# Annual Progress Report

## (January 2021 - December 2021)


# Krishi Vigyan Kendra, Manpur, Gaya

भाकृअनुप
ICAR

## Directorate of Extension Education

## Bihar Agricultural University, Sabour, Bhagalpur



# PROFORMA FOR ANNUAL REPORT 2021 ( 1st January- 31st December 2021)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

| Name and address of KVK | Telephone | | E-Mail |
|---|---|---|---|
| | Office | FAX | |
| Krishi Vigyan Kendra, Manpur, Gaya - 823003 | | | kvkmanpurgaya@gmail.com |

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

| Name and address of Host Organization | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Vice-Chancellor,<br>Bihar Agricultural University, Sabour, Bhagalpur | 0641-2452606 | 0641-2452606 | vcbausabour@gmail.com |

1.3. Name of Senior Scientist and Head with phone & mobile No.

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. Rajeev Singh | | 9431204379 | kvkmanpurgaya@gmail.com |

1.4. Year of sanction of KVK: **F. No. 18-13/94-AE-I Date: 24.03.2006**

1.5. Staff Position (**as on 31st December 2021**)

| 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. | Senior Scientist& Head | Dr. Rajeev Singh | Senior Scientist & Head | Agronomy | 1,39,400/- (L-13 A) | 05-07-2019 | Permanent | Others |
| 2. | Subject Matter Specialist | Dr. Ashok Kumar | SMS | Extension Education | 87,200/- (L-10 A) | 08-01-2008 | Permanent | OBC |
| 3. | Subject Matter Specialist | Sri Devendra Mandal | SMS | Agronomy | 71,100/- (L-10) | 17-04-2012 | Permanent | OBC |
| 4. | Subject Matter Specialist | Dr. Anil Kumar Ravi | SMS | Animal Science | 71,100/- (L-10) | 20-04-2012 | Permanent | SC |
| 5. | Subject Matter Specialist | | | | | | Vacant | |
| 6. | Subject Matter Specialist | | | | | | Vacant | |
| 7. | Subject Matter Specialist | | | | | | Vacant | |
| 8. | Programme Assistant | Smt. Neha | Prog. Asstt. (Lab. Tech.) | B. Sc. (Ag) | 46,200/- (L-06) | 02-11-2012 | Permanent | OBC |
| 9. | Computer Programmer | Dr. Ved Prakash | Prog. Asstt. (Computer) | MCA, Ph.D. | 44,900/- (L-06) | 20-05-2013 | Permanent | OBC |
| 10. | Farm Manager | Sri Mukesh Kumar | Farm Manager | M.Sc. (Ag) (Ext.Edu.) | 46,200/- (L-06) | 30-10-2012 | Permanent | OBC |
| 11. | Accountant / Superintendent | Sri Prem Kumar Thakur | Assistant | MBA in Finance | 44,900/- (L-06) | 13-04-2013 | Permanent | OBC |
| 12. | Stenographer | Sri Patwardhan Kumar | Stenographer | MA | 32,300/- (L-04) | 04-07-2013 | Permanent | OBC |
| 13. | Driver | Sri Rohit Kumar | Driver | Matric | 26,800/- (L-03) | 22-05-2015 | Permanent | OBC |
| 14. | Driver | Sri Ravindra Yadav | Driver | Matric | 15203/-(Consolidated) | | Outsource | OBC |
| 15. | Supporting staff | Smt. Laxmi Devi | Supporting staff | Non-Matric | 12004/-(consolidated) | | (Outsource) | SC |
| 16. | Supporting staff | Sri Naulesh Kumar | Supporting staff | Matric | 12004/-(consolidated) | | (Outsource) | SC |

1.6. Total land with KVK (in ha):

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 1.2 |
| 2. | Under Demonstration Units | 0.3 |
| 3. | Under Crops | 5.0 |
| 4. | Orchard/Agro-forestry | 1.7 |
| 5. | Others with details | 1.8 |
| | Total | **10.0 ha** |

*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 | | | | | handed Over | | In use | ICAR |
| 2. | Farmers Hostel | | | | | handed over | | In use | ICAR |
| 3. | Staff Quarters (6) | | | | | | | | |
| 4. | Piggery unit | | | | | | | | |
| 5 | Fencing | | | | | Only two side (2200 ft) Approx | | In use | |
| 6 | Rain Water harvesting structure | | | | | | | | |
| 7 | Threshing floor | | | | | Handed Over | | In use | |
| 8 | Farm godown | | | | | Handed Over | | In use | RKVY |
| 9. | Dairy unit | | | | | Not handed over | | | |
| 10. | Poultry unit | | | | | | | | |
| 11. | Goatry unit | | | | | Complete | | In use | ICAR |
| 12. | Mushroom Lab | | | | | | | | |
| 13. | Mushroom production unit | | | | | | | | |
| 14. | Shade house | | | | | | | | |
| 15. | Soil test Lab | | | | | | | | |
| 16. | Others, Please Specify | | | | | | | | |
| 17. | Mali shade | | | | | Handed Over | | | NHM |
| 18. | Generator Room | | | | | Handed Over | | In use | RKVY |
| 19. | Sale Counter | | | | | | | In use | |

* 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 |
|---|---|---|---|---|
| Bolero LX 2WD7STR Non AC BS11 | 2006 | 458070.00 | - | Not Working/Condemned |
| Tractor DIJ MF1035 | 2006 | 386544.00 | 920.3 | Working |
| Tractor 65 HP ACE | | | 388.8 | Working |
| Bolero | 2020 | 800000.00 | 41410 | Working |
| Motor cycle (02 Nos.) 1. BR 02AA6793<br>2. BR 02AA6794 | 2016 | 120000.00 | 12324<br>13509 | Working |

