278 | Yes | 0.25 | 6.25 |
| Ram badan Singh | Jagdhar Singh | Motha | Karahgar | 9934685677 | 84.18.122 | 25.10.280 | Yes | 0.25 | 6.25 |
| Chitranjan Pandey | Sri Niwas Pandey | Motha | Karahgar | 9525675298 | 84.18.125 | 25.10.282 | Yes | 0.4 | 10 |
| Shiv ram Singh | Gyani Singh | Motha | Karahgar | 8083523316 | 84.18.128 | 25.10.285 | Yes | 0.4 | 10 |
| Shankar Kumar | Ashpujan Singh | Motha | Karahgar | 7033658963 | 84.17.156 | 25.10.389 | Yes | 0.4 | 10 |
| Bindeswari Prasad Singh | Awadh bihari Singh | Amethi | Sanjhauli | 9006933045 | 84.02.798 | 25.14.133 | Yes | 0.25 | 6.5 |
| Pratik Kumar | Lalan Singh | Dhawan | Bikramganj | 9931294887 | 84.12.503 | 25.05.443 | Yes | 0.25 | 6.5 |
| Vikash Kumar | Nand Kishor Rai | Karahansi | Dinara | 8292787727 | 84.07.075 | 25.09.285 | Yes | 0.25 | 6.5 |
| Nand Kishor Rai | Jaganath Rai | Karahansi | Dinara | 8292787727 | 84.07.080 | 25.09.289 | Yes | 0.5 | 12.5 |
| Dadan Singh | Ramsigasan Singh | Saraon tola | Dinara | 8292442748 | 84.08.616 | 25.12.180 | Yes | 0.25 | 6 |
| Janardan Kumar | Rupu Singh | Mishripur | Sasaram | 8862870248 | 84.02.873 | 24.07.860 | Yes | 0.4 | 10 |
| Akhilesh Tiwari |  | Rampurjai | Shivsagar | 9939485588 | 84.56.035 | 24.59.624 | Yes | 0.5 | 12.5 |
| Arbind Kumar Singh | Gharbharan Singh | Babhni | Karahgar | 9431427271 | 84.14.833 | 25.03.203 | Yes | 0.4 | 10 |
| Janeshwor pandey | Ambika Pandey | Nadauan | Dinara | 9546111580 | 84.06.668 | 25.13.678 | Yes | 0.25 | 6.5 |
| Sanjay Prasad Gupta | Raghunath Prasad | Bishanpura | Nokha | 7870933259 | 84.13.341 | 25.16.649 | Yes | 0.25 | 6.5 |
| Indrasan Singh | Gangadayal Singh | Akhora | Dinara | 9135854772 | 84.00.798 | 25.14.133 | Yes | 0.25 | 6.5 |
| Brajesh Kumar | Sudrashan Chaudhry | Dihra | Karakat | 7079610410 | 84.15.967 | 25.13.507 | Yes | 0.5 | 12.5 |
| Rupesh Kumar | Kedar Prasad | Kesodih | Bikramganj | 97087121 | 84.12.850 | 25.09.148 | Yes | 0.25 | 6 |
| Dadan Singh | Sigasan Singh | Shahari | karakat | 7260909897 | 84.16.489 | 25.09.321 | Yes | 0.25 | 6.5 |
| Virendra Kumar | Sreeram Chaudhry | Parariya | Bikramganj | 7079018900 | 84.15.125 | 25.13.650 | Yes | 1 | 25 |
| Nita Devi | Ritesh Chaudhry | Parariya | Bikramganj | 8757949586 | 84.15.128 | 25.13.665 | Yes | 0.5 | 12.5 |
| Rishabh Raj | Satnarayan Chaudhry | Laxmanpur | Bikramganj | 7547821920 | 84.13.726 | 25.10.514 | Yes | 0.75 | 20 |
| Ranjan Kumar | Ramjagan Paswan | Laxmanpur | Bikramganj | 9060715637 | 84.13.728 | 25.10.516 | Yes | 0.75 | 20 |
| Virendra Singh | Rameshwar Singh | Sikariya | Sasaram | 9162014301 | 84.00.344 | 24.54.843 | Yes | 0.75 | 20 |
| Sharvesh Kumar | Ravindar Singh | Sikariya | Sasaram | 7762998994 | 84.00.346 | 24.54.845 | Yes | 1 | 25 |
| Harendra Bind | Ramashry Bind | Sikariya | Sasaram | 9060067771 | 84.00.348 | 24.54.847 | Yes | 0.5 | 12.5 |
| Ratan Singh | Ranvijay Singh | Sikariya | Sasaram | 9546144233 | 84.00.350 | 24.54.850 | Yes | 0.75 | 20 |
| Manoj Kumar Ram | Bajrangi Ram | Sikariya | Sasaram | 9939795426 | 84.00.352 | 24.54.853 | Yes | 1 | 25 |
| Kamleshwar Yadav | Gurucharan yadav | Sikariya | Sasaram | 7782073015 | 84.00.355 | 24.54.856 | Yes | 0.5 | 12.5 |

* 1. **Achievements on Training (Including the sponsored and FLD training programmes):**

1. **Farmers and farm women (on campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | ST | | |
|  | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | 4 | 50 | 10 | 60 | 20 | 0 | 20 | 10 | 0 | 10 | 80 | 10 | 90 |
| Weed Management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Conservation Technologies | 3 | 40 | 0 | 40 | 20 | 0 | 20 | 5 | 0 | 5 | 65 | 0 | 65 |
| Cropping Systems | 1 | 20 | 5 | 25 | 5 | 0 | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Crop Diversification | 1 | 18 | 0 | 18 | 3 | 0 | 3 | 1 | 0 | 1 | 22 | 0 | 22 |
| Integrated Farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Water management | 4 | 40 | 10 | 50 | 25 | 5 | 30 | 10 | 0 | 10 | 75 | 15 | 90 |
| Seed production | 1 | 14 | 0 | 14 | 7 | 0 | 7 | 0 | 0 | 0 | 21 | 0 | 21 |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 1 | 30 | 0 | 30 | 5 | 0 | 5 | 0 | 0 | 0 | 35 | 0 | 35 |
| Fodder production | 1 | 20 | 0 | 20 | 5 | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, (cultivation of crops ) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **II. Horticulture** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management | 2 | 40 | 2 | 42 | 8 | 0 | 8 | 13 | 0 | 13 | 61 | 2 | 63 |
| Water management | 2 | 46 | 2 | 48 | 20 | 5 | 25 | 10 | 15 | 25 | 76 | 22 | 98 |
| Enterprise development | 2 | 33 | 5 | 38 | 8 | 5 | 13 | 0 | 0 | 0 | 54 | 10 | 64 |
| Skill development | 2 | 50 | 3 | 53 | 2 | 0 | 2 | 0 | 0 | 0 | 52 | 3 | 55 |
| Yield increment | 2 | 25 | 2 | 30 | 5 | 0 | 5 | 0 | 0 | 0 | 30 | 5 | 35 |
| Production of low volume and high value crops | 3 | 40 | 15 | 55 | 10 | 2 | 12 | 0 | 0 | 0 | 50 | 17 | 67 |
| Off-season vegetables | 3 | 40 | 11 | 51 | 20 | 5 | 25 | 10 | 0 | 10 | 70 | 16 | 86 |
| Nursery raising | 3 | 43 | 15 | 68 | 18 | 10 | 28 | 2 | 0 | 2 | 63 | 25 | 88 |
| Export potential vegetables |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) | 2 | 30 | 8 | 38 | 14 | 5 | 19 | 2 | 0 | 2 | 46 | 13 | 59 |
| Others, if any (Cultivation of Vegetable) | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Training and Pruning | 2 | 30 | 10 | 40 | 10 | 0 | 10 | 5 | 0 | 5 | 45 | 10 | 55 |
| **b) Fruits** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layout and Management of Orchards | 4 | 80 | 0 | 80 | 12 | 0 | 12 | 5 | 0 | 5 | 100 | 0 | 100 |
| Cultivation of Fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of young plants/orchards | 2 | 20 | 5 | 25 | 10 | 5 | 15 | 5 | 0 | 5 | 35 | 10 | 45 |
| Rejuvenation of old orchards | 1 | 10 | 4 | 14 | 5 | 0 | 5 | 4 | 0 | 4 | 19 | 4 | 23 |
| Export potential fruits |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards | 2 | 30 | 0 | 30 | 10 | 0 | 10 | 0 | 0 | 0 | 40 | 0 | 40 |
| Plant propagation techniques | 2 | 25 | 0 | 25 | 10 | 0 | 10 | 5 | 0 | 5 | 40 | 0 | 40 |
| Others, if any(INM) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery Management | 2 | 20 | 5 | 25 | 10 | 0 | 10 | 5 | 0 | 5 | 35 | 5 | 40 |
| Management of potted plants |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 25 | 0 | 25 | 3 | 0 | 3 | 0 | 0 | 0 | 28 | 0 | 28 |
| Processing and value addition | 2 | 44 | 5 | 49 | 10 | 0 | 10 | 0 | 0 | 0 | 54 | 5 | 59 |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 20 | 0 | 20 | 5 | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management | 1 | 10 | 0 | 10 | 2 | 0 | 2 | 0 | 0 | 0 | 12 | 0 | 12 |
| Production and management technology | 1 | 10 | 5 | 15 | 5 | 0 | 5 | 5 | 0 | 5 | 20 | 5 | 25 |
| Post harvest technology and value addition | 4 | 75 | 5 | 80 | 10 | 0 | 10 | 0 | 0 | 0 | 85 | 5 | 90 |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management | 1 | 10 | 3 | 13 | 6 | 0 | 6 | 5 | 0 | 5 | 21 | 3 | 24 |
| Soil and Water Conservation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated Nutrient Management | 2 | 20 | 2 | 22 | 5 | 2 | 7 | 0 | 0 | 0 | 25 | 4 | 29 |
| Production and use of organic inputs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Management of Problematic soils | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Micro nutrient deficiency in crops | 1 | 18 | 4 | 22 | 12 | 2 | 14 | 4 | 0 | 4 | 34 | 6 | 40 |
| Nutrient Use Efficiency | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil and Water Testing | 5 | 58 | 16 | 74 | 30 | 9 | 39 | 15 | 0 | 15 | 103 | 25 | 128 |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairy Management | 8 | 144 | 48 | 192 | 27 | 9 | 36 | 9 | 3 | 12 | 180 | 60 | 240 |
| Poultry Management | 5 | 96 | 24 | 120 | 18 | 5 | 23 | 6 | 2 | 8 | 120 | 31 | 151 |
| Piggery Management | 1 | 1 | 0 | 1 | 3 | 1 | 4 | 17 | 7 | 24 | 21 | 8 | 29 |
| Rabbit Management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Disease Management | 5 | 106 | 16 | 122 | 20 | 3 | 23 | 7 | 1 | 8 | 133 | 20 | 153 |
| Feed management | 2 | 32 | 16 | 48 | 6 | 3 | 9 | 2 | 1 | 3 | 40 | 20 | 60 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, if any Goat farming | 1 | 16 | 8 | 24 | 3 | 2 | 5 | 1 | 1 | 2 | 20 | 11 | 31 |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 2 | 40 | 10 | 50 | 10 | 5 | 15 | 0 | 0 | 0 | 50 | 15 | 65 |
| Design and development of low/minimum cost diet | 1 | 14 | 2 | 16 | 10 | 10 | 20 | 0 | 0 | 0 | 24 | 12 | 36 |
| Designing and development for high nutrient efficiency diet | 1 | 0 | 23 | 23 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 28 | 28 |
| Minimization of nutrient loss in processing | 1 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 30 | 30 |
| Gender mainstreaming through SHGs | 1 | 12 | 10 | 22 | 6 | 10 | 16 | 0 | 0 | 0 | 18 | 20 | 38 |
| Storage loss minimization techniques | 1 | 10 | 14 | 24 | 0 | 7 | 7 | 0 | 0 | 0 | 10 | 21 | 31 |
| Enterprise development | 1 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 6 | 6 | 0 | 36 | 36 |
| Value addition | 3 | 20 | 25 | 45 | 5 | 20 | 25 | 4 | 10 | 14 | 29 | 55 | 84 |
| Income generation activities for empowerment of rural Women | 3 | 20 | 30 | 50 | 5 | 20 | 25 | 0 | 10 | 10 | 25 | 60 | 85 |
| Location specific drudgery reduction technologies | 2 | 0 | 40 | 40 | 0 | 10 | 10 | 0 | 10 | 10 | 0 | 60 | 60 |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity building | 3 | 10 | 30 | 40 | 10 | 20 | 30 | 0 | 10 | 10 | 20 | 70 | 90 |
| Women and child care | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems | 8 | 68 | 3 | 71 | 32 | 2 | 34 | 24 | 28 | 52 | 124 | 33 | 157 |
| Use of Plastics in farming practices | 4 | 34 | 2 | 36 | 15 | 2 | 17 | 10 | 6 | 16 | 59 | 10 | 69 |
| Production of small tools and implements | 3 | 41 | 2 | 43 | 12 | 7 | 19 | 3 | 2 | 5 | 56 | 11 | 67 |
| Repair and maintenance of farm machinery and implements | 3 | 53 | 1 | 54 | 44 | 10 | 54 | 4 | 3 | 7 | 101 | 14 | 115 |
| Small scale processing and value addition | 7 | 85 | 5 | 90 | 48 | 18 | 66 | 26 | 8 | 34 | 159 | 31 | 190 |
| Post Harvest Technology | 5 | 53 | 3 | 56 | 22 | 12 | 34 | 15 | 8 | 23 | 90 | 23 | 113 |
| Others, if any | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **VII. Plant Protection** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |  |  |  |
| XI Agro-forestry |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  |  |  |  |  |  |  |  |  |

**B) Rural Youth (on campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | | ST | | |
|  | M | F | T | M | F | | T | M | F | T | M | F | T |
| Mushroom Production | 6 | 40 | 60 | 100 | 25 | | 50 | 75 | 10 | 15 | 25 | 75 | 125 | 200 |
| Bee-keeping | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated farming | 2 | 20 | 10 | 30 | 10 | | 3 | 13 | 3 | 0 | 3 | 33 | 13 | 46 |
| Seed production | 3 | 50 | 0 | 50 | 10 | | 0 | 10 | 0 | 0 | 0 | 60 | 0 | 60 |
| Production of organic inputs | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated Farming | 1 | 20 | 5 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Planting material production | 1 | 10 | 0 | 10 | 5 | | 0 | 5 | 5 | 0 | 5 | 20 | 0 | 20 |
| Vermi-culture | 2 | 30 | 5 | 35 | 10 | | 0 | 10 | 5 | 0 | 5 | 45 | 5 | 50 |
| Sericulture | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protected cultivation of vegetable crops | 1 | 20 | 0 | 20 | 8 | | 0 | 8 | 0 | 0 | 0 | 28 | 0 | 28 |
| Commercial fruit production | 1 | 20 | 0 | 20 | 10 | | 0 | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| Repair and maintenance of farm machinery and implements | 2 | 31 | 0 | 31 | 12 | | 0 | 12 | 3 | 0 | 3 | 46 | 0 | 46 |
| Nursery Management of Horticulture crops | 2 | 20 | 0 | 20 | 10 | | 0 | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| Training and pruning of orchards | 4 | 63 | 10 | 73 | 15 | | 5 | 20 | 7 | 5 | 12 | 85 | 20 | 105 |
| Value addition | 1 | 5 | 5 | 10 | 5 | | 5 | 10 | 5 | 0 | 5 | 15 | 10 | 25 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dairying | 3 | 123 | 21 | 144 | 23 | | 4 | 27 | 8 | 1 | 9 | 154 | 26 | 180 |
| Sheep and goat rearing | 2 | 34 | 14 | 48 | 6 | | 3 | 9 | 2 | 1 | 3 | 42 | 18 | 60 |
| Quail farming | 4 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Piggery | 1 | 1 | 0 | 1 | 4 | | 1 | 5 | 21 | 3 | 24 | 26 | 4 | 30 |
| Rabbit farming | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poultry production | 2 | 29 | 5 | 34 | 5 | | 1 | 6 | 2 | 0 | 2 | 36 | 6 | 42 |
| Ornamental fisheries | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterprise development | 12 | 81 | 0 | 81 | 22 | | 4 | 26 | 32 | 41 | 73 | 135 | 45 | 180 |
| Para vets | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Para extension workers | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Composite fish culture | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Freshwater prawn culture | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp farming | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pearl culture | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cold water fisheries | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fish harvest and processing technology | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fry and fingerling rearing | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small scale processing | 2 | 30 | 12 | 42 | 13 | | 10 | 23 | 0 | 0 | 0 | 43 | 22 | 65 |
| Post Harvest Technology | 3 | 39 | 0 | 39 | 22 | | 8 | 30 | 15 | 4 | 19 | 76 | 12 | 88 |
| Tailoring and Stitching | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rural Crafts | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL** | **55** | **666** | **147** | **813** | **220** | | **94** | **314** | **118** | **70** | **188** | **1004** | **311** | **1315** |