C) Equipment & AV aids

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| a. Lab equipment | | | | |
| Steel Dram | 2007 | | Satisfactory | |
| Godrej Book selves & Almirah | 2007 | | Satisfactory | |
| Computer with accessories | 2007 | | Satisfactory | |
| Inverter | 2010 | | Satisfactory | |
| Index card reader | 2010 | | Satisfactory | |
| Honey box & Accessories | 2011 | | Satisfactory | |
| Punch sealer Machine | 2011 | | Satisfactory | |
| LCD Projector | 2011 | | Satisfactory | |
| Generator | 2011 | | Satisfactory | |
| Book self | 2011 | | Satisfactory | |
| Inverter | 2012 | | Satisfactory | |
| Exide Battery (2) | 2012 | 37500 | Satisfactory | |
| Computer with accessories | 2012 | 49145 | Satisfactory | |
| Godrej almirah 1,Table 4, Chair 10, Revolving 1, Rack 1 | 2013 | 98092 | Satisfactory | |
| Godrej almirah 9 | 2014 | | Satisfactory | |
| Photocopier Machine | 2014 | 75000 | Satisfactory | |
| Biometric based attendance machine | 2014 | 24750 | Satisfactory | |
| Fiber chair & Table | 2014 | | Satisfactory | |
| Microscope | 2014 | | Satisfactory | |
| Steel bed | 2014 | | Satisfactory | |
| Trunk steel | 2014 | | Satisfactory | |
| Vegetable Processing unit | 2014 | | Satisfactory | |
| Water Purifier Machine | 2014 | | Satisfactory | |
| Video Conference Materials | 2014 | | Satisfactory | |
| Mini Studio Room Materials | 2014 | | Satisfactory | |
| Motorcycle Hero Passion Pro (2) | 2015 | 120000 | Satisfactory | |
| Exide IT 500 Battery (2) | 2016 | 29000-5000=24000 | Satisfactory | |
| Ahuja PA Lectern SystemWSL2500R | 2016 | 38000 | Satisfactory | |
| Map My India Navigator LX140WS | 2016 | 6000 | Satisfactory | |
| Dell Desktop I5/4/1TB computer set (1) | 2016 | 49500 | Satisfactory | |
| Split AC Voltas 5Star with stabilizer (1) | 2016 | 43000 | Satisfactory | |
| Stablizer full copper 5KVA (2) | 2016 | 25000 | Satisfactory | |
| Godrej Kareena High back chair (6) | 2016 | 90717 | Satisfactory | |
| Godrej Insight Table 6'x3' (1) | 2016 | 10337 | Satisfactory | |
| Xerox Photocopier- cum –printer with cartridge, Trolly& stabilizer (1) | 2016 | 98,022 | Satisfactory | BAU, Sabour |
| Computer + Laptop (1+1) | 2016 | 82,583 | Satisfactory | BAU, Sabour |
| CCTV Camera (4) | 2016 | 21,000 | Satisfactory | BAU, Sabour |
| LED Flood Light (1) | 2016 | 6,500 | Satisfactory | BAU, Sabour |
| Projector with Projector Screen + wifi Dongle (1+1) | 2016 | 52,000 | Satisfactory | BAU, Sabour |
| Video Camera Handy cam (1) | 2016 | 82,871 | Satisfactory | BAU, Sabour |
| Sound System Ahuja (1) | 2016 | 30,165 | Satisfactory | BAU, Sabour |
| Water Cooler (Voltas 40/80) (1) | 2016 | 59,500 | Satisfactory | BAU, Sabour |
| Euro Aqua water purifier (1) | 2016 | | Satisfactory | BAU, Sabour |
| LED TV Panasonic TH-32 C200DX (1) | 2016 | 27,200 | Satisfactory | BAU, Sabour |
| Still Photographic Camera Cannon DSLR (1) | 2016 | 29,600 | Satisfactory | BAU, Sabour |
| External Hard Drive Lenovo Portable F309 1TB (1) | 2016 | 5,600 | Satisfactory | BAU, Sabour |
| Vacuum cleaner (Eureka forbes Trendy) (1) | 2016 | 9,950 | Satisfactory | BAU, Sabour |
| Fire Extinguisher Cylinder 4Kg (1) | 2016 | 9,649 | Satisfactory | BAU, Sabour |
| 25 KVA Eicher Jaycee/Diesel Generator Set (1) | 2016 | 3,94,133 | Satisfactory | BAU, Sabour |
| 215/75 R15 Tyre (1) | 2016 | 5,350 | Satisfactory | KVK, Gaya |
| Garmin Etrex 20 Handheld GPS (1) | 2017 | 14,451 | Satisfactory | KVK, Gaya |
| HP Printer Laserjet M1005 MFP (1) | 2017 | 14,700 | Satisfactory | KVK, Gaya |

| | | | | |
|---|---|---|---|---|
| MicrotekSinewave UPS-SEBZ 1600/24V V2 (1) | 2017 | 6,000 | Satisfactory | KVK, Gaya |
| MicrotekSinewave UPS-SEBZ 1100-V2 (1) | 2017 | 5,500 | Satisfactory | KVK, Gaya |
| HP Scanner 200 Flatbed (1) | 2017 | 4,200 | Satisfactory | KVK, Gaya |
| JIO Router Wifi (1) | 2017 | 2,100 | Satisfactory | KVK, Gaya |
| Exide Tubler Battery Invatall 1500 (1) | 2017 | 15,000 | Satisfactory | KVK, Gaya |
| Honey Well Usha Cooler (5) | 2017 | 61,000 | Satisfactory | KVK, Gaya |
| Sewing Machine(9) | 2017 | 49,900 | Satisfactory | KVK, Gaya |
| Battery XP-800 (1) | 2017 | 5300 | Satisfactory | KVK, Gaya |
| Exide Battery IT500(150Ah) (02) | 2017 | 24400 | Satisfactory | KVK, Gaya |
| Mantra NFS 100 Bio-metric Fingerprint USB (1) | 2017 | 5000 | Satisfactory | KVK, Gaya |
| Table Top (1) | 2017 | 5120 | Satisfactory | KVK, Gaya |
| Pen Stand (1) | 2017 | 832 | Satisfactory | KVK, Gaya |
| Calculator (Casio) (1) | 2017 | 470 | Satisfactory | KVK, Gaya |
| Helmet JADE 21171 (1) | 2017 | 980 | Satisfactory | KVK, Gaya |
| Hero Box 21171 (1) | 2017 | 780 | Satisfactory | KVK, Gaya |
| Wall Watch AO1877 (G) (1) | 2017 | 890 | Satisfactory | KVK, Gaya |
| Wall Watch AO1477 SS(G) (1) | 2017 | 551 | Satisfactory | KVK, Gaya |
| Soil Testing Kit (02) | 2018 | 109536 | Satisfactory | KVK, Gaya |
| Hitachi AC Model RSB318IBEA (02) | 2018 | 90000 | Satisfactory | KVK, Gaya |
| V.Guard Stabilizer Model VWR400 (02) | 2018 | 8000 | Satisfactory | KVK, Gaya |
| 4 Drawer Filing Cabinet (02) | 2018 | 37986 | Satisfactory | KVK, Gaya |
| Storewell Minor P. Cain (01) | 2018 | 16240 | Satisfactory | KVK, Gaya |
| b. Farm machinery | | | | |
| Happy Seeder | 2019 | - | Satisfactory | Bihar Govt. |
| c. AV Aids | | | | |
| | | | | |
| | | | | |

D) Farm implements

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| Disc Harrow | 2006 | | Working | |
| MB plough | 2006 | | Working | |
| Hydraulics trailer | 2006 | | Working | |
| Tiller/cultivator | 2006 | | Working | |
| Cage wheel | 2006 | | Working | |
| Leveler | 2006 | | Working | |
| Zero Till Machine | 2011 | | Working | |
| Pump Set | 2008 | | Stolen FIR Reported | |
| Conoweeder | 2009 | | Working | |
| Tube well 5H.P Kiloshker | 2008 | | Working | |
| weight Machine | 2011 | | Working | |
| Zero tillage | 2011 | | Working | |
| Rotavator | 2011 | | Working | |
| Reaper | 2011 | | Working | |
| Seed processing unit | 2011 | | Working | |
| Lazer land leveler | 2012 | 376000 | Working | |
| Power Thresher | 2014 | | Working | |
| Rotavator | 2014 | | Working | |
| Power Reaper | 2014 | | Working | |
| Gator Sprayer | 2017 | 3800 | Working | |
| Iron Jharni 152 kg | 2017 | 11400 | Working | |
| Iron Pankhi Stand 16 kg | 2017 | 1200 | Working | |
| Multicrop seeder | 2021 | | Working | Govt. of Bihar |
| Raised bed planter | 2021 | | Working | Govt. of Bihar |
| Boom sprayer | 2021 | | Working | Govt. of Bihar |
| Happy seeder | 2021 | | Working | Govt. of Bihar |
| Paddy strawbeller | 2021 | | Working | Govt. of Bihar |
| Drum seeder | 2022 | | Working | Govt. of Bihar |

## 1.8. Details SAC meeting* conducted in the year

| Sl. No. | Date | Number of Participants | Salient Recommendations of 12th SAC meeting | Action taken | If not conducted, state reason |
|---|---|---|---|---|---|
| 1. | 16.10.2020 | 63 | 1. Action progress report should be sent to the members of the Scientific Advisory Committee and the number of beneficiaries should be given in the compliance report. | Action progress report has been sent to the members of the Scientific Advisory Committee by the Center's Memorandum No. 38/KVK, Manpur, Gaya dated: 02/08/2021 and the number of beneficiaries has been given in the compliance report. | |
| | | | 2. The demonstration of food crops should not be done from the amount of ICAR but from the amount of other project/resource and the perception should be done on other crops/components from FLD head. | In addition to the demonstration of food crops, demonstration of fodder was done in the field of 20 farmers, 130 farmers on mushroom and 50 farmers on bio-fertilizers. Apart from this, demonstration of moong in the field of 25 farmers and groundnut in 01hectare area has also been done. | |
| | | | 3. Service of experts of other Krishi Vigyan Kendras should be taken to organize programs according to the thrust area. | Suggestions are being given to the farmers by Dr. Ratan Kumar and Dr. Hemant Kumar for horticultural crops. | |
| | | | 4. On-farm trial and demonstration work should be done based on the technology released by the university. | On-farm trial and demonstration work is being done based on the technology issued by the university, in which the technology issued by the university was tested in an area of 26.4 hectares on the farm of 83 farmers. | |
| | | | 5. The on-farm trial based on soil health card of Extension Education should be changed to a new one. | Approval was received to increase the number of samples in OFT training based on soil health card of extension education. Hence the Number of Sample has been increased from 30 to 90. | |
| | | | 6. Other farmers and departmental officers should be given site visits in Climate Resilient Agriculture program project. | Under Climate Resilient Agriculture Program, 600 farmers of 24 blocks were taken on tour. Apart from this, 20 farmers visited Banka and 50 farmers Kaimur and 100 farmers visited Krishi Vigyan Kendra, Aurangabad. District Agriculture Officer, Assistant Director Horticulture, Project Director, ATMA, Assistant Director Soil Testing also visited the KVK. | |
| | | | 7. The impact assessment of the schemes of the Center should be done by an expert in Extension Education. | In the year 2020-21, interviews are being conducted for the benefited farmers by preparing research interview schedule to evaluate the effect of Biotech Kisan Hub scheme edited at the center. | |
| | | | 8. This year an F. P. O. (Farmer Producer Organization) should be formed by the experts of Extension Education. | An F.P.O. by an expert in extension education in coordination with the District Development Manager, NABARD is being made which is working on mushroom production in Manpur block. | |
| | | | 9. Maximum women farmers should be included in the training. | In the year 2020-21, 1245 women farmers were involved in various trainings. | |
| | | | 10. Maximum women farmers of JEEVIKA should be included in the training. | In addition to training, 23 women of JEEVIKA Manpur and Fatehpur were selected for demonstration of cabbage and for mushroom demonstration they were provided training and mushroom kits. | |

| | | | | | |
|---|---|---|---|---|---|
| | | | 11. Training should be organized for piggery rearing. | Due to the pandemic of Covid-19, this year training for piggery could not be organized. But 04 training was conducted on goat rearing. This year 02 trainings are planned to be conducted on pig farming. | |
| 2. | 06.08.2021 | 62 | Salient Recommendations of 13th SAC meeting | | |
| | | | 1. Proceedings should be made available to all the members of the Scientific Advisory Committee (SAC) who have attended the meeting. In this, the suggestion of the Headquarters and the members should be mentioned, which has been confirmed by the Headquarters. | | |
| | | | 2. In FLD, the demonstration of moong crop should not be done. The demonstration of cereals should not be done from the amount of ICAR but from the amount of other project/resource, when there is no option then spend from the amount of ICAR. | | |
| | | | 3. Reporting of demonstration should be done by taking it out of the format of Annual Progress Report, which should have demonstration, area, number, achievement and the feedback of farmers which can be understood by the common person. | | |
| | | | 4. No Varietal OFT should be done in Krishi Vigyan Kendra. | | |
| | | | 5. Demonstration of Biofortified variety should be made on the farm of farmers. | | |
| | | | 6. The main achievements of Krishi Vigyan Kendra must be included in the report. | | |
| | | | 7. The help of Dr. Jyoti Sinha, SMS (Home Science), Krishi Vigyan Kendra, Nalanda can be taken for NARI project. | | |
| | | | 8. The Kisan Chaupal calendar should be sent to the institutions like ATMA, Jeevika, PRAN etc. and they should also be included. | | |
| | | | 9. The technology of the University should be reached to the farmers. | | |
| | | | 10. It was suggested by the District Development Manager to do Technology Orientation based training and the training related to innovation should also be made aware to the NABARD office, which can be funded by NABARD. | | |

** Salient recommendation of SAC in bullet form*

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

| | | |
|---|---|---|
| 1. | Director, ICAR, ATARI Zone-IV, Patna | Chairman |
| 2. | ADEE, BAU, Sabour, Bhagalpur | |
| 3. | Dr. S. B. Singh, Regional Director, ARI, Patna | |
| 4. | Dr. Rajeev Singh, Senior Scientist & Head, KVK, Manpur, Gaya | |
| 5. | Assistant Director, Chemistry, Gaya | |
| 6. | Assistant Director, Horticulture, Gaya | |
| 7. | Assistant Director, Plant protection, Gaya | |
| 8. | Sri Navin Kumar Sharma, BAO, Manpur, Gaya | |
| 9. | Dr. Sunil Kumar, BAHO, Manpur, Gaya | |
| 10. | Sri Dilip Kumar, Zonal Manager, IFFCO, Gaya | |
| 11. | Sri Chandan Kumar, IFFCO, Gaya | |
| 12. | Sri Uday Kumar, DDM, NABARD, Gaya | |
| 13. | Sri Ravindra Kumar, PD, ATMA, Gaya | |
| 14. | Sri Ashwini Kumar, BPM, JEEVIKA, Gaya | |
| 15. | Pramod Gorain, PRAN Gaya | |
| 16. | Sri Durgesh Singh Bhardwaj, ATM, ATMA, Gaya | |
| 17. | Sri Basant Prasad, Progressive Farmer, Takeya, Gaya | |
| 18. | Sri Vinod Kumar Singh, Progressive Farmer, Nawada, Sherghati, Gaya | |
| 19. | Sri Chandra Bhushan Singh, Progressive Farmer, Mahmadpur, Tekari, Gaya | SAC Member |
| 20. | Sri Ranjeet Kumar Singh, Progressive Farmer, Nawada, Sherghati, Gaya | |
| 21. | Sri Birendra Singh, Progressive Farmer, Tetariya, Gaya | |
| 22. | Sri Surendra Kumar, Progressive Farmer, Barachatti, Gaya | |
| 23. | Sri Shyam Kumar Mehta, Progressive Farmer, Manpur, Gaya | |
| 24. | Sri Ashish Kumar Singh, Progressive Farmer, Tekari, Gaya | SAC Member |
| 25. | Sri Rajkumar Singh, Progressive Farmer, Rasalpur, Gaya | |
| 26. | Sri Brajendra Kumar, Kisan Salahkar, Rasalpur, Nagar, Gaya | |
| 27. | Smt. Sunita Devi, Progressive Farm women, Bhore, Gaya | SAC Member |
| 28. | Smt. Tannu Kumari, Progressive Farmer, Rasalpur, Gaya | |
| 29. | Sri Kunal Kumar, Progressive Farmer, Manpur, Gaya | |
| 30. | Sri Surendra Prasad, Progressive Farmer, Rasalpur, Gaya | |
| 31. | Sri Abhay Narayan, Progressive Farmer, Rasalpur, Nagar, Gaya | |
| 32. | Sri Kunal Kumar Kishor, Progressive Farmer, Barachatti, Gaya | |
| 33. | Sri Ajay Singh, Dainik Bhaskar, Gaya | |
| 34. | Sri Shambhu Singh, Progressive Farmer, Gohra, Bela, Gaya | |
| 35. | Sri Deepak Kumar, Progressive Farmer, Makhdumpur, Tankuppa, Gaya | |
| 36. | Sri Sanjay Kumar, Progressive Farmer, Police Line, Gaya | |
| 37. | Smt. Anju Devi, Progressive Farmer, Mastalipur, Manpur, Gaya | |
| 38. | Smt. Kunti Devi, Progressive Farmer, Mastalipur, Manpur, Gaya | |
| 39. | Sri Rohit Kumar, Progressive Farmer, Makhdumpur, Tankuppa, Gaya | |
| 40. | Sri Santosh Yadav, Progressive Farmer, Sondhi, Manpur, Gaya | |
| 41. | Sri Sonu Kumar, Progressive Farmer, Dihuri, Atri, Gaya | |
| 42. | Sri Ravi Kumar, Progressive Farmer, Sondhi, Manpur, Gaya | |
| 43. | Sri Manish Kumar Yadav, Progressive Farmer, Aandhar, Tankuppa, Gaya | |
| 44. | Sri Ramswaroop Yadav, Progressive Farmer, Aandhar, Tankuppa, Gaya | |
| 45. | Sri Ganga Ravidas, Progressive Farmer, Makhdumpur, Tankuppa, Gaya | |
| 46. | Dr. Ashok Kumar, SMS (Ext. Edu.), KVK, Gaya | |
| 47. | Mr. Devendra Mandal, SMS (Agronomy), KVK, Gaya | |
| 48. | Dr. Anil Kumar Ravi, SMS (Ani. Sci.), KVK, Gaya | |
| 49. | Mr. Sunil Kumar Choudhary, SMS (Ag. Ext.), KVK, Amas, Gaya | |