**C) Extension Personnel (on campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | | ST | | |
|  | M | F | T | M | F | | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 4 | 58 | 2 | 60 | 20 | | 0 | 20 | 0 | 0 | 0 | 65 | 23 | 88 |
| Value addition | 1 | 20 | 5 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Integrated Pest Management | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated Nutrient management | 1 | 20 | 5 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Rejuvenation of old orchards | 1 | 25 | 0 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 30 | 0 | 30 |
| Protected cultivation technology | 1 | 25 | 0 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 30 | 0 | 30 |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application | 1 | 20 | 0 | 20 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Management in farm animals | 1 | 94 | 5 | 99 | 18 | | 1 | 19 | 6 | 0 | 6 | 118 | 6 | 124 |
| Livestock feed and fodder production | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Household food security | 1 | 10 | 20 | 30 | 10 | | 10 | 20 | 0 | 10 | 10 | 20 | 40 | 60 |
| Women and Child care | 1 | 0 | 30 | 30 | 2 | | 20 | 22 | 0 | 0 | 0 | 2 | 50 | 52 |
| Low cost and nutrient efficient diet designing | 1 | 20 | 0 | 20 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Production and use of organic inputs | 1 | 12 | 0 | 12 | 10 | | 0 | 10 | 0 | 0 | 0 | 12 | 10 | 22 |
| Gender mainstreaming through SHGs | 1 | 28 | 0 | 28 | 2 | | 0 | 2 | 0 | 0 | 0 | 30 | 0 | 30 |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**D) Farmers and farm women (off campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | | ST | | |
|  | M | F | T | M | F | | T | M | F | T | M | F | T |
| **I. Crop Production** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Weed Management | 3 | 82 | 20 | 102 | 5 | 0 | | 5 | 0 | 0 | 0 | 87 | 20 | 107 |
| Resource Conservation Technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cropping Systems | 2 | 86 | 8 | 94 | 6 | 0 | | 6 | 2 | 0 | 2 | 94 | 8 | 102 |
| Crop Diversification | 1 | 20 | 0 | 20 | 10 | 0 | | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| Integrated Farming | 2 | 87 | 0 | 87 | 5 | 0 | | 5 | 2 | 0 | 2 | 94 | 0 | 94 |
| Water management | 2 | 76 | 0 | 76 | 6 | 0 | | 6 | 3 | 0 | 3 | 85 | 0 | 85 |
| Seed production | 8 | 120 | 20 | 140 | 30 | 10 | | 40 | 20 | 5 | 25 | 170 | 35 | 205 |
| Nursery management | 2 | 71 | 0 | 71 | 8 | 0 | | 8 | 5 | 0 | 5 | 84 | 0 | 84 |
| Integrated Crop Management | 1 | 20 | 0 | 20 | 5 | 0 | | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fodder production | 1 | 25 | 0 | 25 | 5 | 0 | | 5 | 0 | 0 | 0 | 30 | 0 | 30 |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, (cultivation of crops ) | 1 | 20 | 0 | 20 | 10 | 0 | | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient management | 3 | 55 | 2 | 57 | 8 | 0 | | 8 | 23 | 6 | 29 | 85 | 8 | 93 |
| Water management | 6 | 80 | 2 | 82 | 38 | 4 | | 42 | 14 | 1 | 15 | 107 | 20 | 127 |
| Enterprise development | 2 | 20 | 5 | 25 | 9 | 5 | | 14 | 5 | 0 | 5 | 21 | 10 | 31 |
| Skill development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Yield increment | 2 | 25 | 5 | 30 | 5 | 0 | | 5 | 0 | 0 | 0 | 30 | 5 | 35 |
| Production of low volume and high value crops | 3 | 40 | 15 | 55 | 22 | 3 | | 25 | 0 | 0 | 0 | 46 | 38 | 84 |
| Off-season vegetables | 4 | 66 | 12 | 78 | 12 | 6 | | 18 | 5 | 0 | 5 | 83 | 18 | 101 |
| Nursery raising | 4 | 50 | 17 | 67 | 20 | 7 | | 27 | 3 | 5 | 8 | 73 | 29 | 102 |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) | 3 | 35 | 8 | 43 | 20 | 6 | | 26 | 2 | 0 | 2 | 57 | 14 | 71 |
| Others, if any (Cultivation of Vegetable) | 5 | 82 | 9 | 91 | 19 | 2 | | 21 | 5 | 0 | 5 | 101 | 11 | 112 |
| Training and Pruning |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cultivation of Fruit | 4 | 75 | 10 | 85 | 20 | 0 | | 20 | 10 | 0 | 10 | 105 | 10 | 115 |
| Management of young plants/orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards | 1 | 12 | 4 | 16 | 5 | 5 | | 10 | 4 | 2 | 6 | 21 | 6 | 32 |
| Export potential fruits |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards | 3 | 50 | 0 | 50 | 10 | 0 | | 10 | 0 | 0 | 0 | 60 | 0 | 60 |
| Plant propagation techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any(INM) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management | 3 | 30 | 5 | 35 | 10 | 5 | | 15 | 5 | 0 | 5 | 45 | 10 | 55 |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 20 | 4 | 24 | 3 | 0 | | 3 | 0 | 0 | 0 | 23 | 4 | 27 |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology | 1 | 20 | 0 | 20 | 0 | 0 | | 0 | 0 | 0 | 0 | 20 | 0 | 20 |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management | 1 | 15 | 6 | 21 | 10 | 6 | | 16 | 2 | 0 | 2 | 27 | 12 | 39 |
| Production and management technology | 1 | 20 | 5 | 25 | 5 | 0 | | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management | 2 | 27 | 10 | 37 | 10 | 9 | | 19 | 5 | 0 | 5 | 42 | 19 | 61 |
| Soil and Water Conservation | 6 | 70 | 18 | 88 | 17 | 13 | | 30 | 12 | 0 | 12 | 109 | 31 | 140 |
| Integrated Nutrient Management | 1 | 12 | 10 | 22 | 5 | 2 | | 7 | 4 | 0 | 4 | 21 | 12 | 33 |
| Production and use of organic inputs | 1 | 20 | 5 | 25 | 0 | 0 | | 0 | 0 | 0 | 0 | 20 | 5 | 25 |
| Management of Problematic soils |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops | 1 | 18 | 4 | 22 | 12 | 2 | | 14 | 4 | 0 | 4 | 34 | 6 | 40 |
| Nutrient Use Efficiency | 1 | 25 | 0 | 25 | 0 | 0 | | 0 | 0 | 0 | 0 | 25 | 0 | 25 |
| Soil and Water Testing | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, if any | 1 | 20 | 5 | 25 | 5 | 0 | | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management | 10 | 348 | 60 | 408 | 65 | 11 | | 76 | 22 | 4 | 26 | 435 | 75 | 510 |
| Poultry Management | 3 | 33 | 14 | 47 | 6 | 3 | | 9 | 2 | 1 | 3 | 41 | 18 | 59 |
| Piggery Management | 1 | 1 | 0 | 1 | 3 | 0 | | 3 | 18 | 0 | 18 | 22 | 0 | 22 |
| Rabbit Management | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Disease Management | 6 | 103 | 14 | 117 | 19 | 3 | | 22 | 6 | 1 | 7 | 128 | 18 | 146 |
| Feed management | 3 | 34 | 0 | 34 | 6 | 0 | | 6 | 2 | 0 | 2 | 42 | 0 | 42 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, if any Goat farming | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 2 | 20 | 30 | 50 | 5 | 10 | | 15 | 0 | 5 | 5 | 25 | 45 | 70 |
| Design and development of low/minimum cost diet | 1 | 0 | 30 | 30 | 0 | 15 | | 15 | 0 | 0 | 0 | 0 | 45 | 45 |
| Designing and development for high nutrient efficiency diet | 1 | 0 | 28 | 28 | 0 | 7 | | 7 | 0 | 0 | 0 | 0 | 35 | 35 |
| Minimization of nutrient loss in processing | 1 | 5 | 20 | 25 | 5 | 15 | | 20 | 0 | 0 | 0 | 10 | 35 | 45 |
| Gender mainstreaming through SHGs | 1 | 20 | 10 | 30 | 10 | 5 | | 15 | 0 | 0 | 0 | 30 | 15 | 45 |
| Storage loss minimization techniques | 1 | 0 | 30 | 30 | 0 | 10 | | 10 | 0 | 0 | 0 | 0 | 40 | 40 |
| Enterprise development | 2 | 20 | 25 | 45 | 10 | 18 | | 28 | 0 | 8 | 8 | 30 | 43 | 73 |
| Value addition | 3 | 15 | 25 | 40 | 5 | 15 | | 20 | 0 | 10 | 10 | 20 | 50 | 70 |
| Income generation activities for empowerment of rural Women | 4 | 25 | 32 | 57 | 16 | 14 | | 30 | 8 | 12 | 20 | 49 | 58 | 107 |
| Location specific drudgery reduction technologies | 1 | 0 | 40 | 40 | 0 | 10 | | 10 | 0 | 0 | 0 | 0 | 50 | 50 |
| Rural Crafts | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity building | 2 | 10 | 20 | 30 | 8 | 12 | | 20 | 0 | 10 | 10 | 18 | 42 | 60 |
| Women and child care | 1 | 0 | 50 | 50 | 0 | 10 | | 10 | 0 | 0 | 0 | 0 | 60 | 60 |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems | 5 | 42 | 2 | 44 | 32 | 14 | | 46 | 25 | 6 | 31 | 99 | 22 | 121 |
| Use of Plastics in farming practices | 5 | 124 | 2 | 126 | 26 | 21 | | 47 | 0 | 0 | 0 | 150 | 23 | 173 |
| Production of small tools and implements | 6 | 56 | 12 | 68 | 45 | 15 | | 60 | 19 | 9 | 28 | 120 | 36 | 156 |
| Repair and maintenance of farm machinery and implements | 11 | 173 | 15 | 188 | 48 | 95 | | 143 | 42 | 26 | 68 | 263 | 136 | 399 |
| Small scale processing and value addition | 5 | 41 | 3 | 44 | 34 | 15 | | 49 | 22 | 6 | 28 | 97 | 24 | 121 |
| Post Harvest Technology | 6 | 54 | 5 | 59 | 41 | 12 | | 53 | 21 | 11 | 32 | 116 | 28 | 144 |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| XI Agro-forestry |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**E) RURAL YOUTH (Off Campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | | ST | | |
|  | M | F | T | M | F | | T | M | F | T | M | F | T |
| Mushroom Production | 8 | 80 | 35 | 115 | 42 | | 22 | 64 | 38 | 22 | 60 | 160 | 79 | 239 |
| Bee-keeping | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated farming | 3 | 39 | 10 | 49 | 12 | | 3 | 15 | 3 | 0 | 3 | 54 | 13 | 67 |
| Seed production | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Production of organic inputs | 1 | 15 | 10 | 25 | 10 | | 5 | 15 | 0 | 0 | 0 | 25 | 15 | 40 |
| Integrated Farming | 2 | 30 | 5 | 35 | 5 | | 0 | 5 | 0 | 0 | 0 | 35 | 5 | 40 |
| Planting material production | 1 | 20 | 5 | 25 | 5 | | 0 | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| Vermi-culture | 2 | 30 | 5 | 35 | 5 | | 0 | 5 | 0 | 0 | 0 | 35 | 5 | 40 |
| Sericulture | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protected cultivation of vegetable crops | 3 | 24 | 4 | 28 | 10 | | 8 | 18 | 18 | 0 | 18 | 52 | 12 | 64 |
| Commercial fruit production | 1 | 20 | 0 | 20 | 10 | | 0 | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| Repair and maintenance of farm machinery and implements | 5 | 40 | 7 | 47 | 18 | | 9 | 27 | 33 | 12 | 45 | 92 | 27 | 119 |
| Nursery Management of Horticulture crops | 2 | 20 | 5 | 25 | 16 | | 0 | 16 | 9 | 0 | 9 | 45 | 5 | 50 |
| Training and pruning of orchards | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Value addition | 2 | 25 | 5 | 30 | 5 | | 0 | 5 | 0 | 0 | 0 | 30 | 5 | 35 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dairying | 3 | 11 | 46 | 57 | 2 | | 9 | 11 | 1 | 3 | 4 | 14 | 58 | 72 |
| Sheep and goat rearing | 2 | 6 | 30 | 36 | 1 | | 6 | 7 | 0 | 2 | 2 | 7 | 38 | 45 |
| Quail farming | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Piggery | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rabbit farming | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poultry production | 4 | 14 | 43 | 57 | 3 | | 8 | 11 | 1 | 3 | 4 | 18 | 54 | 72 |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para vets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para extension workers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing | 2 | 22 | 3 | 25 | 7 | | 5 | 12 | 13 | 6 | 19 | 42 | 14 | 56 |
| Post Harvest Technology | 3 | 17 | 38 | 55 | 8 | | 23 | 31 | 7 | 16 | 23 | 32 | 77 | 109 |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**F) Extension Personnel (Off Campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | ST | | |
|  | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 2 | 30 | 10 | 40 | 10 | 5 | 15 | 5 | 0 | 5 | 45 | 15 | 60 |
| Integrated Pest Management | 1 | 20 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 20 |
| Integrated Nutrient management | 1 | 20 | 0 | 20 | 5 | 0 | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Rejuvenation of old orchards | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 |
| Protected cultivation technology | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements | 10 | 114 | 0 | 114 | 47 | 0 | 47 | 0 | 0 | 0 | 161 | 0 | 161 |
| WTO and IPR issues | 1 | 30 | 0 | 30 | 10 | 0 | 10 | 0 | 0 | 0 | 40 | 0 | 40 |
| Management in farm animals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Livestock feed and fodder production | 1 | 19 | 3 | 22 | 4 | 1 | 5 | 1 | 0 | 1 | 24 | 5 | 29 |
| Household food security | 2 | 14 | 26 | 40 | 7 | 13 | 20 | 8 | 12 | 20 | 29 | 51 | 80 |
| Women and Child care | 1 | 0 | 25 | 25 | 0 | 10 | 10 | 0 | 5 | 5 | 0 | 40 | 40 |
| Low cost and nutrient efficient diet designing | 1 | 10 | 28 | 38 | 6 | 12 | 18 | 5 | 8 | 13 | 21 | 48 | 69 |
| Production and use of organic inputs | 1 | 30 | 0 | 30 | 5 | 0 | 5 | 0 | 0 | 0 | 35 | 0 | 35 |
| Gender mainstreaming through SHGs | 1 | 0 | 25 | 25 | 0 | 15 | 15 | 0 | 0 | 0 | 0 | 40 | 40 |
| Crop intensification |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |

**G) Consolidated table (ON and OFF Campus)**

**i. Farmers& Farm Women**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | | ST | | |
|  | M | F | T | M | F | | T | M | F | T | M | F | T |
| **I. Crop Production** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Weed Management | 7 | 132 | 30 | 162 | 25 | 0 | | 25 | 10 | 0 | 10 | 167 | 30 | 197 |
| Resource Conservation Technologies | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cropping Systems | 5 | 126 | 8 | 134 | 26 | 0 | | 26 | 7 | 0 | 7 | 159 | 8 | 167 |
| Crop Diversification | 2 | 40 | 5 | 45 | 15 | 0 | | 15 | 0 | 0 | 0 | 60 | 0 | 60 |
| Integrated Farming | 3 | 105 | 0 | 105 | 8 | 0 | | 8 | 3 | 0 | 3 | 116 | 0 | 116 |
| Water management | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seed production | 12 | 160 | 30 | 190 | 55 | 15 | | 70 | 30 | 5 | 35 | 245 | 50 | 295 |
| Nursery management | 3 | 85 | 0 | 85 | 15 | 0 | | 15 | 5 | 0 | 5 | 105 | 0 | 105 |
| Integrated Crop Management | 1 | 20 | 0 | 20 | 5 | 0 | | 5 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fodder production | 2 | 53 | 0 | 53 | 10 | 0 | | 10 | 0 | 0 | 0 | 65 | 0 | 65 |
| Production of organic inputs | 2 | 40 | 0 | 40 | 15 | 0 | | 15 | 0 | 0 | 0 | 55 | 0 | 55 |
| Others, (cultivation of crops ) | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **37** | **761** | **73** | **834** | **174** | **15** | | **189** | **55** | **5** | **60** | **997** | **88** | **1085** |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient management | 5 | 95 | 4 | 99 | 16 | 0 | | 16 | 33 | 6 | 41 | 146 | 10 | 156 |
| Water management | 8 | 126 | 4 | 130 | 58 | 9 | | 67 | 24 | 16 | 40 | 183 | 42 | 225 |
| Enterprise development | 4 | 53 | 10 | 63 | 17 | 10 | | 27 | 5 | 0 | 5 | 75 | 20 | 95 |
| Skill development | 2 | 50 | 7 | 57 | 3 | 0 | | 3 | 0 | 0 | 0 | 53 | 7 | 60 |
| Yield increment | 4 | 50 | 10 | 60 | 10 | 0 | | 10 | 0 | 0 | 0 | 60 | 10 | 70 |
| Production of low volume and high value crops | 6 | 80 | 30 | 110 | 32 | 5 | | 37 | 0 | 0 | 0 | 112 | 35 | 147 |
| Off-season vegetables | 7 | 106 | 23 | 129 | 32 | 11 | | 43 | 15 | 0 | 15 | 153 | 34 | 187 |
| Nursery raising | 7 | 93 | 32 | 125 | 38 | 17 | | 55 | 5 | 5 | 10 | 136 | 54 | 190 |
| Exotic vegetables like Broccoli | 1 | 30 | 0 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Export potential vegetables | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grading and standardization | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protective cultivation (Green Houses, Shade Net etc.) | 5 | 65 | 16 | 81 | 34 | 11 | | 45 | 4 | 0 | 4 | 103 | 27 | 130 |
| Others, if any (Cultivation of Vegetable) | 5 | 82 | 9 | 91 | 19 | 2 | | 21 | 5 | 0 | 5 | 101 | 11 | 112 |
| TOTAL | **54** | **830** | **145** | **975** | **259** | **65** | | **324** | **91** | **27** | **120** | **1152** | **250** | **1402** |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Training and Pruning | 2 | 30 | 10 | 40 | 10 | 0 | | 10 | 5 | 0 | 5 | 45 | 10 | 55 |
| Layout and Management of Orchards | 4 | 80 | 0 | 80 | 12 | 0 | | 12 | 5 | 0 | 5 | 100 | 0 | 100 |
| Cultivation of Fruit | 4 | 75 | 10 | 85 | 20 | 0 | | 20 | 10 | 0 | 10 | 105 | 10 | 115 |
| Management of young plants/orchards | 2 | 20 | 5 | 25 | 10 | 5 | | 15 | 5 | 0 | 5 | 35 | 10 | 45 |
| Rejuvenation of old orchards | 2 | 22 | 8 | 30 | 10 | 5 | | 15 | 8 | 2 | 10 | 40 | 15 | 55 |
| Export potential fruits | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Micro irrigation systems of orchards | 5 | 80 | 0 | 80 | 20 | 0 | | 20 | 0 | 0 | 0 | 100 | 0 | 100 |
| Plant propagation techniques | 2 | 25 | 0 | 25 | 10 | 0 | | 10 | 5 | 0 | 5 | 40 | 0 | 40 |
| Others, if any(INM) | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **21** | **332** | **33** | **365** | **92** | **10** | | **102** | **38** | **2** | **40** | **465** | **45** | **510** |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management | 5 | 50 | 10 | 65 | 20 | 5 | | 25 | 10 | 0 | 10 | 80 | 15 | 95 |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL | **5** | **50** | **10** | **65** | **20** | **5** | | **25** | **10** | **0** | **10** | **80** | **15** | **95** |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology | 2 | 45 | 4 | 49 | 6 | 0 | | 6 | 0 | 0 | 0 | 51 | 4 | 55 |
| Processing and value addition | 2 | 44 | 5 | 49 | 10 | 0 | | 10 | 0 | 0 | 0 | 54 | 5 | 59 |
| Others, if any | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **4** | **89** | **9** | **98** | **16** | **0** | | **16** | **0** | **0** | **0** | **105** | **9** | **114** |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology | 2 | 40 | 0 | 40 | 5 | 0 | | 5 | 0 | 0 | 0 | 45 | 0 | 45 |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL | **2** | **40** | **0** | **40** | **5** | **0** | | **5** | **0** | **0** | **0** | **45** | **0** | **45** |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management | 2 | 25 | 6 | 31 | 12 | 6 | | 18 | 2 | 0 | 2 | 39 | 12 | 51 |
| Production and management technology | 2 | 30 | 10 | 40 | 10 | 0 | | 10 | 5 | 0 | 5 | 45 | 10 | 55 |
| Post harvest technology and value addition | 4 | 75 | 5 | 80 | 10 | 0 | | 10 | 0 | 0 | 0 | 85 | 5 | 90 |
| Others, if any | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **8** | **130** | **21** | **151** | **32** | **6** | | **38** | **7** | **0** | **7** | **169** | **27** | **196** |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management | 3 | 37 | 13 | 50 | 16 | 9 | | 25 | 10 | 0 | 10 | 63 | 22 | 85 |
| Soil and Water Conservation | 6 | 70 | 18 | 88 | 17 | 13 | | 30 | 12 | 0 | 12 | 109 | 31 | 140 |
| Integrated Nutrient Management | 3 | 32 | 12 | 44 | 10 | 4 | | 14 | 4 | 0 | 4 | 46 | 16 | 62 |
| Production and use of organic inputs | 1 | 20 | 5 | 25 | 0 | 0 | | 0 | 0 | 0 | 0 | 20 | 5 | 25 |
| Management of Problematic soils | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Micro nutrient deficiency in crops | 1 | 18 | 4 | 22 | 12 | 2 | | 14 | 4 | 0 | 4 | 34 | 6 | 40 |
| Nutrient Use Efficiency | 1 | 25 | 0 | 25 | 0 | 0 | | 0 | 0 | 0 | 0 | 25 | 0 | 25 |
| Soil and Water Testing | 5 | 58 | 16 | 74 | 30 | 9 | | 39 | 15 | 0 | 15 | 103 | 25 | 128 |
| Others, if any | 1 | 20 | 5 | 25 | 5 | 0 | | 5 | 0 | 0 | 0 | 25 | 5 | 30 |
| TOTAL | **21** | **280** | **73** | **353** | **90** | **37** | | **127** | **45** | **0** | **45** | **425** | **110** | **535** |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management | 18 | 492 | 108 | 600 | 92 | 20 | | 112 | 31 | 7 | 38 | 615 | 135 | 750 |
| Poultry Management | 8 | 129 | 38 | 167 | 24 | 7 | | 31 | 8 | 2 | 10 | 161 | 47 | 208 |
| Piggery Management | 2 | 2 | 0 | 2 | 6 | 1 | | 7 | 34 | 7 | 41 | 42 | 8 | 50 |
| Rabbit Management | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Disease Management | 11 | 209 | 30 | 239 | 39 | 6 | | 45 | 13 | 2 | 15 | 261 | 38 | 299 |
| Feed management | 5 | 66 | 16 | 82 | 12 | 3 | | 15 | 4 | 1 | 5 | 82 | 20 | 102 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, if any (Goat farming) | 1 | 16 | 8 | 24 | 3 | 2 | | 5 | 1 | 1 | 2 | 20 | 11 | 31 |
| TOTAL | **45** | **914** | **200** | **1114** | **176** | **39** | | **215** | **91** | **20** | **111** | **1181** | **259** | **1440** |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 4 | 60 | 40 | 100 | 15 | 15 | | 30 | 0 | 5 | 5 | 75 | 60 | 135 |
| Design and development of low/minimum cost diet | 2 | 14 | 32 | 46 | 10 | 25 | | 35 | 0 | 0 | 0 | 24 | 57 | 81 |
| Designing and development for high nutrient efficiency diet | 1 | 0 | 51 | 51 | 0 | 12 | | 12 | 0 | 0 | 0 | 0 | 63 | 63 |
| Minimization of nutrient loss in processing | 2 | 5 | 40 | 45 | 4 | 25 | | 30 | 0 | 0 | 0 | 10 | 65 | 75 |
| Gender mainstreaming through SHGs | 1 | 32 | 20 | 52 | 16 | 15 | | 31 | 0 | 0 | 0 | 48 | 35 | 83 |
| Storage loss minimization techniques | 2 | 10 | 44 | 54 | 0 | 17 | | 17 | 0 | 0 | 0 | 10 | 61 | 71 |
| Enterprise development | 3 | 20 | 45 | 65 | 10 | 28 | | 38 | 0 | 14 | 14 | 59 | 98 | 157 |
| Value addition | 3 | 15 | 25 | 40 | 5 | 15 | | 20 | 0 | 10 | 10 | 20 | 50 | 70 |
| Income generation activities for empowerment of rural Women | 7 | 45 | 62 | 107 | 21 | 34 | | 55 | 18 | 22 | 40 | 74 | 118 | 192 |
| Location specific drudgery reduction technologies | 3 | 0 | 80 | 80 | 0 | 20 | | 20 | 0 | 10 | 10 | 0 | 110 | 110 |
| Rural Crafts | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity building | 5 | 20 | 50 | 70 | 18 | 32 | | 50 | 0 | 20 | 20 | 38 | 112 | 150 |
| Women and child care | 1 | 0 | 50 | 50 | 0 | 10 | | 10 | 0 | 0 | 0 | 0 | 60 | 60 |
| Others, if any | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **34** | **221** | **539** | **760** | **99** | **248** | | **348** | **18** | **81** | **99** | **358** | **889** | **1247** |
| **VI.Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems | 13 | 110 | 5 | 115 | 64 | 16 | | 80 | 49 | 34 | 83 | 223 | 55 | 278 |
| Use of Plastics in farming practices | 9 | 158 | 4 | 162 | 41 | 23 | | 64 | 10 | 6 | 16 | 209 | 33 | 242 |
| Production of small tools and implements | 9 | 97 | 14 | 111 | 57 | 22 | | 79 | 22 | 11 | 33 | 176 | 47 | 223 |
| Repair and maintenance of farm machinery and implements | 14 | 226 | 16 | 242 | 92 | 105 | | 197 | 46 | 29 | 75 | 364 | 150 | 514 |
| Small scale processing and value addition | 12 | 126 | 8 | 134 | 82 | 33 | | 115 | 48 | 14 | 62 | 256 | 55 | 311 |
| Post Harvest Technology | 11 | 107 | 8 | 115 | 63 | 24 | | 87 | 36 | 19 | 55 | 206 | 51 | 257 |
| Others, if any | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | **68** | **824** | **55** | **879** | **399** | **223** | | **622** | **211** | **113** | **324** | **1434** | **391** | **1825** |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XI Agro-forestry** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **TOTAL** |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**ii. RURAL YOUTH (On and Off Campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Other | | | SC | | | ST | | |
|  | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 14 | 120 | 95 | 215 | 67 | 72 | 139 | 48 | 37 | 85 | 235 | 204 | 439 |
| Bee-keeping | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Integrated farming | 5 | 59 | 20 | 79 | 22 | 6 | 28 | 6 | 0 | 6 | 87 | 26 | 113 |
| Seed production | 3 | 50 | 0 | 50 | 10 | 0 | 10 | 0 | 0 | 0 | 60 | 0 | 60 |
| Production of organic inputs | 1 | 15 | 10 | 25 | 10 | 5 | 15 | 0 | 0 | 0 | 25 | 15 | 40 |
| Planting material production | 2 | 30 | 5 | 35 | 10 | 0 | 10 | 5 | 0 | 5 | 45 | 5 | 50 |
| Vermi-culture | 4 | 60 | 10 | 70 | 15 | 0 | 15 | 5 | 0 | 5 | 80 | 10 | 90 |
| Sericulture | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protected cultivation of vegetable crops | 4 | 44 | 4 | 48 | 18 | 8 | 26 | 18 | 0 | 18 | 80 | 12 | 92 |
| Commercial fruit production | 1 | 20 | 0 | 20 | 10 | 0 | 10 | 0 | 0 | 0 | 30 | 0 | 30 |
| Repair and maintenance of farm machinery and implements | 7 | 71 | 7 | 78 | 30 | 9 | 39 | 36 | 12 | 45 | 138 | 27 | 165 |
| Nursery Management of Horticulture crops | 4 | 40 | 5 | 45 | 26 | 0 | 26 | 9 | 0 | 9 | 75 | 5 | 80 |
| Training and pruning of orchards | 4 | 63 | 10 | 73 | 15 | 5 | 20 | 7 | 5 | 12 | 85 | 20 | 105 |
| Value addition | 3 | 30 | 10 | 40 | 10 | 5 | 15 | 5 | 0 | 5 | 45 | 15 | 60 |
| Production of quality animal products | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dairying | 6 | 134 | 67 | 201 | 25 | 13 | 38 | 8 | 4 | 12 | 167 | 84 | 251 |
| Sheep and goat rearing | 4 | 40 | 45 | 85 | 8 | 8 | 16 | 3 | 3 | 6 | 51 | 56 | 107 |
| Quail farming | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Piggery | 1 | 1 | 0 | 1 | 4 | 1 | 5 | 21 | 3 | 24 | 26 | 4 | 30 |
| Rabbit farming | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poultry production | 6 | 43 | 48 | 91 | 8 | 9 | 17 | 3 | 3 | 6 | 54 | 60 | 114 |
| Ornamental fisheries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Para vets |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Para extension workers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small scale processing | 10 | 114 | 0 | 114 | 78 | 26 | 104 | 47 | 12 | 59 | 239 | 38 | 277 |
| Post Harvest Technology | 7 | 95 | 4 | 99 | 64 | 18 | 82 | 33 | 12 | 45 | 192 | 134 | 226 |
| Tailoring and Stitching |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others if any (ICT application in agriculture) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL | **90** | **1029** | **340** | **1369** | **430** | **185** | **615** | **254** | **91** | **342** | **1714** | **715** | **2329** |

**iii. Extension Personnel (On and Off Campus)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | | |
| Other | | | SC | | | ST | | |
|  | M | F | T | M | F | T | M | F | T | M | F | | T |
| Productivity enhancement in field crops | 6 | 88 | 12 | 100 | 30 | 5 | 35 | 5 | 0 | 5 | 123 | | 17 | 140 |
| Integrated Pest Management | 2 | 40 | 5 | 45 | 5 | 0 | 5 | 0 | 0 | 0 | 45 | | 5 | 50 |
| Integrated Nutrient management | 2 | 40 | 5 | 45 | 10 | 0 | 10 | 0 | 0 | 0 | 50 | | 5 | 55 |
| Rejuvenation of old orchards | 2 | 50 | 0 | 50 | 5 | 0 | 5 | 0 | 0 | 0 | 55 | | 0 | 55 |
| Value addition | 1 | 20 | 5 | 25 | 5 | 0 | 5 | 0 | 0 | 0 | 25 | | 5 | 30 |
| Protected cultivation technology | 2 | 55 | 0 | 55 | 5 | 0 | 5 | 0 | 0 | 0 | 60 | | 0 | 60 |
| Formation and Management of SHGs | 4 | 58 | 2 | 60 | 20 | 0 | 20 | 0 | 0 | 0 | 65 | | 23 | 88 |
| Group Dynamics and farmers organization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| Information networking among farmers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| Capacity building for ICT application | 1 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | | 0 | 30 |
| Care and maintenance of farm machinery and implements | 5 | 40 | 7 | 47 | 101 | 9 | 27 | 33 | 12 | 45 | 92 | | 27 | 119 |
| WTO and IPR issues | 1 | 30 | 0 | 30 | 10 | 0 | 10 | 0 | 0 | 0 | 40 | | 0 | 40 |
| Management in farm animals | 1 | 94 | 5 | 99 | 18 | 1 | 19 | 6 | 0 | 6 | 118 | | 6 | 124 |
| Livestock feed and fodder production | 1 | 19 | 3 | 22 | 4 | 1 | 5 | 1 | 0 | 1 | 24 | | 5 | 29 |
| Household food security | 3 | 24 | 46 | 70 | 17 | 23 | 40 | 8 | 22 | 30 | 49 | | 91 | 140 |
| Women and Child care | 2 | 0 | 55 | 55 | 2 | 30 | 32 | 0 | 5 | 5 | 2 | | 90 | 92 |
| Low cost and nutrient efficient diet designing | 2 | 30 | 28 | 58 | 11 | 12 | 23 | 5 | 8 | 13 | 46 | | 48 | 94 |
| Production and use of organic inputs | 1 | 30 | 0 | 30 | 5 | 0 | 5 | 0 | 0 | 0 | 35 | | 0 | 35 |
| Gender mainstreaming through SHGs | 2 | 28 | 25 | 53 | 10 | 15 | 25 | 0 | 0 | 0 | 38 | | 40 | 78 |
| Crop intensification | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| Others if any | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| **TOTAL** | **38** | **676** | **198** | **874** | **258** | **96** | **271** | **58** | **47** | **105** | **897** | | **362** | **1259** |

## Please furnish the details of training programmes as Annexure in the proforma given below

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | Clientele | | Title of the training programme | Duration in days | Venue (Off / On Campus) | Number of participants | | | Number of SC/ST | | |
| Male | Female | Total | Male | Female | Total |
|  |  |  | |  |  |  |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |  |

## H) Vocational training programmes for Rural Youth

## Details of training programmes for Rural Youth

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop / Enterprise | Identified Thrust Area | Training title\* | Duration (days) | No. of Participants | | | Self employed after training | | | Number of persons employed else where |
| M | F | Total | Type of units | Number  of units | Number of persons employed |
| Guava | Training & Pruning | Training & Pruning of Guava orchard | 05 | 25 | 5 | 30 | Gardening | 29 | 05 | Self employed |
| Mushroom Production | Income generation | Production of oyster & button mushroom | 07 | 23 | 7 | 30 | Mushroom | 29 | 16 | Self employed |
| Gardening | Orchard management | Orchard management of mango & guava | 38 | 27 | 3 | 30 | Gardener | 29 | 05 | Self employed |
| Medicinal Plants Grower | Management of Medicinal garden | Uses of different medicinal plants & its management. | 30 | 26 | 4 | 30 | Med. Plants Grower | 29 | - | Result awaited |
| Mushroom Spawn production | Income generation | Preparation & production of mushroom spawn | 07 | 23 | 7 | 30 | Spawn production | 30 | 02 | Self employed |
| Processing & Preservation of mushroom | Value addition | Processing & preservation of mushroom | 05 | 27 | 3 | 30 | Preservation of mushroom | 30 | 05 | Self employed |
| Seed production | Income generation | Seed production of paddy | 07 | 27 | 3 | 30 | Seed production | 40 | 08 | Self employed |
| Seed production | Income generation | Seed production of pulses | 05 | 28 | 2 | 30 | Seed production | 32 | 10 | Self employed |

\*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.No | Title | Thematic area | Month | Duration (days) | Client | No. of courses | No. of Participants | | | | | | | | | | Sponsoring Agency |
|  |  | PF/ RY/ EF | Male | | | Female | | | Total | | | |
|  | Others | SC | ST | Others | SC | ST | Others | SC | ST | Total |  |
| 1. | Prospects of Bee keeping in Rohtas district | Income generation | March, 18 | 07 | RY | 01 | 24 | 4 | 2 | 4 | 0 | 0 | 24 | 4 | 2 | 30 | National Bee Board, GoI |
| 2. | Capacity building programme of EWR of PRI | Women empowerment | Feb.18 | 03 | PF | 01 | 0 | 0 | 0 | 40 | 4 | 3 | 40 | 4 | 3 | 47 | NIPCCD, Delhi |
| 3. | Seed production of Wheat | Seed production | March,1 8 | 05 | PF | 05 | 185 | 50 | 15 | 0 | 0 | 0 | 185 | 50 | 15 | 250 | BRBN, Patna |
| 4 | Seed production of Wheat | Seed production | March,1 8 | 01 | PF | 01 | 49 | 11 | 5 | 0 | 0 | 0 | 49 | 11 | 5 | 65 | NSC, Patna |