50. Mr. Praveen Kumar, SMS (PB & G), KVK, Amas, Gaya
51. Mohd. Zakir Hussain, SMS(Agromet), KVK, Gaya
52. Sri Mukesh Kumar, Farm Manager, KVK, Gaya
53. Smt. Neha, Prog. Asstt. (Lab. Tech.), KVK, Gaya
54. Sri Prem Kumar Thakur, Assistant, KVK, Gaya
55. Dr. Ved Prakash, Prog. Asstt. (Computer), KVK, Gaya
56. Sri Patwardhan Kumar, Stenographer, KVK, Gaya
57. Dr. Avinash Kumar, RA(CRAP), KVK, Manpur, Gaya
58. Sri Sonu Kumar Ray, SRF(CRAP), KVK, Manpur, Gaya
59. Sri Rohit Kumar, Driver, KVK, Gaya
60. Sri Omprakash Kumar, Agromet Observer, KVK, Gaya
61. Sri Manish Kumar, KVK, Amas, Gaya
62. Sri Rajnikant Kumar, KVK, Amas, Gaya

    and all other progressive farmers.

## 2.a. District level data on agriculture, livestock and farming situation (2021)

| Sl. No. | Items | Information |
|---|---|---|
| 1 | Major Farming system/enterprise | |
| 2 | Agro-climatic Zone | |
| 3 | Agro ecological situation | |
| 4 | Soil type | |
| 5 | Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | |
| 6 | Mean yearly temperature, rainfall, humidity of the district | |
| 7 | Production of major livestock products like milk, egg, meat etc. | |

Note: Please give recent data only

### 2.a. 1 Major farming systems/enterprises (based on the analysis made by the KVK)

| S. N. | Farming system/enterprise |
|---|---|
| 1. | Paddy - Wheat – Moong |
| 2. | Paddy – Lentil – Fallow |
| 3. | Paddy – Rai – Moong |
| 4. | Paddy – Sugarcane |
| 5. | Paddy – Potato - Vegetable |
| 6. | Maize – Potato – Vegetable |
| 7. | Dairy, Poultry, Bee keeping and Fishery are important enterprises adopted by selective farmers. |

### 2.a. 2 Description of Agro-climatic Zone (based on soil and topography)

| S. N. | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1. | Zone – IIIB | Climate is subtropical having average annual rainfall 1200mm. June is the hottest month when temperature goes up to $44^0$C while December is the coldest month when temperature goes down to $4^0$C. Average Relative Humidity is 66% |

### 2.a. 3 Description of major agro ecological situations (based on soil and topography)

| S. N. | Agro ecological situation | Characteristics |
|---|---|---|
| 1. | Irrigated Plain (Sandy-loam to loam soil) | The geographical area of the district is 493774 ha. Out of which Cultivable land is 198123 ha, comprising upland (49765 ha) medium land (110874ha) and low land (37484 ha). Major crop is paddy followed by wheat & vegetables. Among oil seeds & pulses rai, linseed, lentil, gram and red gram are important crops. |
| 2. | Rainfed Plain (Sandy Loam, Light to heavy texture Soil) | |
| 3. | Hilly Upland (Rainfed, Undulating topography) | |

### 2.a. 4 Soil type

| S. N. | Soil type | Characteristics |
|---|---|---|
| 1. | Sandy Loam | Admixture of sand & Clay, predominantly sandy, found alongside the river beds. |
| 2. | Loamy soil | Found near the hills and formed by rains washings from higher area. |
| 3. | Sandy soil | Locally known as balui, found near the bank of the river. |
| 4. | Kewal Soil (Black) | It is a mixture of clay and loam and is very productive acidic in nature. |
| 5. | Foot hill Balthar Soil (Red) | It is in between the plain and dissected plateau. It is acidic in nature. |

### 2.a.5 Area, Production and Productivity of major crops cultivated in the district

| S. N. | Crop | Area (ha) | Production (Kg) | Productivity (Kg /ha) |
|---|---|---|---|---|
| **Kharif** | | | | |
| 1. | Paddy | 190955 | 640153 | 3352 |
| 2. | Maize | 6763 | 6270 | 927 |
| 3. | Marua | 308 | 233 | 756 |
| 4. | Arhar | 4386 | 3874 | 883 |
| 5. | Urad | 1438 | 803 | 558 |
| 6. | Moong | 3223 | 1713 | 531 |
| 7. | Kulthi | 78 | 44 | 564 |
| 8. | Groundnut | 892 | 629 | 705 |
| 9. | Til | 956 | 529 | 55.3 |
| 10. | Castor | 89 | 43 | 483 |
| 11. | Sunflower | 86 | 50 | 581 |
| **Rabi** | | | | |
| 1. | Wheat | 82729 | 142956 | 1728 |
| 2. | Maize | 2418 | 4531 | 1874 |
| 3. | Barley | 2328 | 1136 | 488 |
| 4. | Gram | 34823 | 17237 | 495 |
| 5. | Lentil | 20686 | 6247 | 302 |
| 6. | Pea | 3045 | 1248 | 410 |
| 7. | Other Pulses | | | |
| 8. | Linseed | 7071 | 3924 | 555 |
| 9. | Rai/Sarson | 12942 | 9344 | 722 |
| 10. | Sunflower | 161 | 94 | 582 |

### 2.a.6 Weather data

| Month | Rainfall (mm) | Temperature $^0$ C | | Relative Humidity (%) |
|---|---|---|---|---|
| | | Maximum | Minimum | |
| Jan. 21 | 0.0 | 20.2 | 6.0 | 82.3 |
| Feb. 21 | 0.0 | 25.6 | 11.8 | 68.0 |
| Mar. 21 | 0.0 | 29.3 | 17.6 | 75.0 |
| Apr. 21 | 0.0 | 36.3 | 21.8 | 45.2 |
| May 21 | 188.3 | 35.0 | 23.1 | 51.0 |
| June 21 | 313.7 | 34.5 | 25.9 | 82.6 |
| July 21 | 218.7 | 32.9 | 26.0 | 86.1 |
| Aug. 21 | 262.0 | 33.5 | 26.2 | 84.4 |
| Sep. 21 | 129.1 | 33.6 | 25.4 | 83.5 |
| Oct. 21 | 103.4 | 39.0 | 23.4 | 78.8 |
| Nov. 21 | 0.0 | 29.6 | 15.4 | 75.2 |
| Dec. 21 | 16.8 | 23.7 | 8.9 | 85.6 |

### 2.a.7 Production and productivity of livestock, poultry, fisheries etc. in the district

| Category | Population | Production | Productivity |
|---|---|---|---|
| **Cattle** | | | |
| *Crossbred* | 10027 | | |
| *Indigenous* | 293436 | | |
| **Buffalo** | 254729 | | |
| **Sheep** | 18145 | | |
| Crossbred | | | |
| *Indigenous* | | | |
| **Goats** | 445546 | | |
| **Pigs** | 122914 | | |
| *Crossbred* | | | |
| *Indigenous* | | | |
| **Rabbits** | | | |
| **Poultry** | 892833 | | |
| Hen | | | |

| | | | |
|---|---|---|---|
| *Desi* | | | |
| *Improved* | | | |
| Duck | | | |
| Turkey and others | | | |
| **Category** | **Area** | **Production** | **Productivity** |
| Fish | | | |
| Marine | | | |
| Inland | | | |
| Prawn | | | |
| Scampi | | | |
| Shrimp | | | |

2.b. Details of operational area / villages (2021)

| Sl. No. | Name of Taluk | Name of the block | Name of the villages | Major crops & Enterprises | Major problems identified (crop-wise) | Identified Thrust Areas |
|---|---|---|---|---|---|---|
| 1. | Gaya | Nagar | Rasalpur, Bishunpur, Kandi, Madanbigha | Paddy, Wheat, Vegetable, flower, Goatry, poultry | Use of non-recommended Pesticide, Use of traditional varieties | High incidence of insect pest |
| 2. | Gaya | Manpur | Sondhi, Khanzahanpur, Rasalpur, Rupaspur, Gangti, Chiraila | Paddy, Wheat, Potato, Vegetables, Mushroom, Poultry, Dairy | -Use of non-recommended Pesticide, Use of traditional varieties | -do- |
| 3. | Gaya | Neemchak Bathani | Naili, Dhanmahua | Lentil, Paddy, Wheat | Lack of irrigation facility, Use of non-recommended Pesticide, Use of traditional varieties | |
| 4. | Gaya | Atri | Bairka, Bara | Wheat, Lentil, Paddy | Non-recommended Pesticide | |
| 5. | Gaya | Mohra | Bela | Wheat, Lentil, Paddy | Non-recommended fertilizer | |
| 6. | Gaya | Paraiya | Rajoi Rampur, Pariaya Khurd | Chickpea | Non-recommended Pesticide | |
| 7. | Gaya | Barachatti | Bela | Pigeonpea | Low yield | |
| 8. | Gaya | Sherghati | Nawada | Greengram | Non-recommended Pesticide | |
| 9. | Gaya | Konch | Mundera, Ahiyapur | Mustard, Fieldpea | Non-recommended Pesticide | |
| 10. | Gaya | Tankuppa | Bara, ManMadho | Pigeonpea, Wheat | Non-recommended fertilizer | |
| 11. | Gaya | Belaganj | Beladih | Pigeonpea | Low yield | |
| 12. | Gaya | Wazirganj | Kajha, Mahuet, Gariya | Mustard, Wheat | Non-recommended fertilizer | |
| 13. | Gaya | Imamganj | Pakriguriya | Mustard | Low yield | |
| 14. | Gaya | Fatehpur | Naudiha | Lentil | Non-recommended Pesticide | |
| 15. | Gaya | Tekari | Mahmadpur | Chickpea, lentil, wheat | Non-recommended fertilizer | |

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2021) for its development and action plan

| Name of village | Block | Action taken for development |
|---|---|---|
| Rasalpur (Agronomy) | Nagar | FLD, OFT, Training, CFLD, Field days, Chaupal |
| Bishunpur (Extension Education) | Nagar | FLD, OFT, Training, CFLD, Field days, Chaupal |
| Sondhi (Agronomy) | Manpur | FLD, OFT, Training, CFLD, Field days, Chaupal |
| Kandi (Animal Science) | Nagar | FLD, OFT, Training, CFLD, Field days, Chaupal |

2.d. Priority thrust areas

| S. N. | Thrust area |
|---|---|
| 1. | Introduction and popularization of improved varieties of cereals, pulses and oil seed crops. |
| 2. | Seed production of cereals, oil seed & horticultural crops. |
| 3. | To popularize improved cultivation techniques of different horticultural crops. |
| 4. | Integrated nutrient management (INM) and pest management (IPM) |
| 5. | Income and employment generation through Goatry, poultry, vermi-compost, dairy, beekeeping, mushroom cultivation & preservation of fruits & vegetable. |
| 6. | Improvement of milch cattle through hybridization and proper care. |

## 3. TECHNICAL ACHIEVEMENTS

### 3.A. Summary details of target and achievement of mandatory activities by KVK during the year 2021

| OFT | | | | | | | | | | | | FLD | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of technologies tested: | | | | | | | | | | | | No. of technologies demonstrated: | | | | | | | | | | |
| 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 | | |
| | | | M | F | M | F | M | F | M | F | T | | | | M | F | M | F | M | F | M | F | T |
| **8** | **8** | **145** | **28** | **12** | **0** | **0** | **156** | **22** | **184** | **34** | **218** | **8** | **8** | **198** | **40** | **24** | **0** | **0** | **120** | **29** | **160** | **53** | **213** |

| 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 | |
| | | | M | F | M | F | M | F | M | F | T | | | | M | F | M | F | M | F | M | F | T |
| **82** | **121** | **1810** | **642** | **1060** | **0** | **0** | **1192** | **228** | **1834** | **1288** | **3122** | **10000** | **12360** | **15000** | **5966** | **1534** | **0** | **0** | **9956** | **3442** | **15922** | **4976** | **20898** |

| Impact of capacity building | | | | | | | | | | | Impact of Extension activities | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of Participants trained | | Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | | Number of Participants attended | | Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | |
| Target | Achievement | SC | | ST | | Others | | Total | | | Target | Achievement | SC | | ST | | Others | | Total | | |
| | | M | F | M | F | M | F | M | F | T | | | M | F | M | F | M | F | M | F | T |
| **2000** | **3122** | **28** | **3** | **0** | **0** | **572** | **10** | **600** | **13** | **613** | **10000** | **12360** | **35** | **15** | **0** | **0** | **605** | **21** | **640** | **36** | **676** |

| Seed production (q) | | Planting material (in Lakh) | |
|---|---|---|---|
| Target | Achievement | Target | Achievement |
| **250.0** | **276.16** | **0.008** | **0.008938** |

| Livestock strains and fish fingerlings produced (in lakh)* | | Soil, water, plant, manures samples tested (in lakh) | |
|---|---|---|---|
| Target | Achievement | Target | Achievement |
| 10 | 11 | 50 | 52 |