3.4. A. Extension Activities (including activities of FLD programmes)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nature of Extension Activity | No. of activities | Farmers | | | | Extension Officials | | | Total | | |
| M | F | T | SC/ ST  (% of total) | Male | Female | Total | Male | Female | Total |
| Field Day | 15 | 1210 | 200 | 1410 | 160 (10%) | 20 | 5 | 25 | 1370 | 225 | 1595 |
| Kisan Mela | 2 | 2100 | 150 | 2250 | 250 | 10 | 5 | 15 | 2310 | 205 | 2515 |
| Kisan Ghosthi | 10 | 900 | 100 | 100 | 250 | 5 | 0 | 5 | 1105 | 150 | 1255 |
| Exhibition | 5 | 715 | 85 | 800 | 140 | 10 | 2 | 12 | 835 | 117 | 952 |
| Film Show | 1 | 1000 | 100 | 1100 | 200 | 25 | 5 | 30 | 1200 | 130 | 1330 |
| Method Demonstrations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farmers Seminar | 1 | 200 | 50 | 250 | 50 | 5 | 0 | 5 | 255 | 50 | 305 |
| Workshop | 1 | 200 | 50 | 250 | 50 | 5 | 0 | 5 | 255 | 50 | 305 |
| Group meetings | 2 | 100 | 30 | 130 | 40 | 2 | 0 | 2 | 142 | 30 | 172 |
| Lectures delivered as resource persons | 16 | 700 | 100 | 800 | 120 | 25 | 10 | 35 | 805 | 150 | 955 |
| Advisory Services | 10102 | 7000 | 2000 | 9000 | 1000 | 92 | 10 | 102 | 7892 | 2210 | 10102 |
| Scientific visit to farmers field | 400 | 3000 | 1000 | 4000 | 1000 | 100 | 10 | 110 | 3900 | 1210 | 5110 |
| Farmers visit to KVK | 2020 | 1500 | 300 | 1800 | 200 | 20 | 0 | 20 | 1700 | 320 | 2020 |
| Diagnostic visits | 150 | 90 | 40 | 130 | 20 | 0 | 0 | 0 | 110 | 40 | 150 |
| Exposure visits | 3 | 73 | 17 | 90 | 10 | 4 | 1 | 5 | 87 | 18 | 105 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 3 | 1080 | 262 | 1342 | 2.7 | 6 | 1 | 7 | 1086 | 263 | 1349 |
| Animal Health Camp | 20 | 200 | 20 | 220 | 50 | 10 | 0 | 10 | 260 | 20 | 280 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 1 | 500 | 100 | 600 | 100 | 50 | 0 | 50 | 650 | 100 | 750 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 10 | 50 | 300 | 350 | 50 | 10 | 10 | 20 | 100 | 310 | 410 |
| Mahila Mandals Conveners meetings | 2 | 5 | 200 | 205 | 20 | 0 | 5 | 5 | 15 | 215 | 230 |
| Celebration of important days (specify) |  |  |  |  |  |  |  |  |  |  |  |
| Sankalp Se Siddhi | 1 | 800 | 100 | 900 | 125 | 10 | 0 | 10 | 910 | 125 | 1035 |
| Swatchta Hi Sewa | 15 | 910 | 300 | 1210 | 215 | 10 | 5 | 15 | 1110 | 320 | 1430 |
| Mahila Kisan Divas | 1 | 5 | 80 | 85 | 15 | 0 | 4 | 4 | 10 | 94 | 104 |
| Video conferencing | 34 | 600 | 80 | 680 | 50 | 5 | 0 | 5 | 645 | 90 | 735 |
| Kisan Chaupal | 40 | 1000 | 200 | 1200 | 250 | 10 | 10 | 20 | 1210 | 260 | 1470 |
| Rabi Maha-Abhiyan | 1 | 1800 | 400 | 2200 | 400 | 20 | 10 | 30 | 2120 | 510 | 2630 |
| Kharif Maha-Abhiyan | 1 | 1600 | 450 | 2050 | 350 | 15 | 10 | 25 | 1915 | 510 | 2425 |
| world soil health day | 1 | 650 | 90 | 720 | 114 | 15 | 5 | 20 | 765 | 109 | 874 |
| Total |  |  |  |  |  |  |  |  |  |  |  |

B. Other Extension activities

|  |  |
| --- | --- |
| Nature of Extension Activity | No. of activities |
|
| Newspaper coverage | 90 |
| Radio talks | 20 |
| TV talks | 02 |
| Popular articles | 10 |
| Extension Literature | 5 |
| Other, if any | 6 |

**3.5 a. Production and supply of Technological products : N.A.**

***Village seed***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop | Variety | Quantity of seed  (q) | Value  (Rs) | No. of farmers involved in village seed production | Number of farmers  to whom seed provided |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Total |  |  |  |  |  |

# *KVK farm*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Season | Crop | Variety | Quantity  of seed (q) | Value  (Rs) | Number of farmers  to whom seed provided |
| Rabi- 2016-17 | Wheat | HD-2967 | 110.0 | 3,00,000.00 |  |
| HI-1563 | 90.0 | 2,00,000.00 |  |
| Chickpea | GCP-105 | 5.0 | 40,000.00 |  |
| Pusa-256 | 5.0 | 40,000.00 |  |
| Lentil | HUL-57 | 5.0 | 40,000.00 |  |
| Kharif-2017 | Paddy | R.M.-I | 40.40 | 1,00,000.00 |  |
| MTU-7029 | 245.60 | 2,50,000.00 |  |
| R. Sweta | 93.20 | 1,50,000.00 |  |
| Rabi- 2017-18 | Wheat | HD-2985 | 80.0 | 2,00,000.00 |  |
| HD-2967 | 120.0 | 3,00,000.00 |  |
| Lentil | IPL-406 | 5.0 | 50,000.00 |  |
| Chickpea | GCP-105 | 10.0 | 80,000.00 |  |

# Production of planting materials by the KVKs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop | Variety | No. of planting materials | Value  (Rs) | Number of farmers to  whom planting material provided |
| **Vegetable seedlings** |  | | | |
| Cauliflower | Sabour Agrim | 15000 | 0 | 100 |
| Cabbage | Pusa snow | 5000 | 0 | 20 |
| Tomato | Kasi Vishesh, Ankur | 25000 | 0 | 50 |
| Brinjal | PH-9 & PH-6 | 20000 | 0 | 40 |
| Chilli | Pusa Jwala | 10000 | 0 | 40 |
| Onion | - | 0 | 0 | 0 |
| Others | - | 0 | 0 | 0 |
| **Fruits** | - | 0 | 0 | 0 |
| Mango | - | 0 | 0 | 0 |
| Guava | Allabadi Safeda | 50 | 0 | 5 |
| Lime | - | 0 | 0 | 0 |
| Papaya | Pusa Nanha | 1000 | 0 | 25 |
| Banana | G-9, Robosta, Chinia | 250 | 0 | 25 |
| Others | - | 0 | 0 | 0 |
| Ornamental plants | Pusa Narangi | 20000 | 0 | 20 |
| Medicinal and Aromatic | Sim Samridhi, KS-9, R-5, CS-1 | 30000 | 0 | 20 |
| Plantation | - | - | - | - |
| Spices | - | - | - | - |
| Turmeric | - | - | - | - |
| Tuber | - | - | - | - |
| Elephant yams | - | - | - | - |
| Fodder crop saplings | - | - | - | - |
| Forest Species | - | - | - | - |
| Others, pl.specify | - | - | - | - |
| Total |  | 126300 |  | 345 |

**Production of Bio-Products: Not applicable**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of product | Quantity, Kg | Value (Rs.) | No. of Farmers benefitted |
| Bio-fertilizers |  |  |  |
| Bio-pesticide |  |  |  |
| Bio-fungicide |  |  |  |
| Bio-agents |  |  |  |
| Others, please specify. |  |  |  |
| Total |  |  |  |

# Production of livestock materials: Not applicable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers benefitted |
| Dairy animals |  |  |  |  |
| Cows |  |  |  |  |
| Buffaloes |  |  |  |  |
| Calves |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| Small ruminants |  |  |  |  |
| Sheep |  |  |  |  |
| Goat |  |  |  |  |
| Other, please specify |  |  |  |  |
| Poultry |  |  |  |  |
| Broilers |  |  |  |  |
| Layers |  |  |  |  |
| Duals (broiler and layer) |  |  |  |  |
| Japanese Quail |  |  |  |  |
| Turkey |  |  |  |  |
| Emu |  |  |  |  |
| Ducks |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| Piggery |  |  |  |  |
| Piglet |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| Fisheries |  |  |  |  |
| Indian carp |  |  |  |  |
| Exotic carp |  |  |  |  |
| Mixed carp |  |  |  |  |
| Fish fingerlings |  |  |  |  |
| Spawn |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |
| Grand Total |  |  |  |  |

**3.5. b. Seed Hub Programme-*“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”***

i) Name of Seed Hub Centre:

|  |  |
| --- | --- |
| Name of Nodal Officer : | Mr. Devendra Mandal |
| Address : | KVK, Rohtas, Bikramganj |
| e-mail : | dmandalbau@gmail.com |
| Phone No. :  Mobile : | 06185-222800  9472031176 |

ii) Quality Seed Production Reports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Season | Crop | Variety | Production (q) | | | |
| Target (q) | Area sown (ha) | Production (q) | Category of Seed  (F/S, C/S) |
| Kharif 2017 | - | - | - | - | - | - |
| Rabi 2017-18 | Chickpea | GCP-105 | 80 | 8.0 | 80.0 | F/S |
| Lentil | IPL-406 | 10.0 | 2.0 | 10.0 | F/S |
| Summer/Spring 2018 | - | - | - | - | - | - |

iii) Financial Progress: Not applicable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fund received  (2016-17 and 2017-18) | Expenditure (Rs. in lakhs) | | Unspent balance  (Rs. in lakhs) | Remarks |
| Infrastructure | Revolving fund |
| 2016-17 |  |  |  |  |
| 2017-18 |  |  |  |  |

iv) Infrastructure Development: Not applicable

|  |  |
| --- | --- |
| Item | Progress |
| Seed processing unit |  |
| Seed storage structure |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Title | Author’s name | Number | Circulation |
| Research paper |  |  |  |  |
| Seminar/conference/ symposia papers |  |  |  |  |
| Books | i) Aadhunik Pashupalan evam Chikitsa | Dr. Alok Bharti & Dr. Abhay Kumar | 50 | 50 |
|  | ii) Practical manual to Livestock & Poultry Management | Dr. Alok Bharti & Dr. R. K. Sah | 200 | 150 |
|  | iii) Artificial Insemination in Pig | Dr. Alok Bharti & Dr. R. Kumar | Online | Mass |
| Bulletins |  |  |  |  |
| News letter | Krishak Samachar (Qtrly) | Dr. Reeta Singh & all SMS | 3000 | 2800 |
| Popular Articles |  |  |  |  |
| Book Chapter | ICT in Improving Nutritional knowledge & practice for Rural Women (Advances in ICT in Agriculture) | Dr. Reeta Singh, Dr. Sailabala Dei, Dr. R. Vishwakarma & H.P. Sharma | 1000 | 600 |
|  | Use of ICT in Rural Women Empowerment (Advances in ICT in Agriculture) | Dr. Reeta Singh, Dr. R. Vishwakarma & Dr. Sailabala Dei |  |  |
| Extension Pamphlets/ literature | i) Aadhunik Gay Palan Kyon Aur Kaise? | Dr. Alok Bharti, Dr. Ram Pal, Dr. Ratan Kumar, Mr. D.Mandal & Mr. R.K. Prasad | 500 | 300 |
|  | ii) Mitti Janch Aadharit Samanvit Poshak Tatwa Prabandhan | Dr. Arvind Kumar & Mr. Rakesh Kumar | 200 | 150 |
|  | iii) Rohtas ko Genhu ka Katora Kaise Banaye? | Dr. Ram Pal, Dr. Reeta Singh et. al. | 100 | 60 |
| Technical reports |  |  |  |  |
| Electronic Publication (CD/DVD etc) | Success story of Sri Dilip Kumar Singh, Sri Ritesh Kumar Pandey, Sri Vijay Kumar Singh, Smt. Sangita Gupta | BAU Media Centre for KVK, Rohtas | 04 | 30 |
| TOTAL | 14 |  |  |  |

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

(B) Details of HRD programmes undergone by KVK personnel:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of programme | Name of course | Name of KVK personnel and designation | Date and Duration | Organized by |
| 1. | International Conference | International Conference on "Sustainability of Small holder Agriculture in Developing countries under changing climatic Scenario at CSAUT, Kanpur | Dr. Ram Pal, SMS (Agril. Engg.) | 14-17th Feb. 2018 | CSISA |
| 2. | CSISA | Monitoring learning & evaluation training of CSISA at VKSCoA, Dumraon | 07-09th March, 2018 | CSISA |
| 3. | National convention | National convention programme on "Women empowerment: Challenges & Strategies" | Dr. Reeta Singh, SMS (Home Sc.)  Dr. Ram Pal, SMS (Agril. Engg.) | 05-06th Aug. 2017 | BAU, Sabour |
| 5. | National Seminar | ISEE National Seminar on "Doubling Farmers income and farm productivity through Skill development & technology application" | Dr. Ram Pal, SMS (Agril. Engg.) | 26-30th Nov. 2017 | BAU, Sabour |
| 6. | National Conference | National Conference on "Climate change & Agricultural production" | Dr. Ram Pal, SMS (Agril. Engg.) | 06-08th April, 2017 | BAU, Sabour |
| 7. | CSISA | M.L. & E training of CSISA | Dr. Ram Pal, SMS (Agril. Engg.)  Dr. Alok Bharti, SMS(Vet.Sc.) | 27-29th March, 2017 | BAU, Sabour |
| 8. | CSISA | On farm experimentation & Research training | Dr. Ram Pal, SMS (Agril. Engg.)  Mr. Devendra Mandal, SMS (Agro.) | 21-24th Oct. 2017 | Patna |
| 9. | Gender Empowerment | Brain storming meet on Gender & Social Issues in Bihar Agriculture | Dr. Reeta Singh, SMS (Home Sc.) | 08-09th May, 2017 | DRPCAU, Pusa, Samastipur |
| 10. | Capacity Building | Training of Master Training of Elected Women Representatives of Panchayati Raj Institutions. | 28-30th Nov. 2017 | NIPCCD, New Delhi (EMPI, Chhattarpur, New Delhi) |

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2 best case(s) with suitable action photographs)

**(A) Success Story of Sri Vijay Kumar Singh**

|  |  |
| --- | --- |
| Name of the Farmer/ applicant with complete postal address  Telephone / Mobile number: | **Sri Vijay Kumar Singh**  S/o Sri Kapil Dev Singh  Village: KarmainiKhurd  P.O –Maidhara(Bikramganj)  Distt: Rohtas, Bihar-802212  Mob: 09973131382, 8809614782 |
| Date of Birth | 15.02.1978 |
| Educational Qualification | I.Sc. |
| Landholding (in hectare) | 8.00 |
| Farming Experience (in years) | 12.0 |
| Cropping system adopted by farmer | Rice-Wheat |
| Social recognition such as member, leader, president etc., of social organization | Member Maidhara PACS(Primary Agricultural Cooperative Society) |
| Institutional recognition such as any award, citation etc., received by the farmer | Certificate of appreciation by KrishiVigyan Kendra, Rohtas, Bikramganj(Bihar) -802212 (Photo copy enclosed) |

B. DETAILS OF INNOVATION

|  |  |
| --- | --- |
| Title and Nature of Innovation | **Development of cultivator-cum-multi-crop Zero-till seed drill** |
| Theme | Innovative farm machinery |
| Description of innovation | The innovated machine is two-in- one version of a cultivator and seed drill. The common seed drill is used for sowing of wheat crop only. Whereas, cultivator is used for tillage. Design of seed drill and cultivator is fixed and serves different purposes. However, this new innovated machine can serve multiple purposes like swing of different crops in different row spacing, as well tillage also. Cost of cultivator and seed drill is around Rs. 43,000 whereas the cost of invented machine is only Rs. 32,000. It also saves about 33.33% operation time and 18% fuel as compared to conventional machines. It gives yield at par with conventional seed drill. The comparative feature of the machines are as follows:   |  |  |  |  | | --- | --- | --- | --- | | **Particulars** | **Cultivator** | **Seed drill** | **Innovated machine** | | Purpose | Tillage | Wheat sowing | Tillage+ multiple crops sowing | | Row spacing | Fixed | Fixed | Adjustable | | No of tyne | 9 | 11 | 13 | | Width of frame (cm) | 50.8 | 50.8 | 68.6 | | Width of shovel (cm) | 6.35 | 3.8 | 2.54 (seed drill), 6.35(cultivator) | | Length of tyne (cm) | 43.2 | 43.2 | 45.7 | | Power requirement (HP) | 39 | 39 | 39 | | Cost (Rs) | 14000 | 29000 | 32000 | |
| Problem statement | Tillage and sowing are unavoidable for cultivation of any crop. Farmers need two different machines (cultivator and seed drill) for performing these operations. |
| Process of technology development | **Conceptualization of idea:** The innovator conceptualized the idea first by modifying the conventional seed drill available in the market having 11 tyne to 13 tyne. Then he got an idea of converging cultivator and with modified seed drill resulted into a tow-in -one cultivator -cum-zero till seed drill.  **Scientific rational:**  Developed machine is stronger than conventional cultivator and seed drill having no blockage problem of seed delivery. Row spacing is adjustable and reduced cost of cultivation. Higher tyne length and removal of tyne supporting frame eliminate soil overtopping during operation. |
| Replication and promotion | Based on the performance of the machine the demand for purchase of about 10 machine has been already booked. |