* Give no. only in case of fish fingerlings

| Publication by KVKs | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Number | No. circulated | No. of Research papers in NAAS rated Journals | Highest NAAS rating of any publication | Average NAAS rating of the publications | Details of awarded publication, if any | Details of Award given to the publication |
| Research paper | 1 | - | 5.38 | | | | |
| Seminar/conference/ symposia papers | | | | | | | |
| Books | 2 | - | | | | | |
| Bulletins | 2 | 1500 | | | | | |
| News letter | 1 | 1000 | | | | | |
| Popular Articles | 5 | 40000 | | | | | |
| Book Chapter | | | | | | | |
| Extension Pamphlets/ literature | | | | | | | |
| Technical reports | 3 | 25 | | | | | |
| Electronic Publication (CD/DVD etc) | | | | | | | |
| TOTAL | 14 | 42525 | | | | | |

3.1.1 Achievements on technologies assessed and refined

**OFT- 1 (Agronomy) (2020-21)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of different cropping system in south Bihar |
| 2. | Problem diagnosed | Low profitability of Rice-Wheat cropping system |
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | $TO_1$ - Farmers Practice (FP): Rice-Wheat-Fallow<br>$TO_2$ –Rice-Wheat-Greengram<br>$TO_3$ –Rice-Mustard-Greengram |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-RCER, Patna |
| 5. | Production system and thematic area | Cropping system |
| 6. | Performance of the Technology with performance indicators | Yield attributes, Net return, B:C ratio |
| 7. | Final recommendation for micro level situation | Maximum gross income (Rs 209522/ha), net return (Rs 146072/ha) and B:C ratio were recorded with rice-mustard-greengram cropping system fallowed by rice-wheat-moong cropping system over rice- wheat cropping system. |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training and kisan gosthi |

# *Thematic area:* Crop system

Problem definition: Low profitability of Rice-Wheat cropping system

Technology assessed:

$TO_1$ – Rice-Wheat-Fallow
$TO_2$ –Rice-Wheat-Greengram
$TO_3$ –Rice-Mustard-Greengram

**Table:**

| Treatment | Replication | Yield (q/ha) | | | |
|---|---|---|---|---|---|
| | | Rice | Wheat | Mustard | Greengram |
| $TO_1$ - Farmer Practice (Rice-wheat) | 7 | 43.65 | 25.89 | - | - |
| $TO_2$ –Rice- Wheat- Greengram | | 46.85 | 33.69 | - | 7.56 |
| $TO_3$ –Rice-Mustard-Greengram | | 47.83 | - | 13.6 | 12.8 |

| Treatment | Replication | Cost of cultivation | | | | | Gross Income (Rs) | | | | | Net Income (Rs) | B:C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rice | Wheat | Lentil | Moong | Total | Rice | Wheat | Lentil | Moong | Total | | |
| $TO_1$ | 7 | 33360 | 29600 | - | - | 62960 | 82935 | 46602 | - | - | 129537 | 66577 | 2.07 |
| $TO_2$ | | 33360 | 29600 | - | 17300 | 80260 | 89015 | 60642 | - | 41583 | 191240 | 110980 | 2.38 |
| $TO_3$ | | 33360 | - | 16250 | 17300 | 66910 | 90877 | - | 81600 | 70400 | 242877 | 175967 | 3.63 |

**Results:** Maximum gross income (Rs.242877/ha), net return (Rs.175967/ha) and B:C ratio (3.63) were recorded with rice-mustard-greengram cropping system fallowed by rice-wheat-greengram cropping system over rice- wheat cropping system.

**OFT- 2 (Agronomy) (2020-21)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assess the foliar application of potassium nitrate in late sown wheat for mitigation of terminal heat stress |
| 2. | Problem diagnosed | Low yield in late sown wheat due to terminal heat stress |
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | Farmers Practice (FP): General cultivation of late sown wheat (during 2nd fortnight of Dec.) without any foliar spray<br>Technology option-I (TO-I): Foliar spray 0.5% $KNO_3$ at booting and 0.5% $KNO_3$ at anthesis stage<br>Technology option-II (TO-II): Foliar spray 1.0 % $KNO_3$ at anthesis stage |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BAU, Sabour |
| 5. | Production system and thematic area | Rice-Wheat |
| 6. | Performance of the Technology with performance indicators | 1. No. of grains/ earhead<br>2. Test weight (gram)<br>3. Grain yield Q/ha<br>4. Economics |
| 7. | Final recommendation for micro level situation | Foliar application of $KNO_3$solution helps in mitigating terminal heat stress |
| 8. | Constraints identified and feedback for research | KNO3 is not easily available in market. Most of the dealer has no license to sell this fertilizer. Dose and frequency if feasible should increase. |
| 9. | Process of farmers participation and their reaction | Farmers are convinced with the effect of application of this fertilizer as foliar spray in wheat crop which can protect from heat stress. |

## *Thematic area: ICM*

Problem definition: Low yield in late sown wheat due to terminal heat stress

Technology assessed:

FP – General cultivation of late sown wheat (during 2nd fortnight of Dec.) without any foliar spray
$TO_1$ - Foliar spray 0.5% $KNO_3$ at booting and 0.5% $KNO_3$ at anthesis stage
$TO_2$ – Foliar spray 1.0 % $KNO_3$ at anthesis stage

**Table:**

| Technology option | No. of trials | Yield component | | | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of effective tillers/$m^2$ | Grains per earhead | Test wt. (1000 grain wt.) | | | | | |
| FP | 06 | 223.00 | 44.20 | 36.10 | 30.70 | 27670 | 55120 | 27450 | 1.99 |
| TO I | | 262.50 | 49.40 | 38.90 | 34.10 | 28890 | 61560 | 32670 | 2.13 |
| TO II | | 244.40 | 46.10 | 38.10 | 32.80 | 28970 | 58780 | 29970 | 2.04 |

**Results:** Under different technological option in late sown wheat, results revealed that foliar application of ($KNO_3$) potassium nitrate solution @ 0.5% at two growth stages of crop i.e., booting and anthesis ($TO_1$) recorded higher yield (34.10 q/ha), net return Rs. 32670/ha and B:C ratio 2.13 closely followed by $TO_2$ (1% $KNO_3$ at anthesis stage only)

**OFT- 3 (Agronomy) (2020-21)**

| | | |
|---|---|---|
| 1. | Title of On Farm Trial | To access the water-soluble fertilizer NPK (18:18:18) for increasing productivity of lentil under rainfed condition of South Bihar. |
| 2. | Thematic Area | Integrated crop management |
| 3. | Details of Technologies selected for Assessment | Farmer Practice - (Use of 20:40:0Kg NPK/ha & No use of WSF)<br>$TO_1$ – Basal application of 20:40:0kgNPK/ha +one spray of WSF NPK (18:18:18/ha) at 40DAS (1% NPK solution spray at 40DAS)<br>$TO_2$ – Basal application of 20:40:0kgNPK/ha +Two split spray of WSF NPK (18:18:18/ha) at 40&60DAS (1% NPK solution spray with equal splitting at 40 & 60 DAS) |
| 4. | Source of Technology | NDUA&T, Ayodhya |
| 5. | Performance Indicator | Yield attributes, Yield, Economics |
| 6. | Replication | 5 |
| 7. | Production system and thematic area | Rice-lentil Production System & Integrated crop management |
| 8. | Constraints identified | |
| 9. | Process of Farmer Participation | Training & Kisan gosthi |

## *Thematic area:* ICM

Problem definition:

Technology assessed:

TO-I: Farmer Practice - (Use of 20:40:0Kg NPK/ha & No use of WSF)
TO-II: Basal application of 20:40:0kgNPK/ha +one spray of WSF NPK (18:18:18/ha) at 40DAS (1% NPK solution spray at 40DAS)
TO-III: Basal application of 20:40:0kgNPK/ha +Two split spray of WSF NPK(18:18:18/ha) at 40&60DAS (1% NPK solution spray with equal splitting at 40 & 60 DAS)

**Table:** Effect of water-soluble fertilizer NPK (18:18:18) for increasing yield and economics of lentil

| Technology option | No. of trials | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---|---|---|---|---|---|---|
| FP | 5 | 9.3 | 15500 | 41850 | 26350 | 2.70 |
| $TO_1$ | | 13.25 | 16200 | 59625 | 43425 | 3.68 |
| $TO_2$ | | 15.52 | 16500 | 69840 | 53340 | 4.23 |

**Result:** Maximum grain yield 15.52q/ha was recorded with $TO_2$ Basal application of 20:40:0kgNPK/ha +Two split spray of WSF NPK (18:18:18/ha) at 40 & 60 DAS (1% NPK solution spray with equal splitting at 40 & 60 DAS). Net return (Rs. 53340/ha) and B:C ratio (4.23) were also recorded maximum with $TO_2$ treatment.

**OFT- 4 (Extension Education) (2020-21)**

| | | |
|---|---|---|
| 1 | **Title** | Assessment on awareness and perception of farmers about Soil Health Card in paddy |
| 2 | **Problem diagnosed** | Only few farmers are aware about importance and benefits of Soil Health Card |
| 3 | **Technological option** | Farmers Practice - Farmers having no Soil Health Card not applying recommended dose of fertilizer.<br>Option I – Recommendation of fertilizer application through training/ group meeting.<br>Option II - Recommendation of fertilizer application through Soil Health Card. |
| 4 | **Source of Technology** | BAU, Ranchi, Jharkhand |
| 5 | **Replication** | 30 |
| 6 | **Production system and thematic area:** | Paddy-Wheat-Green gram and Capacity building |
| 7 | **Performance of the technology with performance indicators** | i. Level of knowledge (%)<br>ii. Level of adoption (%)<br>iii. Yield (qt./ha)<br>iv. BCR |
| 8 | **Constraints identified** | Low reliability on SHC and Difficulty in calculation of fertilizer dose, |
| 9 | **Process of Farmer Participation** | Training, Group discussion and positive response of farmers. |

## *Thematic area:* Capacity building

Problem definition: Only few farmers are aware about importance and benefits of Soil Health Card

Technology assessed:

Farmers Practice - Farmers having no Soil Health Card not applying recommended dose of fertilizer.
TO-I: Recommendation of fertilizer application through training/ group meeting.
TO-II: Recommendation of fertilizer application through Soil Health Card.

Table:

| Tech. Option | No. of trial | Level of knowledge (%) | Level of adoption (%) | Yield (qt./ha) | Cost of cultivation (Rs/ha) | Gross Return (Rs/ha) | Net Return (Rs/ha) | BC Ratio |
|---|---|---|---|---|---|---|---|---|
| Farmers Practice - Farmers having no Soil Health Card and not applying recommended dose of fertilizers. | 30 | 23 | 10 | 29.29 | 29000 | 38077 | 9077 | 1.31 |
| Option I – Recommendation of fertilizer application through training/ group meeting. | | 43 | 30 | 37.25 | 31200 | 48425 | 17225 | 1.55 |
| Option II - Recommendation of fertilizer application through Soil Health Card. | | 51 | 41 | 43.16 | 32640 | 56108 | 23468 | 1.72 |

Result: The data in table reveals that Tech. option-II i.e. application of fertilizer as per recommendation through SHC is more effective in increasing level of knowledge (51%), adoption (41%) with highest B:C Ratio of 1.72 than recommendation of fertilizer given through training/ group discussion. Hence, more and more farmers should be motivated to have SHC.

**OFT- 5 (Veterinary) (2020-21)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle |
| 2. | Problem diagnosed | Postpartum infertility in cattle |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day<br>TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days<br>TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BVC, Patna |
| 5. | Production system and thematic area | Semi-intensive & Disease management |
| 6. | Performance of the Technology with performance indicators | No. of animal came in heat, No. of animal pregnant, |
| 7. | Final recommendation for micro level situation | Technology option II is more beneficial as compared to Farmer Practice and TO-I, in terms of animal came in heat and got pregnant |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & OFT |

## *Thematic area:*

Problem definition: Postpartum infertility in cattle

Technology assessed:

Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day
TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days
TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI

Table:

| Technological option | Replication | No. of animal came in heat | No. of animal pregnant |
|---|---|---|---|
| Farmer Practice (FP) | 10 | 4 | 2 |
| TO-I | | 8 | 5 |
| TO-II | | 8 | 7 |

Results: The table reveals that, technology option II i.e. use of Dewormer + Mineral Mixture @ 50 gm/day, Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days, GnRH Inj. @ 5 ml at the time of AI is more beneficial as compared to Farmer Practice and TO-I, in terms of animal came in heat and got pregnant.

**OFT- 6 (Veterinary) (2020-21)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of different preventive method of subclinical mastitis control in cattle. |
| 2. | Problem diagnosed | Reoccurring of sub clinical mastitis in cattle |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmers Practice (FP): Use of water to clean teat<br>Technology option-I (TO-I): Use of teat dip (iodine)<br>Technology option-II (TO-II): Use of antioxidant & trace mineral, vitamin E and selenium |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | Postgraduate institute of veterinary and animal Science, Akola |
| 5. | Production system and thematic area | Semi-intensive & Disease management |
| 6. | Performance of the Technology with performance indicators | Occurrence of subclinical mastitis tested by BTB strip |
| 7. | Final recommendation for micro level situation | Technology option I i.e., Use of teat dip (iodine) is more beneficial as compared to Farmer Practice and Technology option II. |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & OFT |

*Thematic area:*

Problem definition: Reoccurring of sub clinical mastitis in cattle

Technology assessed:

Farmers Practice (FP): Use of water to clean teat
Technology option-I (TO-I): Use of teat dip (iodine)
Technology option-II (TO-II): Use of antioxidant & trace mineral, vitamin E and selenium

Table:

| **Technological option** | Replication | Occurrence of subclinical mastitis |
|---|---|---|
| Farmer Practice (FP) | 10 | 08 |
| TO-I | | 02 |
| TO-II | | 05 |

**Result:** The table reveals that, TO - I i.e., Use of teat dip (iodine) is more beneficial as compared to Farmer Practice and TO-II.

**OFT-1 (Agronomy) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | To access the suitable nitrogen management through different tools on paddy under rice- wheat cropping system |
| 2. | Problem diagnosed | Low yield and excessive use of N fertilizer |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | $TO_1$ – Farmer Practice - 225:40:0 kg NPK/ha<br>$TO_2$ – Recommended dose of Fertilizer (120:60:40)kg NPK/ha (210 kg urea)<br>$TO_3$ –Use of green seeker at 1st and 2nd top dressing (1/2 dose of N (80 kg urea) and 60:40kg P:K/ha) (52 kg urea at tillering stage+ 50 kg urea at panicle initiation stage)<br>$TO_4$ –Use of LCC at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-RCER Patna |
| 5. | Production system and thematic area | Rice-Wheat Production System & Integrated nutrient management |
| 6. | Performance of the Technology with performance indicators | Yield attributes, Yield, Economics |
| 7. | Final recommendation for micro level situation | Maximum grain yield and straw yield were recorded with TO3 Use of green seeker at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha). Net return Rs. 58151/ha and BC ratio were also recorded maximum with TO3 Use of green seeker at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha) over other technology option. |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & Kisan gosthi |