**(B) Success Story of Sri Kumar Premchand**

|  |  |  |
| --- | --- | --- |
| Farmers Name & Address | : | **Sri Kumar Premchand**  S/O- Sri Vishvnath Singh  Vill- Madaripur  Post+Thana- Tilauthu  Distict-Rohtas ,Bihar-802212 ,  Mobile No-80847-31152  **Aadhar No: 5487-1527-9411** |
| Crop & variety | : | Quail Farming along with Hatchery, Fish Farming |
| Background Information | : | Mr. Prem is the youngest among his three brothers. After completing his Matric studies, he was attracted towards fish farming in a single pond of his family. He started doing fish farming on a single pond until 2014, when he visited KVK, Rohtas. KVK, Rohtas helped him by giving training of scientific fish farming and technical support in doing so. KVK also liaisoned with the line departments (Fish farming department and Soil conservation department). With this he enhanced his fish farming and presently he is having 11 pounds in 1 hectare area. Since he is very much linked with the activities of KVK, Rohtas, he took training of Quail farming in the year 2015. Looking at the better prospects of quail farming in the district, he built a hatchery unit of the same along with the quail farming. Presently, he has redefined the quail business in the district and is transporting chicks and adult of surrounding district of Bihar and Uttar Pradesh. He is also involved in Guinea Fowl ( China Murgi) , Emu and Other crop farming in marginal scale. |
| Technology Demonstrated | : | Quail Farming along with Hatchery, Fish Farming |
| Institutional Involvement | : | Krishi Vigyan Kendra, Rohtas is involved in training and technical support to the farmer along with its linkage with the line department for monitory and machinery support. |
| Success Point | : | Scientific fish farming along with his skill of preserving the young ones of fish in extreme winter enables him to produce yearling which fetch high growth rate(double) in next season and also fetch him 4-5 times higher profit in selling of yearlings (Rs. 4.00 compared. It also increased self dependence in having quality fish for next season.  Having Quail hatchery in the district enables him to regulate the price of chick in the other districts of Rohtas and Uttar Pradesh. His low price of chicks and less cost incurred in transportation enables him to deliver quality chicks at reasonably low price. presence of his own hatchery unit gives him freedom to produce adult birds at nearly Rs 6-8/- lesser when compared to other farmers. |
| Outcome | : | The scientific fish, quail farming gave him high reputation and bountiful profits. His success motivated other farmers of the district to adopt fish and quail farming. In Quail farming Mr. Prem single handedly regulated the market price of the chicks and adult birds. He enhanced the profits other farmers by giving them cheaper chicks and selling adult birds at higher rate in and around Rohtas district. He is a source of inspiration for other farmers of the Rohtas district as well. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Practice used** | **Total cost of cultivation** | **Gross income** | **Net income** | **Cost benefit ratio** |
| **Quail Hatchery (6000 chicks /week for 4 months)** | 2520000.00 (Rs. 70000/week for 9 months) | 3240000.00 (Rs. 90000/ Week for 9 months) | 720000.00 (Rs.20000/ week for 9 months) | 1.29 |
| **Quail Adult bird sale (@ 35/- bird** | 1705000.00 (@ Rs. 31/-Bird, 5000.00 Bird/ month for 11 month) | 1925000.00 (@ Rs. 35/- Bird, 5000.00 Birds for 11 months | 220000.00 ( @ Rs. 4/- Bird, 5000.00 Birds / month for 11 months) | 1.13 |
| **Pangas Fish (45000 Yearlings)** | 800000.00 | 1400000.00 | 600000.00 | 1.75 |
| **Roop Chanda Fish (5000 Yearlings)** | 200000.00 | 350000.00 | 150000.00 | 0.57 |
| **Other Fishes (Rohu, Nayan, Katla @ 400 Kg)** | 50000.00 | 150000.00 | 100000.00 | 0.57 |
| **Crops** | 60000.00 | 180000.00 | 120000.00 | 0.57 |
| **Total** | 5935000.00 | 6645000.00 | 1910000.00 | 1.12 |

**Quality Photographs:**

 

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

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

b. Give details of organic farming practiced by the farmer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production | No. of farmers involved | Market available (Y/N) |
| 1. | Vegetable |  |  |  |  |

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. |
| 1 | Soil core sampler with one set of 10 core boxes | 01 |
| 2 | Double Ring infiltrometer apparatus | 01 |
| 3 | Test Sieves 8" Dia brass frame | 01 |
| 4 | Flame Photometer | 01 |
| 5 | Calorimeter | 01 |
| 6 | pH meter | 01 |
| 7 | Conductivity meter | 01 |
| 8 | Multi Heating flame | 01 |
| 9 | Heating plate | 01 |
| 10 | Incubator | 01 |
| 11 | Distillation Unit | 01 |
| 12 | Combined Electrodes | 01 |
| 13 | Gas Cylinder | 02 |
| 14 | Oven | 01 |
| 15 | Flask Shaker | 01 |
| 16 | Soil Testing Kit (Mridaparikshak) | 01 |

3.11.b. Details of samples analyzed so far :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of soil samples analyzed | | | No. of Farmers | No. of Villages | Amount realized  (in Rs.) |
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |  |  |  |
| 200 | 1100 | 1300 | 1025 | 116 | 1,34,392.00 |

3.11.c. Details on World Soil Day

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of Participants | No. of VIPs | Name (s) of VIP(s) | Number of Soil Health Cards distributed | No. of farmers benefitted |
| 1. | Kisan Mela & farm produce exhibition | 590 | 02 | 1) Shri Jawahar Prasad, Ex-MLA, Sasaram Constituency  2) Associate Dean cum Principal, V.K.S. College of Agriculture, Dumraon, Buxar | 385 | 548 |

3.12. Activities of rain water harvesting structure and micro irrigation system

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No of training programme | No of demonstrations | No of plant material produced | Visit by the farmers | Visit by the officials |
| 07 | 00 | 10000 | 250 | 05 |

3.13. Technology week celebration : N.A.

|  |  |  |  |
| --- | --- | --- | --- |
| Type of activities | No. of activities | Number of participants | Related crop/livestock technology |
|  |  |  |  |

3.14. RAWE/ FET programme - is KVK involved? (Y/N): Yes

|  |  |
| --- | --- |
| No. of student trained | No of days stayed |
| 15 boys | 180 |

|  |  |
| --- | --- |
| ARS trainees trained | No of days stayed |
| 0 | 0 |

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Sabhadipati /Other Head of Organization/Foreigners)

|  |  |  |
| --- | --- | --- |
| **Date** | **Name of the person** | **Purpose of visit** |
| 05.10.2017 | Mr. Shailesh Kumar, In-Charge, Central IPM, Patna | KVK, Visit |
| 16.10.2017 | Mr. S.S. Patnayak, Sr. Scientist, ICAR, Cuttak | AICRIP-Rice trial visit & KVK-farm visit |
| Dr. Manish Kumar, Sr. Scientist, ICAR, Cuttak |
| Dr. Anjani Kumar, Sr. Scientist, ICAR, Cuttak |
| 01.11.2017 | Dr. Rewati Raman Singh, Director Seed & Farm, BAU, Sabour | Inauguration programme of BSDM-Gardener domain |
| Dr. Ajay Kumar, Assoc. Dean cum Principal, VKSCoA, Dumraon |
| 02.11.2017 | Mr. Ram Vinod Sharm, Dy Director Agronomist, NSC, Patna | For inspection of processing unit, Farm & KVK Office |
| 16.11.2017 | Mr. Sanjay Kumar, DDM, NABARD, Rohtas | Inauguration of two days training programme on Button Mushroom production. |
| 22.11.2017 | Dr. Prem Kumar, Agriculture Minister, Govt. of Bihar | Monitoring of BSDM- Gardener training and review of KVK work |
| Mrs. Udita Singh, DDC, Rohtas |
| 05.12.2017 | Mr. Jawahar Prasad, Ex-MLA, BJP Sasaram | World Soil day programme |
| 05.02.2018 | Mr. M. Singh, Sachhidanand Foundation, L.A. City, Dehradun | KVK visit |
| 06.02.2018 | Mr. Nikhil Gang, DGM, NTPC, Aurangabad | KVK visit and observing its ongoing programmes |
| Mr. C.K. Thakur, AGM, NTPC, Aurangabad |  |
| 16.02.2018 | Mr. Mukesh Kumar Maurya, Asstt. Director, NTPCCL, Regional Centre, Lucknow | Monitoring of training programme of EWR of PRI members |
| 05.03.2018 | Dr. Ramashrit Singh, Ex-Director National Bee Board, GoI | Seven days training on Bee Keeping |
| 17.03.2018 | Mr. Vashisht Singh, Ex-MLA, Karahgar | Live telecast programme of Hon'ble Prime Minister |
| Dr. Ajay Kumar, Assoc. Dean cum Principal, VKSCoA, Dumraon |
| 19.03.2018 | Dr. Arvind Kumar, Regional Director, ARI, Patna | KVK visit |
| 26.03.2018 | Mr. Sunil Kumar Pandey, DSM, (BSDM) Rohtas | Inspection of ongoing batch for Medicinal Plants Grower |
| 27.03.2018 | Mr. Radha Raman, DAO, Rohtas | Attending SAC meeting |
| Mr. Vijay Kumar Dwivedi, PD, ATMA, Rohtas |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Parameters**  **Technology** | **Production (Q/Ha.)** | | **Change in Productivity**  **(%)** | **Saving (Rs./Ha.)** | | **Adoption Rate (%)** |
| **Before** | **After** | **Production cost (Rs./Ha.)** | **Profit / Input** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| 1. Single Seedling Transplanting of Paddy | 40 | 65 | 62.5 | 550.00 | Seed - 22 kg | 80% of paddy area (1.6 lakh ha) |
| 2. SRI- Method of Paddy transplanting | 65 | 120 | 84.61 | 75.00 | Seed: 03kg | 10% of total paddy area |
| 3. ZTT in wheat sowing | 20.5 | 23.50 | 15.00 | 2500.00 | Seed: 25kg | 60% of total wheat area (90,000 ha) |
| 4. Rejuvenation of Guava Orchards | 362.5 | 400 | 9.37 | - | Profit -Rs. 50,000.0 | 40% of total Guava area (260 ha) |
| 5. Green Manuring in Kharif Paddy | - | - | - | 510.00 | Urea : 85 Kg. | 15% of total paddy area (30,000 ha), soil health improvement |
| 6. Drudgery Reduction Technology for farm-women (Naveen Sickle) | - | - | - | 314.00 | Labour= 02 | 30% area coverage i.e. 15000 Ha |
| 7. Waste material management through vermi-composting | - | - | - | 16000/unit | Cow dung: 30 ton | 400 farmers utilizing waste materials worth of 60.00 lakhs Rupees. |
| 8. Mushroom Production for women's empowerment | - | - | - | - | Rs. 14000.00 per season | 10% of small & landless family |
| 9. Value addition for women's empowerment (Fruit/Veg.) | 03 SHGs (No. of SHGs involved) | 20 SHGs | 566.00 (% increase in No.) | - | Rs.2.00 lakhs per SHGs /Annum | Adoption: 10% |
| 10. Straw baler for management of crop residue | - | - | - | 2664.00 | urea: 23.76 kg | Adoption : 120 ha |
| 11. Paddy Transplanter for labour saving | - | - | - | Crop residue : 4300 Kg. | Labour = 17 | Adoption : 60 Ha. |
| 12. Urea-saving in paddy through Urea-incubated Vermi-compost for soil health improvement. | 160 (Kgs.)  (Urea/Ha. in top-dressing) | 120 (Kgs.) (Urea/Ha.) | - | 240.00 | Urea = 40Kg/Ha. | Adoption :5% area under paddy cultivation i.e. 10000 Ha. |
| 13. Neem based insecticide for the control of BPH in Paddy. | 64.00 | 66.50 | 03.90% | - | Rs. 2500.00  (due to increase in yield) | 5% of total cultivable area under paddy (10000 Ha.) |
| 14. Validamycine as chemical fungicide in the control of sheath blight in paddy. | 65.00 | 66.00 | 1.53% | - | Rs. 1000.00  (due to increase in yield) | 30% of the total cultivable area under paddy  (60000 Ha.) |
| 15. Skill Development of Mahila Ropanhar. | Rs.2800/season | Rs.5250/season | 87.5% | - | Rs.2450/Season | 500 Mahila Ropanhars have been trained so far. |

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

|  |  |
| --- | --- |
| Horizontal spread of technologies | |
| **Technology** | **Horizontal spread** |
| Direct Seeded Rice | 10% |
| Nursery Business Enterprise | 10% |
| Seed Hub | 20% |
| Custom Hiring | 10% |
| Vegetable cultivation through Micro Irrigation | 20% |
| Mushroom production & spawn production | 30% |
| Quail farming | 5% |
| Crop Residue Burning | 7% |
| Vegetable nursery raising | 8% |

Give information in the same format as in case studies

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

4.4. Details of innovations recorded by the KVK

|  |  |
| --- | --- |
| **Thematic area** | Rural Crafts |
| Name of the Innovation | Thread Painting |
| Details of Innovator | Mrs. Ragini Devi (House wife); w/o Shri Alok Kumar Dubey resident of village- Tekanpura, Block- Bikramganj  Education: 10th Pass |
| Back ground of innovation | She was very much interested towards brush painting. But after marriage, due to much more burden of household works and child caring, she has to sacrifice her interest. But after 19 years of marriage due to economical crisis she started her painting (brush) as a profession. As brush painting is more drudgery and time taking, so she started experimenting with thread painting which is much more easier and take very little time and gave more beautiful look. She started getting more return in thread painting than the brush painting. This thread painting is her own innovative idea which made her to take it as enterprise. |
| Technology details | Thread painting |
| Practical utility of innovation | Income generation and women empowerment. |

4.5. Details of entrepreneurship development

|  |  |
| --- | --- |
| **Entrepreneurship development** | |
| Name of the enterprise |  |
| Name & complete address of the entrepreneur |  |
| Role of KVK with quantitative data support: |  |
| Timeline of the entrepreneurship development |  |
| Technical Components of the Enterprise |  |
| Status of entrepreneur before and after the enterprise |  |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise): |  |
| Horizontal spread of enterprise |  |

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| ATMA | Transfer of new Agril. Technology |
| Demonstrate the recommended technology at farmer's field |
| Identification of field problem and their solution at their farmer field |
| Awareness Programme |
| Making farmers aware about latest technologies |
| Capacity building |
| Demonstrating the validity and location specificity of the technology |
| Exposure of farmers at state and district level |
| NHM | Transfer of new Horticultural Technology |
| NABARD | Technology dissemination |
| Kisan Club |
| DAO, DHO, DSCO | Training, Kisan Goshti, Kisan mela & Diagnostic survey |
| SAU’s | Technical support, Kisan Mela |
| District Administration & District Agriculture Officer | Training & Planning of different programmes. |
| NFL, IFFCO, KRIBHCO, PPL, IPL, Tata Chemicals etc. | Soil Health Card, Soil Sample collection & Analysis & Kisan Gosthis, Demonstration |
| ATMA, Rohtas | Technical Support & Training, Kisan Mela, Exposure visit. |
| DDM, NABARD | Kisan Club formation, Training & Demonstration |
| Jeevika, NGOs, Women Dev. Corporation | Training Programme, Gosthi & Mela |

5.2. List of special programmes undertaken during 2017-18 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development : Nil.

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

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the programme/scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
| Capacity Development programme of Elected Women Representative | Capacity building of Elected Women PRI members | 15-17th Feb. 2018 | NIPCCD, New Delhi | 50,500.00 |
| Integrated Farming System | For doubling the farmers' income through IFS | 27-31st Jan. 2018 | ATMA, Bhojpur | 1,20,000.00 |
|  |  |  |  |  |

1. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of demo Unit | Year of estt. | Area (Sq.mt) | Details of production | | | Amount (Rs.) | | Remarks |
| Variety/ breed | Produce | Qty. | Cost of inputs | Gross income |
| 1. | Vermicompost | 2013 | 200 |  |  |  |  |  |  |
| 2. | Azolla | 2017 | 50 |  |  |  |  |  |  |
| 3. | Mushroom | 2013 | 200 |  |  |  |  |  |  |
| 4. | Mushroom Spawn Lab | 2014 | 150 |  |  |  |  |  |  |
| 5. | Soil Lab | 2013 | 200 |  |  |  |  |  |  |
| 6. | Mentha Distillation Unit | 2015 | 200 | Nil | Nil | Nil | Nil | Nil | Shade is not available |
| 7. | Fruit & Veg. processing Unit | 2014 | 200 |  |  |  |  |  |  |
|  | **Total** |  |  |  |  |  |  |  |  |

6.2. Performance of Instructional Farm (Crops)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name  Of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|  |  | Variety | Type of Produce | Qty.(q) | Cost of inputs | Gross income |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

* 1. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,) : Not applicable

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the Product | Qty. (Kg) | Amount (Rs.) | | Remarks |
| Cost of inputs | Gross income |
| 1. |  |  |  |  |  |
|  |  |  |  |  |  |

* 1. Performance of instructional farm (livestock and fisheries production) : Not applicable

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No | Name  of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
| Breed | Type of Produce | Qty. | Cost of inputs | Gross income |
| 1. |  |  |  |  |  |  |  |

* 1. Utilization of hostel facilities

Accommodation available (No. of beds) : 30

|  |  |  |  |
| --- | --- | --- | --- |
| Months | No. of trainees stayed | Trainee days  (days stayed) | Reason for short fall (if any) |
| July-Dec.2017 | 15 | 180 |  |
| Nov.-Dec 2017 | 30 | 38 |  |
| Dec, 17- Jan, 18 | 29 | 25 |  |
| Jan, 2018 | 30 | 05 |  |
| Feb, 2018 | 47 | 03 |  |
| Feb.- March,18 | 30 | 30 |  |
| Total : | 181 | 281 |  |

(For whole of the year)

* 1. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 06

Date of completion: **13.04.2015**

Occupancy details:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Months |  | Q I | Q II | Q III | Q IV | Q V | Q VI |
| June, 2015 | Dr. Ram Pal, SMS (Agril. Engg.) |  | Y |  |  |  |  |
| June, 2015 | Scientist Qtr (Dr. Rubi Saha) |  | Y |  |  |  |  |
|  | Farm Manager Qtr (Vacant) |  |  |  |  |  |  |
|  | Programme Coordinator (Vacant) |  |  |  |  |  |  |
|  | Supporting staff (Vacant) |  |  |  |  |  |  |
|  | Supporting staff (Vacant) |  |  |  |  |  |  |

1. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

|  |  |  |  |
| --- | --- | --- | --- |
| Bank account | Name of the bank | Location | Account Number |
| RAU Unit KVK Bikramganj | SBI, Bikramganj | Bikramganj | 11380836324 |
| Revolving Fund A/c KVK Bikramganj | SBI, Bikramganj | Bikramganj | 30529582348 |

* 1. Utilization of funds under CFLD on Oilseed *(Rs. In Lakhs)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on - 31st March, 2018 |
| Kharif | Rabi | Kharif | Rabi |
| Mustard | - | 300000 | - | 295000 | 6000 |
| Linseed | - | 100000 | - | 97000 | 3000 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2013 |
| Kharif | Rabi | Kharif | Rabi |
| Pigeon pea | 150000 | - | 150000 | - | Nil |
| Chick pea |  | 225000 | - | 223000 | 2000 |
| Lentil |  | 225000 | - | 222000 | 3000 |
| Field pea |  | 75000 | - | 75000 | Nil |

7.4. Utilization of KVK funds during the year 2017-18 (Not audited)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No. | Particulars | Sanctioned | Released | Expenditure |
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 7500000 | 75,00,000 | 7224824 |
| 2 | Traveling allowances | 112000 | 112000 |  |
| 3 | HRD | 10000 | 10000 | 9000 |
| 4 | Contingencies | | | |
| *A* | Office contingency | 843000 | 843000 | 843000 |
| *B* | Training | 490000 | 490000 | 490000 |
| *C* | FLD | 112000 | 112000 | 112000 |
| *D* | OFT | 98000 | 98000 | 98000 |
| *E* | Soil Lab | 28000 | 28,000 | 28,000 |
| *F* | Maintenance of Building | 45000 | 45,000 | 45,000 |
| *G* | Kisan Mela | 42000 | 42,000 | 42,000 |
| *H* | Contractual Manpower | 220000 | 220000 |  |
| *I* | Swatchta Expenditure | - | - |  |
| TOTAL (A) | | **9500000** | **9500000** |  |
| B. Non-Recurring Contingencies | | | | |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| TOTAL (B) | |  |  |  |
| C. REVOLVING FUND | |  |  |  |
| GRAND TOTAL (A+B+C) | |  |  |  |

7.5. Status of revolving fund (Rs. in lakh) for last three years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 (Kind + cash) |
| 2015-16 | 4005121 | 2001635 | 1084883 | 4921873 |
| 2016-17 | 4921873 | 2169864 | 1139116 | 5952621 |
| 2017-18 | 5952621 | 1277425 | 1127917 | 6102129 |

* 1. (i) Number of SHGs formed by KVKs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

(iii) Details of marketing channels created for the SHGs

* 1. Joint activity carried out with line departments and ATMA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of activity | Number of activity | Season | With line department | With ATMA | With both |
| Training | 20 | Kharif |  | ATMA |  |
| Training | 18 | Kharif | Jeevika |  |  |
| Training | 15 | Rabi |  | ATMA |  |

8. Other information

8.1. Prevalent diseases in Crops

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the disease | Crop | Date of outbreak | Area affected (in ha) | % Commodity loss | Preventive measures taken for area (in ha) |
| Sheath Blight | Paddy | 1st week of Aug. | 50000 | 6 | Use of Validamycine @ 400ml/acre |
| Late Blight | Potato | 1st Week of Jan. | 10000 | 10 | Redomil @ 1 ml/lit. of water |
| Fruit Borer | Brijal & Tomato | 1st of Feb. & March | 10000 | 15 | Perpenophos 2 ml./lit. of water & SAAF 2gm./lit. of water |

8.2. Prevalent diseases in Livestock/Fishery

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the disease | Species affected | Date of outbreak | Number of death/ Morbidity rate (%) | Number of animals vaccinated | Preventive measures taken in pond (in ha) |
| FMD | Cattle | May- June | 5-10% / 80-90% | 20000 | Timely Vaccination |
| PPR | Goat | November- December | 85-90% / 90% | 15000 | Timely Vaccination |

9.1. Nehru Yuva Kendra (NYK) Training: ***Not applicable***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title of the training programme | Period | | No. of the participant | | Amount of Fund Received (Rs) |
| From | To | M | F |
|  |  |  |  |  |  |

9.2. PPV & FR Sensitization training Programme

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date of organizing the programme | Resource Person | No. of participants | Registration (crop wise) | |
| Name of crop | No. of registration |
| 11.04.2018 | i) Vice Chancellor, BAU, Sabour  ii) Director, ATARI, Patna  iii) Director Extension Education, BAU, Sabour  iv) Principal, VKSCoA, Dumraon | 350 | i) Wheat  ii) Turmeric  iii) Azwain  iv) Zawain  v) Garlic  vi) Ginger  vii) Moong  viii) Bottle gourd  ix) Sugarcane  x) Methi | 01  06  02  02  01  02  01  02  01  02 |

9.3. *mKisan*Portal (National Farmers’ Portal/ SMS Portal)

|  |  |  |
| --- | --- | --- |
| **Type of message** | **No. of messages** | **No. of farmers covered** |
| Crop | 1 | 2527 |
| Livestock | 0 | 0 |
| Fishery | 1 | 9498 |
| Weather | 0 | 0 |
| Marketing | 1 | 9058 |
| Awareness | 1 | 4076 |
| Training information | 15 | 75513 |
| Other | 3 | 27090 |
| **Total** |  |  |

9.4. *KVK* Portal and Mobile App

|  |  |  |
| --- | --- | --- |
| Sl. No. | Particulars | Description |
| 1. | No. of visitors visited the portal | *40,000* |
| 2. | No. of farmers registered in the portal | *9320* |
| 3. | Mobile Apps developed by KVK | *-* |
| 4. | Name of the App | *-* |
| 5. | Language of the App | *-* |
| 6. | Meant for crop/ livestock/ fishery/ others | *-* |
| 7. | No. of times downloaded | *-* |

9.5. a. Observation of Swacha Bharat Programme

|  |  |
| --- | --- |
| Date of Observation | Activities undertaken |
|
| 08.04.2017 | Awareness programme cum training |
| 21.04.2017 | Office and sarounding area cleaning |
| 06.05.2017 | Farm cleaning |
| 27.05.2017 | Public place cleaning |
| 15.06.2017 | Farm cleaning |
| 30.06.2017 | Office & Surrounding cleaning |
| 04.07.2017 | Awareness programme cum training |
| 27.07.2017 | Farm cleaning |
| 10.08.2017 | Office & Surrounding cleaning |
| 29.08.2017 | Awareness programme cum training |
| 04.09.2017 | Farm cleaning |
| 26.09.2017 | Kisan Gosthi |
| 16.10.2017 | Workshop |
| 27.10.2017 | Awareness programme |
| 24.11.2018 | Public place cleaning |
| 16.12.2018 | Awareness programme |
| 08.01.2018 | Office & Surrounding cleaning |
| 29.01.2018 | Public place cleaning |
| 05.02.2018 | Farm cleaning |
| 28.02.2018 | Crop residue management |
| 21.03.2018 | Office & Surrounding cleaning |
| 30.03.2018 | Crop residue management |

b. Details of Swachhta activities with expenditure

|  |  |  |
| --- | --- | --- |
| **Activities** | **Number** | **Expenditure (in Rs.)** |
| 1. Digitization of office records/ e-office | 0 | 0 |
| 1. Basic maintenance | 04 | 0 |
| 1. Sanitation and SBM | 05 | 0 |
| 1. Cleaning and beautification of surrounding areas | 12 | 4000 |
| 1. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste | 09 | 20000 |
| 1. Used water for agriculture/ horticulture application | 350 | 0 |
| 1. Swachhta Awareness at local level | 18 | 8000 |
| 1. Swachhta Workshops | 01 | 80000 |
| 1. Swachhta Pledge | 07 | 3000 |
| 1. Display and Banner | 37 | 11000 |
| 1. Foster healthy competition | 03 | 0 |
| 1. Involvement of print and electronic media | 03 | 0 |
| 1. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 06 | 18000 |
| 1. No. of Staff members involved in the activities | 14 | 8000 |
| 1. No of VIP/VVIPs involved in the activities | 06 | 14000 |
| 16. Any other specific activity (in details) | 22 | 44000 |
| **Total** | **497** | **210000** |

9.6. Observation of National Science day : Not applicable

|  |  |
| --- | --- |
| Date of Observation | Activities undertaken |
|
|  |  |

9.7. Programme with Seema Suraksha Bal (BSF) : Not applicable

|  |  |  |
| --- | --- | --- |
| Title of Programme | Date | No. of participants |
|  |  |  |

9.8. Agriculture Knowledge in rural school:

|  |  |  |  |
| --- | --- | --- | --- |
| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
| DAV Public School, Bikramganj | 18-20.06.2017 | Learning of Science as fun | Audio visual & literature |
| DAV Public School, Bikramganj | 30.08.2017 | Kisan Mela, Stall visit | Audio visual & literature |
| J.N. College, Dehri on Sone | 07.09.2017 | National Nutrition week | Audio visual & literature |
| S.N.Global School, Bikramganj | 01.02.2018 | Introduction of components of agricultural education | Audio visual & literature |

Give good quality 1-2 photograph(s)

 

9.9. Details of ‘*Sankalp Se Siddhi’*Programme

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date of programme | No. of Union Ministers attended the programme | No. of  Hon’ble MPs (Loksabha/ Rajyasabha) participated | No. of State Govt. Ministers | Participants (No.) | | | | | | | Coverage by Door Darshan (Yes/No) | Coverage by other channels (Number) |
| Ex-MLAs Attended the programme | Chairman Zila Panchayat | Distt. Collector/ DM | Bank Officials | Farmers | Govt. Officials, PRI members etc. | Total |
| 30.08.2017 | 01 | Shri Chhedi Paswan | - | 01 | 10 | - | 02 | 1150 | 10 | 1173 | Yes | 01 |

9.10. Details of Swachhta Hi Sewa programme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 1. | Sewa Divas  (17th  Sept. 2017) | 5 | 400 | Mukhiya & Ward members |  |
| 2. | Samagra Swatch Divas 24th Sept. 2017 | 3 | 175 | Sarpanch |  |
| 3. | Sarwatra  Swachha 25thSept. 2017 | 2 | 160 | Mukhiya |  |
| 4. | Swachhta of nearby Tourist Sept.2017 | 1 | 55 | Ward Parshad |  |
| 5. | Public Function/ Award ceremony | - | - | - |  |
| 6. | Other Misc. activities | 1 | 82 | DDM NABARD & PD, ATMA, |  |

9.11. Details of Mahila Kisan Divas programme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | To empower rural women involved in agriculture & allied activities like - various equipments used to reduce drudgery in farm operation, health & nutrition, sanitation & Hygiene. Stall exhibition on various agriculture enterprise & processed food products. | 21 | 87 | 02 | i) Mrs. Asha Devi  Vice-Chairperson  Zila Parisad,Bikramganj  ii) Dr. A.K. Singh,  Sr. Scientist-Plant Breeding, AICRIP-Rice, BRU, Dhangain |

9.12. No. of Progressive/Innovative/Lead farmer identified (category wise)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No. | Name of Farmer | Address of the farmer with contact no. | Mob. No. | Innovation/ Leading in enterprise |
| 1 | Sri Dilip Kumar | Village- Mehaddiganj, Block- Sasaram, Rohtas | 8986372988 | Lead & Innovative |
| 2 | Smt. Shanti Devi | Village- Taran, Block- Nokha, Rohtas | 9430228381 | Lead & Innovative |
| 3 | Sri Vijay Bahadur Singh | Village- Sabeya, Block - Rajpur, Rohtas | 8002119937 | Lead & Innovative |
| 4 | Sri Nand Lal Vishwakarma | Village- Amra, Block- Sasaram, Rohtas | 7870992048 | Lead & Innovative |
| 5 | Sri Rajeev Ranjan | Village+Block - Kochas, Rohtas | 9934940845 | Lead & Innovative |
| 6 | Sri Lokesh Kumar | Village- Kushahi, Block- Karahgar, Rohtas | 8873937726 | Lead & Innovative |
| 7 | Sri Dhananjay Singh | Vill- Tarar, Po- Tarar, Nokha, Nokha | 9431484238 | Lead & Innovative |
| 8 | Sri Surendra Pd. Singh | Vill.- Belari, Karahgar, Rohtas | 9471215955 | Lead & Innovative |
| 9 | Sri Binay Prakash Choudhary | Vill- Gushi Khurd, Po- Bikramganj | 9431483471 | Lead & Innovative |
| 10 | Sri Deen Dayal Singh | Vill.+P.O.- Nasriganj, Block- Nasriganj | 8862826250 | Lead & Innovative |
| 11 | Sri Jai Prakash Singh | Vill- Amethi, Po- Sanjhauli | 9006821851 | Progressive |
| 12 | Sri Sukhdeo Singh | Vill.- Pipara, PO- Karakat, Rohtas | 9934816532 | Lead & Innovative |
| 13 | Smt. Prabhawati Devi | Vill.- Barun, PO- Suryapura | 9162099877 | Lead & Innovative |
| 14 | Sri Rajnikant Singh | Vill.- Babhani, Karahgar, Rohtas | 7352245580 | Innovative |
| 15 | Sri Bikhari Rai | Vill.- Surhuriya, PO- Agrerkala, Rohtas | 9431678969 | Progressive |
| 16 | Sri Sunil Kumar Singh | Vill.- Basgitiya, PO- Bikramganj, Rohtas | 9546018433 | Progressive |
| 17 | Sri Arjun Singh | Vill.- Masauna, P.O.-Sanjhauli, Rohtas | 7250991479 | Progressive |
| 18 | Sri Satyendra Kumar | Vill- Chandi, PO- Akhorigola | 9006296155 | Progressive |
| 19 | Smt. Gangotri Devi | Vill- Basgitiya, PO- Bikramganj | 9386215528 | Progressive |
| 20 | Sri Kamaldeo Rai | Vill- Varuna Po- Bikramganj | 9973624833 | Progressive |
| 21 | Sri Manoj Kumar Singh | Vill.- Akashi, P.O.- Mokar, | 8804646940 | Innovative |
| 22 | Sri Harivansh Choudhary | Vill- Laxamanpur, Po- Khusiya Kala, PS-Bikramganj, Rohtas | 9835883732 | Innovative |
| 23 | Sri Veer Kamlesh Singh | Vill- Tipa , Po+Ps- Nauhatta , Rohtas | 9430842120 | Innovative |
| 24 | Sri Banarsi Singh | Vill.- Chandi, Akodhigola, Rohtas | 9939489420 | Innovative |
| 25 | Sri Birendra Kumar Singh | Vill.- Bensagar, Karakat, Rohtas | 9955261831 | Innovative |

9.13. HRD programmes attended by KVK person

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Training programme/ Seminar/ Symposia/ Workshop etc attended | Duration | Name of the  participants | Designation | Organizer of the training Programme |
| International Conference on "Sustainability of Small holder Agriculture in Developing countries under changing climatic Scenario at CSAUT, Kanpur | 14-17th Feb. 2018 | Dr. Ram Pal | SMS (Agril. Engg.) | CSISA |
| Monitoring learning & evaluation training of CSISA at VKSCoA, Dumraon | 07-09th March, 2018 |
| National convention programme on "Women empowerment: Challenges & Strategies" | 05-06th Aug. 2017 | Dr. Reeta Singh  Dr. Ram Pal | SMS (Home Sc.) SMS (Agril. Engg.) | BAU, Sabour |
| ISEE National Seminar on "Doubling Farmers income and farm productivity through Skill development & technology application" | 26-30th Nov. 2017 | Dr. Ram Pal, | SMS (Agril. Engg.) | BAU, Sabour |
| National Conference on "Climate change & Agricultural production" | 06-08th April, 2017 | Dr. Ram Pal, | SMS (Agril. Engg.) | BAU, Sabour |
| M.L. & E training of CSISA | 27-29th March, 2017 | Dr. Ram Pal,  Dr. Alok Bharti, | SMS (Agril. Engg.) SMS(Vet.Sc.) | BAU, Sabour |
| On farm experimentation & Research training | 21-24th Oct. 2017 | Dr. Ram Pal,  Mr. Devendra Mandal, | SMS (Agril. Engg.)  SMS (Agro.) | Patna |
| Brain storming meet on Gender & Social Issues in Bihar Agriculture | 08-09th May, 2017 | Dr. Reeta Singh, | SMS (Home Sc.) | DRPCAU, Pusa, Samastipur |
| Training of Master Training of Elected Women Representatives of Panchayati Raj Institutions. | 28-30th Nov. 2017 | NIPCCD, New Delhi (EMPI, Chhattarpur, New Delhi) |

9.14. Revenue generation

| **Sl.No.** | **Name of Head** | **Income(Rs.)** | **Sponsoring agency** |
| --- | --- | --- | --- |
| 1. | Training on IFS | 20538.00 | PD. ATMA, Bhojpur |
| 2. | Gardener Training | 33480.00 | BSDM |
| 3. | Mushroom Grower Training | 24000.00 | BSDM |
| 4. | Medicinal Plants Grower | 28800.00 | BSDM |
| 5. | Training on Seed Production | 1000.0 | NSC, Patna |
| 6. | Soil Sample analysis | 32170.00 | KVK, Rohtas |
| 7. | Farmers' Meeting | 1000.00 | SBI, Bikramganj |
| 8. | Gues House Charges | 6650.00 | CSISA |
| 9. | Capacity Building Programme | 27000.00 | EWR |

9.15. Resource Generation:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Name of the programme | Purpose of the programme | Sources of fund | Amount  (Rs. lakhs) | Infrastructure created |
| 1. |  |  |  |  |  |

9.16. Performance of Automatic Weather Station in KVK : Not applicable

|  |  |  |
| --- | --- | --- |
| Date of establishment | Source of funding i.e. IMD/ICAR/Others (pl. specify) | Present status of functioning |
|  |  |  |
|  |  |  |

9.17. Contingent crop planning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the state | Name of district/KVK | Thematic area | Number of programmes organized | Number of Farmers contacted | A brief about contingent plan executed by the KVK |
|  |  |  |  |  |  |

10. Report on Cereal Systems Initiative for South Asia (CSISA)

1. Year: 2017-18
2. Introduction / General Information:

Rice –wheat is the major production system of the district. To augment the system productivity, KVK, Rohtas joined hands with CMYYIT through CSISA project to support wide spread adoption of sustainable intensification technologies to spur Agricultural growth, both within the time horizon of the project and beyond since Rabi 2016-17. The expected output of the project is as follows:

1. Conduct multi-location farmer’s participatory trials and evaluation of integrated crop and resource management practices that enhance crop performance, resource use efficiency and farmer’s income and revise the package of practices.
2. Monitor, Evaluate and provide feedback on farmers’ acceptance of new technologies and to sensitize policy and decision makers to develop policies that enable wider dissemination.
3. Training of Trainers (ToTs) and development of training material including videos, fact sheets, tips, and leaflets for business development of service providers, dealers and extension agencies
4. Conduct research on participatory technology development and extension approaches

**Results of trials conducted during 2017-18 ( Kharif-2017)**

**Title: KVK-1. Long term trials on improving rice –wheat cropping system (RWCS) productivity using different crop establishment methods**

**Objectives:**

To investigate the effect of crop establishment (CE) methods and cultivar choice on the system productivity of RWCS.

To understand crop responses to the combination of practices so that management systems can be devised for high and sustainable combined yield.

**Treatments:**

|  |  |
| --- | --- |
| **S. No.** | **Treatments** |
| 1 | Conventional-till transplanted rice with 155-160 days varieties fb Zero-till wheat (PTR-ZTW) |
| 2 | Conventional-till transplanted rice with 155-160 days varieties fbconventional-till wheat (PTR-ZTW) |
| 3 | Conventional tillage puddled transplanted short/medium rice fb Zero tillage wheat (PTR-ZTW) |
| 4 | Conventional tillage puddled transplanted short/medium rice fbconventional till wheat (PTR-ZTW) |

**No of replication: 15**

**Date of sowing:** As per trail schedule

* Long duration rice varieties (TPR): DOT will range from10th to 20th June, 21st to 30th June and 1st to 20th July, 21st July to 31st July.
* Medium duration rice varieties/hybrids: (TPR): DOT will range from 21st to 30th June and 1st to 20th July, 21st July to 31st July, 1st August to 10th August.

**Results and photograph:** As only Long and medium duration paddy variety is popular in Rohtas, trials on short duration paddy was omitted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Treatments** | **Average of tillers/ m2** | **Average of unfilled** | **Average of filled** | **Average of 1000 grain wt, gm** | **Average of bio yield/ 4m2** |
| **PTR-CTW** | **159.02** | **22.77** | **244.46** | **23.84** | **12.28** |
| Long | 166.71 | 22.00 | 243.21 | 23.87 | 12.27 |
| Medium | 151.33 | 23.54 | 245.71 | 23.82 | 12.28 |
| **PTR-ZTW** | **176.06** | **22.77** | **244.46** | **24.06** | **12.35** |
| Long | 200.79 | 22.00 | 243.21 | 24.49 | 12.41 |
| Medium | 151.33 | 23.54 | 245.71 | 23.63 | 12.28 |
| **Average** | **167.54** | **22.77** | **244.46** | **23.95** | **12.31** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PTR-CTW** | **3.08** | **30.69** | **7.69** | **0.25** |
| Long | 3.22 | 30.67 | 8.05 | 0.26 |
| Medium | 2.94 | 30.70 | 7.34 | 0.24 |
| **PTR-ZTW** | **3.07** | **30.87** | **7.68** | **0.25** |
| Long | 3.17 | 31.02 | 7.94 | 0.26 |
| **Treatments** | **Average of grain yield, t/ha** | **Average of bio yield t/ha** | **Average of grain yield t/ha** | **Average of harvesting index** |
| Medium | 2.97 | 30.71 | 7.43 | 0.24 |
| **Average** | **3.08** | **30.78** | **7.69** | **0.25** |

**Title: KVK-2. Comparative performance of rice establishment methods in different ecologies of Bihar and EUP**

**Objectives:**

1. To evaluate the alternatives to current practice of puddled transplanted rice
2. To understand major drivers of adoption of different CE methods in rice

**Treatments:**

|  |  |
| --- | --- |
| **Sr. No.** | **Treatment details** |
|  | Direct seeding of rice after pre-sowing of irrigation soil mulch (*Vattar*DSR) |
|  | Transplanting (manual) under puddled condition |
|  | Transplanting (machine\*) under non-puddled condition |

**Replication: 8**

**Experimental Protocol:-**

* All treatments will be under **medium duration rice (BPT 5204)**.
* Transplanting (manual/mechanical) will be done from 25th June to 15th July
* DSR sowing will be done from 1st June to 20th June.

**Results and photographs:**

The summary of the trial is given in table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Treatments | No of tillers/m2 | No of filled grain/ ear | No of unfilled grain/ ear | Biological yield kg/4m2 | Grain yield  kg/4 m2 | Cost of cultivation/ ha | Gross return | B:C Ratio |
| DSR | 435.33\* | 235.73 | 27.20 | 10.28 | 2.98 | 37700 | 101229 | 2.68 |
| TPR | 320.53 | 250.33 | 21.20 | 10.23 | 2.85 | 37800 | 96968 | 2.55 |
| MTR | 391.53 | 273.67 | 19.27 | 9.45 | 3.70\* | 33700 | 125777 | 3.373 |
| CD at 5% | 94.69 | 53.92 | 11.83 | 0.79 | 0.50 |  |  |  |

**Title: KVK-3. Effects of delayed transplanting on the growth and the yield of rice.**

**Objectives:**

1. To identify how the problem of missing the optimum time of transplanting be resolved.
2. To estimate the yield of rice transplanted at different times considering different maturity groups of varieties/hybrids
3. To understand the yield gap relative to potential yield with delayed transplanting in each maturity group of variety/hybrid.

**Treatments:**

|  |  |
| --- | --- |
| Duration of Cultivar | Transplanting date |
| 1. Manual transplanting with long duration (150-155 days) variety   (MTU-7029 or Swarna sub 1 or RajenderMasurhi or any newly released variety with same or more yield potential than MTU-7029) | June 20 |
| July 01 |
| July 10 |
| July 20 |
| July 30 |
| 1. Manual transplanting with Medium duration (135-140 days) variety (BPT-5204 or Rajendra SWETA or Arize 6444 or PRH-71) | July 01 |
| July 10 |
| July 20 |
| July 30 |
| August 10 |

**Replication:** 15

**Date of swing: as per schedule**

**Results and photographs:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **No of tillers/m2** | **Average of Filled grain** | **1000 Grain wt, gm** | **Average of Biomass Yield, kg/4 m2** |
| **Long** | **252.97** | **225.89** | **24.50** | **12.00** |
| a | 251.48 | 220.48 | 24.28 | 12.06 |
| b | 264.90 | 245.24 | 24.93 | 12.26 |
| c | 256.86 | 196.00 | 24.49 | 12.10 |
| d | 256.52 | 262.00 | 24.42 | 12.05 |
| e | 235.10 | 205.71 | 24.39 | 11.54 |
| **Medium** | **240.20** | **235.71** | **24.60** | **14.40** |
| a | 224.19 | 223.62 | 24.46 | 10.75 |
| b | 238.24 | 242.24 | 24.77 | 11.23 |
| c | 241.62 | 247.33 | 24.76 | 25.60 |
| d | 256.14 | 238.52 | 24.06 | 12.84 |
| e | 240.81 | 226.86 | 24.97 | 11.56 |
| Average | **246.59** | **230.80** | **24.55** | **13.20** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **Average of Grain yield**  **kg/4m2** | **Average of Bio yield t/ha** | **Average of Grain yield t/ha** | **Average of HI** |
| **Long** | **3.43** | **30.01** | **8.59** | **0.29** |
| a | 3.71 | 30.14 | 9.27 | 0.32 |
| b | 3.55 | 30.65 | 8.89 | 0.29 |
| c | 3.41 | 30.26 | 8.52 | 0.28 |
| d | 3.32 | 30.13 | 8.29 | 0.28 |
| e | 3.19 | 28.84 | 7.97 | 0.28 |
| **Medium** | **2.75** | **35.99** | **6.88** | **0.23** |
| a | 3.12 | 26.89 | 7.81 | 0.29 |
| b | 3.04 | 28.09 | 7.60 | 0.27 |
| c | 2.84 | 64.00 | 7.09 | 0.18 |
| d | 2.52 | 32.10 | 6.30 | 0.20 |
| e | 2.23 | 28.89 | 5.57 | 0.19 |
| Average | **3.09** | **33.00** | **7.73** | **0.26** |

**Title: KVK-4. Impact of age of rice nursery on the growth and yield of transplanted rice**

**Objectives:**

* To understand the effect of seedling age on yield and yield attributes of rice
* To determine the most appropriate age of rice seedling

**Treatments:-**

|  |  |  |
| --- | --- | --- |
| Sr. No. | Age of the nursery | Nursery sowing time |
| T1 | 15-20 days old | 25-30 June |
| T2 | 21-25 days old | 20-25 June |
| T3 | 26-30 days old | 15-20 June |
| T4 | 31-35 days old | 10-15 June |
| T5 | More than 35 days old | 5-10 June |

**Replication:** 10

Results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **No of tillers/m2** | **Average of Filled** | **Average of unfilled** | **Average of Bio mass yield/ 4m2** |
| >35 | 243.57 | 228.27 | 23.30 | 9.03 |
| 15-20 | 284.87 | 163.03 | 15.87 | 10.35 |
| 21-25 | 259.43 | 146.97 | 12.80 | 10.18 |
| 26-30 | 225.97 | 150.20 | 14.77 | 9.24 |
| 31-35 | 230.97 | 147.93 | 14.30 | 13.98 |
| **Grand Total** | **248.96** | **167.28** | **16.21** | **10.56** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **Average of Grain** | **Average of Bio yield t/ha** | **Average of Grain yield t/ha** | **Average of 1000 Gw** |
| >35 | 1.76 | 22.58 | 4.41 | 24.64 |
| 15-20 | 2.82 | 25.88 | 7.04 | 24.59 |
| 21-25 | 2.69 | 25.44 | 6.73 | 24.90 |
| 26-30 | 2.52 | 23.09 | 6.30 | 23.96 |
| 31-35 | 2.20 | 34.95 | 5.49 | 24.70 |
| **Average** | **2.40** | **26.39** | **5.99** | **24.56** |

**Title: KVK-7 Developing entrepreneurship on rice nursery marketing**

**Objectives:**

1. The aim is to create a system that would help farmers to purchase quality nursery immediately after the onset of normal rains.
2. Although there is no parallel between sale of seed and the sale of nursery, but nursery will ensure the quality of seed in respect of germination tests.
3. To understand how KVKs can help in correcting the process of delivery through business development services.
4. To create nursery enterprises among farmers including women farmers

**Treatments:**

|  |  |
| --- | --- |
| Sr. No. | Treatment Details |
| T1 | Sale of nursery |
| T2 | Sale of Seed |

**Replication:** 10

**Results and photographs:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Row Labels** | **Average of Bio Yield/ 4m2** | **Average of Grain yield/4m2** | **Average of 1000 grain wt, gm** | **Average of Bio Yield t/ha** | **Average of Grain yield t/ha** | **HI** |
| Nursery | 12.61 | 3.16 | 24.68 | 31.51 | 7.89 | 0.25 |
| Seed | 16.59 | 2.75 | 24.48 | 41.48 | 6.89 | 0.17 |
| **Average** | **14.60** | **2.96** | **24.58** | **36.50** | **7.39** | **0.20** |

**Title: KVK-9. Management of potassium in rice**

**Objectives:**

* To understand the effect of K together with normal supply of nitrogen and phosphorus on paddy yield.

**Treatments:**

|  |  |
| --- | --- |
| **Sr. No.** | **Treatment Details (N:P2O5:K2O)** |
| **T1** | **120:60:0** |
| **T2** | **120:60:40** |
| **T3** | **120:60:60** |
| **T4** | **120:60:80** |

**No of Replication:** 5

**Protocol:**

* All treatments will be under **medium duration rice (BPT 5204/Arize 6444/PHB 71)**.
* Transplanting (manual/mechanical) will be done from 25th June to 15th July
* BMPs should be followed except for K in all treatments

**Results and photographs:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Average of Panicle** | **Average of filled grain** | **Average of Unfilled grain** | **Average of Bio Yield** |
| **DAP** | **300.82** | **215.01** | **17.88** | **14.26** |
| 120:60:00 | 271.00 | 287.94 | 20.67 | 11.90 |
| 120:60:40 | 282.67 | 190.78 | 19.44 | 11.51 |
| 120:60:60 | 319.00 | 165.33 | 14.28 | 12.07 |
| 120:60:80 | 330.61 | 216.00 | 17.11 | 21.56 |
| **SSP** | **311.53** | **184.72** | **18.75** | **14.28** |
| 120:60:00 | 311.67 | 198.33 | 22.44 | 13.12 |
| 120:60:40 | 313.28 | 162.83 | 16.00 | 11.76 |
| 120:60:60 | 349.61 | 192.11 | 16.28 | 21.12 |
| 120:60:80 | 271.56 | 185.61 | 20.28 | 11.15 |
| **Average** | **306.17** | **199.87** | **18.31** | **14.27** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Average of Grain yield/ 4m2** | **Average of 1000 Gw** | **Average of Bio Yield t/ha** | **Average of Grain Yield t/ha** |
| **DAP** | **3.04** | **25.01** | **35.65** | **7.61** |
| 120:60:00 | 3.10 | 23.94 | 29.76 | 7.75 |
| 120:60:40 | 2.87 | 25.99 | 28.77 | 7.18 |
| 120:60:60 | 3.07 | 24.00 | 30.18 | 7.67 |
| 120:60:80 | 3.13 | 26.12 | 53.89 | 7.83 |
| **SSP** | **3.13** | **332.26** | **35.71** | **7.83** |
| 120:60:00 | 3.40 | 23.27 | 32.79 | 8.51 |
| 120:60:40 | 3.15 | 846.92 | 29.39 | 7.89 |
| 120:60:60 | 3.09 | 23.23 | 52.79 | 7.73 |
| 120:60:80 | 2.88 | 435.64 | 27.87 | 7.19 |
| **Average** | **3.09** | **178.64** | **35.68** | **7.72** |

**Title: KVK-10. Performance of conventional till DSR with and without pre-sowing irrigation**

**Objectives:** To use stale bed technique for efficient crop establishment under DSR and thereby increasing the productivity

**Treatments:**

|  |  |
| --- | --- |
| Set I | |
| T1 | Pre-sowing irrigation (*vattar*) fb fine seed bed preparation fb one irrigation 15 days after sowing |
| T2 | Pre-sowing irrigation fb fine seed bed preparation fb one irrigation 3 weeks after sowing |
| T3 | Manual transplanting as standard check |
| Set II | |
| T1 | Without pre-sowing irrigation fb fine seed bed preparation and sowing fb irrigation immediately after sowing |
| T2 | Without pre-sowing irrigation fb fine seed bed preparation and sowing fb irrigation 15 days after sowing |
| T3 | Manual transplanting as standard check |

**Replication:** 10

**Results and photographs:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **No of tillers/m2** | **Average of Filled grain** | **Average of Unfil grain** | **Average of Bio Yield kg/ 4m2** |
| **DSR (dry fine seed bed)** | **250.73** | **219.52** | **17.23** | **11.74** |
| 15 | 259.05 | 221.17 | 17.53 | 11.92 |
| Same day | 242.40 | 217.87 | 16.93 | 11.56 |
| **DSR (wet fine seed bed)** | **256.83** | **217.05** | **18.18** | **11.84** |
| 15 | 247.80 | 214.40 | 17.83 | 11.73 |
| 21 | 265.85 | 219.70 | 18.53 | 11.95 |
| **TPR** | **268.40** | **247.17** | **17.30** | **12.04** |
| Need based | 268.40 | 247.17 | 17.30 | 12.04 |
| **Average** | **258.65** | **227.91** | **17.57** | **11.87** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **Average of Grain Yield kg/4m2** | **Average of 1000 Grain wt, gm** | **Average of Bio Yield t/ha** | **Average of Grain yield t/ha** |
| **DSR (dry fine seed bed)** | **3.12** | **148.02** | **29.34** | **7.81** |
| 15 | 3.11 | 24.77 | 29.79 | 7.78 |
| Same day | 3.14 | 271.26 | 28.89 | 7.85 |
| **DSR (wet fine seed bed)** | **3.31** | **24.48** | **29.60** | **8.28** |
| 15 | 3.16 | 24.82 | 29.33 | 7.89 |
| 21 | 3.47 | 24.15 | 29.87 | 8.67 |
| **TPR** | **3.29** | **147.72** | **30.10** | **8.23** |
| Need based | 3.29 | 147.72 | 30.10 | 8.23 |
| **Average** | **3.24** | **106.74** | **29.68** | **8.11** |

**Title: KVK 11- Weed management in direct seeded rice dominated *Cyperusrotundus*based mixed weed flora**

**Objectives:** To develop cost effective weed management strategy to improve the productivity and profitability under DSR

**Treatments:**

|  |  |
| --- | --- |
| **T1** | Two manual weedings (15-20 DAS and 30-35 DAS) |
| **T2** | Bispyribac-pyrazosulfuron at 20+20 gma.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS |
| **T3** | Bispyribac + pyrazosulfuron at 20+20 g a.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS fb one manual weeding at 30-35 DAS |
| **T4** | Bispyribac + 20 g a.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS fb one hand weeding |

**Replication: 10**

**Results and Photographs:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Row Labels** | **No of tillers/ m2** | **Average of Filled grain** | **Average of Unfil Grain** | **Average of Bio Yield kg/4m2** | **Average of Grain Yield, kg/4m2** |
| Bispyri (100)+Pyrazosu (80) | 273.20 | 211.50 | 20.00 | 11.84 | 3.09 |
| Bispyri (100)+Pyrazosu (80) fb. 1MW | 278.12 | 213.00 | 18.27 | 11.94 | 3.20 |
| Bispyribac (100ml/acre) | 322.53 | 204.43 | 21.10 | 12.16 | 3.06 |
| Two time | 311.17 | 200.40 | 17.67 | 17.44 | 3.06 |
| **Average** | **296.25** | **207.33** | **19.26** | **13.35** | **3.10** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Row Labels** | **Average of HI** | **Average of 1000 Grain wt** | **Average of Bio yield t/ha** | **Average of Grain yield t/ha** |
| Bispyri (100)+Pyrazosu (80) | 0.27 | 24.53 | 29.60 | 7.73 |
| Bispyri (100)+Pyrazosu (80) fb. 1MW | 0.27 | 24.45 | 29.86 | 8.00 |
| Bispyribac (100ml/acre) | 0.25 | 24.27 | 30.40 | 7.65 |
| Two time | 0.24 | 24.60 | 43.60 | 7.65 |
| **Average** | **0.26** | **24.46** | **33.36** | **7.76** |

**Title:** KVK-12: Precision nutrient management for rice under EIGP ecologies

**Objectives:** To assess fertilizer management tools for sustain productivity

**Treatments:**

**Set 1: Different dates of manual transplanting (long duration varieties) & Nitrogen (N) management through SSNM & recommended**

July 10 transplanted:

July 30 transplanted:

August 05 transplanted:

**Set 2: Different dates of manual transplanting (medium duration varieties/hybrids) & N Management through SSNM & recommended**

July 10 transplanted:

July 30 transplanted:

August 05 transplanted:

**Replications: 4**

**Results :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Average of Panic** | **Average of Filled grain** | **Average of unfilled grain** | **Average of Bio yield** |
| **Long** | **294.34** | **206.70** | **17.57** | **15.08** |
| Recommended | 290.98 | 208.70 | 17.63 | 12.38 |
| SSNM | 297.70 | 204.70 | 17.52 | 17.78 |
| **Medium** | **253.30** | **237.22** | **16.20** | **14.97** |
| Recommended | 248.33 | 231.74 | 17.63 | 18.42 |
| SSNM | 258.26 | 242.70 | 14.78 | 11.51 |
| **Average** | **273.82** | **221.96** | **16.89** | **15.02** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Treatments** | **Grain Yield, kg/4m2** | **Average of HI** | **1000 grain wt, gm** | **Bio Yield t/h** | **Grain Yield t/ha** |
| **Long** | **3.11** | **0.25** | **24.76** | **37.70** | **7.78** |
| Recommended | 3.14 | 0.26 | 24.69 | 30.96 | 7.85 |
| SSNM | 3.08 | 0.25 | 24.83 | 44.44 | 7.70 |
| **Medium** | **2.53** | **0.21** | **23.85** | **37.41** | **6.32** |
| Recommended | 2.52 | 0.19 | 23.79 | 46.05 | 6.30 |
| SSNM | 2.54 | 0.22 | 23.90 | 28.78 | 6.35 |
| **Average** | **2.82** | **0.23** | **24.30** | **37.56** | **7.05** |

**Rabi-2017-18**

**Title:** KVK-1. Performance of short duration and long duration varieties under different sowing schedules across ecologies

**Objective:** Comparative study of yield performance of cultivars recommended for Timely sowing with cultivars recommended for early /late sown conditions under early/ late sown conditions

**Treatments details:**

|  |  |  |
| --- | --- | --- |
| **Treatment** | **Method** | **DOS** |
| **Set 1 with Cultivar HD 2967 or HD 2733** | | |
| 1 | Zero-Till Drill Wheat sowing | 1st to 10th Nov |
| 2 | Zero-Till Drill Wheat sowing | 11th to 20th Nov |
| 3 | Zero-Till Drill Wheat sowing | 21st to 30th Nov |
| 4 | Zero-Till Drill Wheat sowing | 1st to 15th Dec |
| 5 | Zero-Till Drill Wheat sowing | 16th to 31st Dec |
| **Set 2 with Cultivar PBW 373 or HD 2985 or HI 1563** | | |
| 1 | Zero-Till Drill Wheat sowing | 21st to 30th Nov |
| 2 | Zero-Till Drill Wheat sowing | 1st to 15th Dec |
| 3 | Zero-Till Drill Wheat sowing | 16th to 31st Dec |

**Date of Sowing**: As per the trial schedule

**Replication**

Set 1:  10 sites for each treatment (sowing date) having 0.5 acre for any one of the cultivar

Set 2: 10 sites for each treatment (sowing date) having 0.5 acre for any one of the cultivar

**Results with photographs**

Field data are collected, analysis is in progress

**Title:** KVK-2. Assessing the role of additional irrigation during terminal heat stress period during grain filling stage to beat the heat stress and its effect on wheat productivity.

**Objective:** To quantify the gains in wheat productivity from additional irrigation given at dough stage of wheat. To understand the impact of last irrigation on the lodging of wheat

**Treatments details**:

.

|  |  |
| --- | --- |
| **Treatment** | **Method** |
| **Set 1- ZT** | |
| 1 | Without additional irrigation (FP) |
| 2\* | With additional irrigation during terminal heat stress period/grain filling stage in March |
| **Set 2- CT** | |
| 1 | Without additional irrigation (FP) |
| 2\* | With additional irrigation during terminal heat stress period/grain filling stage in March |

Date of Sowing: Nov 1-20th

Replication: 10

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK-3. Response of wheat to fertilizer P applied in both rice & wheat and only in wheat in rice-wheat rotation.**

**Objective:** To assess the potential of Phosphorus applied only in one crop compared to both crops.

Treatment details:

|  |  |
| --- | --- |
| **Treatment** | **Fertilizer application** |
| (Based on State recommendation 120-60-40 for wheat and 100-60-40 for rice) | |
| **1** | Full NPK in wheat fb Full NPK in rice |
| **2** | Full NPK in wheat fb Full NK in rice |

Date of sowing:

No. of replications: 5

**Replication:** Location site will be treated as replication

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK-4. Impact of herbicide application technology on the performance of herbicide in wheat.**

**Objective:** To verify the improvement in weed control based on application, technology fitted with three nozzles boom

**Treatment:**

1. Manual application with three nozzle boom fitted with flat fan nozzles
2. High speed application operated through tractor mounted spray mechanism or Manual application with three nozzle boom fitted with flood jet nozzles
3. Manual application fitted with single nozzle as per farmer practice

**Replication:** 10 sites in each district

**Time of sowing:** As per recommendation

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK-5. Boron deficiency induced sterility in wheat and its effect on the yield and yield attributes of wheat.**

. **Objective:**

1. To understand the interaction of irrigation & Boron and its effect on sterility in wheat
2. A trial with one set of three treatments with different numbers of irrigation will be conducted on multiple farmer’s field

**Treatment:**

|  |  |
| --- | --- |
| Two Irrigation | Control |
| 0.25% Borax (2.5gm/ltr of water) |
| 0.5% Borax ( 5gm/ltr of water) |
| Three Irrigation | Control |
| 0.25% Borax (2.5gm/ltr of water) |
| 0.5% Borax ( 5gm/ltr of water) |
| Four Irrigation | Control |
| 0.25% Borax (2.5gm/ltr of water) |
| 0.5% Borax ( 5gm/ltr of water) |

**No of replication**: 20

**Time of sowing:** November

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK-6. Potential of using pre-seeding herbicide like glyphosate applied immediately before sowing wheat under zero tillage.**

**Objective:**

1. To find out the possibility of crop injury due to pre-seeding application of glyphosate at different times.
2. To find out the effect of pre-seeding glyphosate applied 24-48 hours before sowing on the control of target weeds

**Treatments:**

1. Glyphosate (1.5% spray solution) applied 24hours before sowing
2. Glyphosate (1.5% spray solution) applied 48 hours before sowing
3. Glyphosate (1.5% spray solution) applied 7-10 days before sowing (state recommendation )

**Replication:** 10

**Time of sowing:** As per recommendation

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK 7. Quantifying the gains in wheat productivity through zero-tillage mediated advance sowing of wheat.**

**Objectives:**

i**)** To close yield gaps by late sowing of wheat after rice harvest.

ii) To quantify the profit margins from no-till planting done at different times.

**Treatments**: (Four)

* 1. 1 – 15 Nov. 2. 16-30 Nov.

1. 1-15 Dec. 4. 16-31 Dec.

.Date of Sowing: As per schedule

No of replication: 10

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK 8: Response of nitrogen and Phosphorus applied in to timely sown and late sown wheat**

**Objective:**

To improve NUE and factor productivity and profitability of Nitrogen fertilizers for timely sown and late sown wheat.

**Treatment:**

**Date of sowing**

1 – 15 Nov, 16-30 Nov,

|  |  |
| --- | --- |
| Treatment | Fertilizer application |
| Based on State recommendation | |
| Treatment 1 | 150 N + 60 P +40 K |
| Treatment 2 | 150 N +Replacement P\* (refer note) + 40K |
| Treatment 3 | 120 N + 60P +40 K |
| Treatment 4 | 100 N + 60P +40 K |

1-15 Dec, 16-31 Dec

|  |  |
| --- | --- |
| Treatment | Fertilizer application |
| Based on State recommendation | |
| Treatment 1 | 120 N + 40P+ 20K |
| Treatment 2 | 120 N +Replacement P\* (refer note) + 20 K |
| Treatment 3 | 80 N + 40P+ 20K |
| Treatment 4 | 60 N + 40P+ 20K |

**Results with photographs**

Field data are collected, analysis is in progress

**Title: KVK 9. Residue management in rice -wheat system.**

**Objectives:**

1. To evaluate full mechanized system for rice residue management in R-W system at selected sites
2. To study the effect of rice residue management on carry over of army worm and its effect on wheat productivity

**Treatments**: (Four)

1. Wheat sown with full residue using turbo-seeder
2. ZT with anchored 50% residue
3. ZT without residue

**Replication**: 10

**Time and method of planting**: ZT from Nov 1 to Nov 15

**Results with photographs**

Field data are collected, analysis is in progress

11. Details of TSP : **Not applicable**

1. Achievements of physical output under TSP during 2017-18

|  |  |
| --- | --- |
| **Programmes** | **Physical achievements** |
| Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.) |  |
| On-farm trials (Number) |  |
| Frontline demonstrations (Number) |  |
| Farmers training (in lakh) |  |
| Extension personnel training (in lakh) |  |
| Participants in extension activities (in lakh) |  |
| Seed production (in tonnes) |  |
| Planting material production (in lakh) |  |
| Livestock strains and fingerlings production (in lakh) |  |
| Soil, water, plant, manures samples testing (in lakh) |  |
| Provision of mobile agro – advisory to farmers (in lakh) |  |
| No. of otherprogrammes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) |  |

1. Fund received under TSP in 2017-18 (Rs. In lakh):
2. Achievements of physical outcome under TSP during 2017-18

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Description | Unit | Achievements |
|
| 1 | Change in family income | % |  |
| 2 | Change in family consumption level | % |  |
| 3 | Change in availability of agricultural implements/ tools etc. | No. per household |  |

1. Location and Beneficiary Details during 2017-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***District*** | ***Sub-district*** | ***No. of Village covered*** | ***Name of village(s)***  ***covered*** | ***ST population benefitted***  ***(No.)*** | | |
| M | F | T |
|  |  |  |  |  |  |  |

12. Progress report of NICRA KVK (Technology Demonstration component) during the period

(Applicable for KVKs identified under NICRA) : Not applicable

Natural Resource Management

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | Numbers under taken | No of units | Area (ha) | No of farmers covered / benefitted | Remarks |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Crop Management

|  |  |  |  |
| --- | --- | --- | --- |
| Name of intervention undertaken | Area (ha) | No of farmers covered / benefitted | Remarks |
|  |  |  |  |
|  |  |  |  |

Livestock and fisheries

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | Number of animal covered | Number of units | Area (ha) | No of farmers covered / benefitted | Remarks |
|  |  |  |  |  |  |

Institutional interventions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of intervention undertaken | No of units | Area (ha) | No of farmers covered / benefitted | Remarks |
|  |  |  |  |  |

Capacity building

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Thematic area | No. of Courses | No. of beneficiaries | | |
| Males | Females | Total |
|  |  |  |  |  |
|  |  |  |  |  |

Extension activities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Thematic area | No. of activities | No. of beneficiaries | | |
| Males | Females | Total |
|  |  |  |  |  |
|  |  |  |  |  |

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of the Award | Year | Conferring Authority | Amount | Purpose |
| 1. | Best Extension Scientist | 2018 | BAU, Sabour, Bhagalpur | - | For extension work in the Rohtas district |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Award received by Farmers from the KVK district

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of the Award | Name of the Farmer | Year | Conferring Authority | Amount | Purpose |
| 1. | Best Innovative Farmer Award | Vijay Kumar Singh | 2017 | ICAR, N. Delhi | - | For developing multiple seed drill |
| 2. | Best Innovative Farmer Award | Sri Dharmendra Mali | 2017 | BAU, Sabour | - | For Skill development in flower cultivation |
|  | Best Farmer Award | Sri Vijay Kumar Singh | 2017 | IFFCO | - | For developing multiple seed drill |
|  | Best Innovative Farmer Award | Sri Kumar Premchandra | 2018 | BAU, Sabour | - | For Quail & Fish farming |

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

15. Number of commodity based organizations/ farmers’ cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of the organization/ Society | Trust Deed No.& date | Date of Trust Registration        Address | Proposed Activity | Commodity Identified | No. of Members | Financial position  (Rupees in lakh) | Success indicator |
|  |  |  |  |  |  |  |  |  |

1. Integrated Farming System (IFS) : Not available

Details of KVK Demo. Unit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Module details (Component-wise) | Area under IFS (ha) | Production (Commodity-wise) | Cost of production in Rs. (Component-wise) | Value realized in Rs. (Commodity-wise) | No. of farmer adopted practicing IFS | % Change in adoption during the year |
|  |  |  |  |  |  |  |  |

1. Technologies for Doubling Farmers' Income

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl No | Name of the technology | Brief details of the technology | Net returns to the farmer (Rs) per annum due to the technology | No of farmers adopted the technology in the district | Photograph |
| 1. | Zero tillage sowing of wheat | 1. Advances wheat sowing 2. Saves sowing cost (Rs. 2500/ha) 3. Increases yield (20 %) 4. Saves water and diesel 5. Additional water may be used 6. Lesser weed management cost | 15500/ha | 65-70% | G:\Mobile\IMG-20161216-WA0011.jpg |
| 2. | Modified SRI | 1. Increases yield ( 18%)  2. Saves seed (22kg/ha)  3. Encourages seed replacement rate ( about 85% SRR)  4. Reduces labour requirement  5. Reduces insect pest attack | 24600/ha | 80-85% | 1(b).jpg |
| 3. | Direct Seeded Rice | 1. Saves labour 2. Maintains soil health 3. Advances Rabi crops 4. Promote line sowing 5. Helpful for seed production | 3500/ha | 650 farmers |  |
| 4. | Wheat Straw Reaper | 1. Controls wheat stalk burning 2. Encourages animal husbandry 3. Improves soil health 4. Employment generation | 1500/ha | 60% | Straw reaper.jpg |
| 5. | Mentha cultivation | 1. Utilizes rice fallow 2. Highly remunerative catch crop 3. Employment generation | 85000/ha | 30,000 ha | C:\Users\PAC\Desktop\SAC-2016\Mentha-1 (2).JPG |
| 6. | Quail farming | 1. Provides good returns 2. Employment generation 3. Support nutrition requirement | Rs 15/ bird | 26 farmers | DSCN7086 |
| 7. | Rice Nursery business | 1. Advances whole cropping system 2. Opens new business avenue 3. Increases cropping intensity 4. Helpful for women-led farms | 24560/ha | 265 farmers | F:\moble 25.10.16\IMG-20170804-WA0005.jpg |
| 8. | Mushroom Cultivation | 1. Generate employment for weaker sections 2. Landless faring 3. Ensures nutrient supply | 1500/ month | 15000 farmwomen | Picture1 |

1. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

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| --- | --- | --- | --- | --- | --- |
|  | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
| Phase | Total no. of villages | Total no. of farmers | Date of formation | Name of members |
| I (up-to 15.03.2018) | 20 | 160 | 1st Week of March | All Scientists | Kisan Gosthi, Training, Kisan Chaupal, Video Conferencing, SMS |
| II (up-to 24.04.2018) | 15 | 80 |
| Total | 35 | 240 |

19. Any other programme organized by KVK, not covered above

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the programme | Date of the programme | Venue | Purpose | No. of participants |
|  |  |  |  |  |  |

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