## *Thematic area:* ICM

Problem definition: Low yield and quality of paddy due to Imbalance use of fertilizer

Technology assessed:

$TO_1$ – Farmer Practice - 225:40:0 kg NPK/ha
$TO_2$ – Recommended dose of Fertilizer (120:60:40) kg NPK/ha
$TO_3$ –Use of green seeker at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha)
$TO_4$ –Use of LCC at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha)

**Table:**

| Technology option | No. of trials | Yield (q/ha) | Straw Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---|---|---|---|---|---|---|---|
| $TO_1$ | 7 | 38.52 | 57.12 | 33500 | 75499 | 41999 | 2.3 |
| $TO_2$ | | 42.16 | 55.97 | 31400 | 82634 | 51234 | 2.6 |
| $TO_3$ | | 45.23 | 56.22 | 30500 | 88651 | 58151 | 2.9 |
| $TO_4$ | | 43.26 | 54.91 | 30200 | 84790 | 54590 | 2.8 |

**Result:** Maximum grain yield and straw yield were recorded with TO3 Use of green seeker at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha). Net return Rs. 58151/ha and BC ratio were also recorded maximum with TO3 Use of green seeker at 1st and 2nd top dressing (1/2 dose of N and 60:40kg P:K/ha) over other technology option.

**OFT – 2 (Agronomy) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | To access the suitable herbicide in wheat to control the complex weed flora of South Bihar. |
| 2. | Problem diagnosed | Low income due to high infestation of weed |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS)<br>$TO_1$ –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS<br>$TO_2$ – Application of Clodinofob ethyl 400g/ha+ Carfentrazone - ethyle 50g/ha at 30 DAS |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-RCER Patna |
| 5. | Production system and thematic area | Rice-wheat Production System & Integrated Weed management |
| 6. | Performance of the Technology with performance indicators | Yield attributes, Yield, weed studies Economics |
| 7. | Final recommendation for micro level situation | |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & gosthi |

*Thematic area:*

Problem definition: Low income due to high infestation of weed.

Technology assessed:

Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS)
$TO_1$ –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS
$TO_2$ – Application of Clodinofob ethyl 400g/ha+ Carfentrazone-ethyle 50g/ha at 30DAS

Table:

| **Technology option** | **No. of trials** | **Weed count/$m^2$** | **Yield (q/ha)** | **Cost of cultivation (Rs./ha)** | **Gross return (Rs/ha)** | **Net return (Rs./ha)** | **BC ratio** |
|---|---|---|---|---|---|---|---|
| Farmer Practice | 5 | | | | | | |
| $TO_1$ | | | | | | | |
| $TO_2$ | | | | | | | |

Results: Crop is at tillering stage

**OFT-3 (Agronomy) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | To assess the suitable cropping system under rice fallow condition of South Bihar |
| 2. | Problem diagnosed | • Low system productivity & profitability under rice fallow system due to water scarcity<br>• Soil moisture deficiency for next crop |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | $TO_1$ (FP) – Rice-Fallow<br>$TO_2$ –Rice (S. Harshit)-Utera Lentil<br>$TO_3$ –Rice (S. Harshit)-Utera Lathyrus<br>$TO_4$ - Rice (S. Harshit)-Utera Linseed |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-RCER, Patna |
| 5. | Production system and thematic area | Paddy- fallow & Cropping system |
| 6. | Performance of the Technology with performance indicators | Yield attributes, Net return, B:C ratio |
| 7. | Final recommendation for micro level situation | |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training and gosthi |

## *Thematic area:* Crop system

Problem definition: Low system productivity & profitability under rice fallow system due to water scarcity and Soil moisture deficiency for next crop

Technology assessed:

$TO_1$ (FP) – Rice-Fallow
$TO_2$ –Rice (S. Harshit)-Utera Lentil
$TO_3$ –Rice (S. Harshit)-Utera Lathyrus
$TO_4$ - Rice (S. Harshit)-Utera Linseed

**Table:**

| Treatment | Replication | | Yield (q/ha) | | | |
|---|---|---|---|---|---|---|
| | | Rice | Fallow | Lentil | Lathyrus | Linseed |
| $TO_1$ - Farmer Practice (Rice-Fallow) | 7 | 41.35 | | | | |
| $TO_2$ – Rice (S. Harshit)-Utera Lentil | | 43.2 | | | | |
| $TO_3$ – Rice (S. Harshit)-Utera Lathyrus | | 46.7 | | | | |
| $TO_4$ - Rice (S. Harshit)-Utera Linseed | | 45.62 | | | | |

| Treatment | Replication | Cost of cultivation | | | | | | Gross Income(Rs) | | | | | | Net Income (Rs) | B:C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rice | Fallow | Lentil | Lathyrus | Linseed | Total | Rice | Fallow | Lentil | Lathyrus | Linseed | Total | | |
| $TO_1$ | 7 | 32260 | | | | | | | | | | | | | |
| $TO_2$ | | 32260 | | | | | | | | | | | | | |
| $TO_3$ | | 32260 | | | | | | | | | | | | | |
| $TO_4$ | | 32260 | | | | | | | | | | | | | |

**Results:** Ongoing wheat crop.

**OFT-4 (Agronomy) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | To assess the suitable herbicide to control the weed in paddy |
| 2. | Problem diagnosed | Heavy weed infestation of mixed flora while *cyprus rotandus* is a serious problem in rice causing reduction in yield |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | $TO_1$ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT<br>$TO_2$ – $TO_1$ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT<br>$TO_3$ – $TO_1$ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bispyribac sodium 25 g a.i/ha as a POE at 20 – 25 DAT |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | CSISA - CYMMYT |
| 5. | Production system and thematic area | Rice-Wheat Production System & Integrated Weed Management |
| 6. | Performance of the Technology with performance indicators | Yield attributes, Net return, B:C ratio, weed studies |
| 7. | Final recommendation for micro level situation | Treatment $TO_3$ perform better than other two treatment with respect to average weed density/$m^2$ (13.2), average yield (52.9 q/ha) and B:C ratio (2.83) respectively. |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & gosthi |

## *Thematic area:*

Problem definition: Heavy weed infestation of mixed flora while *cyprus rotandus* is a serious problem in rice causing reduction in yield.

Technology assessed:

$TO_1$ (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT
$TO_2$ – $TO_1$ + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT
$TO_3$ – $TO_1$ +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bispyribac sodium 25 g a.i/ha as a POE at 20 – 25 DAT

Table:

| Technology option | No. of trials | Yield component | | | Weed density/$m^2$ | Yield (q/ha) | Cost of cultivation (Rs. /ha) | Gross return (Rs./ha) | Net return (Rs. /ha) | B:C ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of effective tillers/hill | Plant height (cm) | Panicle length (cm) | | | | | | |
| $TO_1$ (FP) | 7 | 13.6 | 90.5 | 18.4 | 27.4 | 43.2 | 34780 | 83808 | 49028 | 2.4 |
| $TO_2$ | | 15.3 | 96.9 | 19.7 | 19.4 | 46.1 | 34890 | 89434 | 54544 | 2.56 |
| $TO_3$ | | 22.3 | 102.0 | 21.7 | 13.2 | 52.9 | 36195 | 102626 | 66431 | 2.83 |

Results: On the basis of above experiment the treatment $TO_3$ perform better than other two treatment with respect to average weed density/$m^2$ (13.2), average yield (52.9 q/ha) and B:C ratio (2.83) respectively.

**OFT- 5 (Extension Education) (2021-22)**

| | | |
|---|---|---|
| 1 | **Title** | Assessment of Soil Health Card in paddy of Gaya District. |
| 2 | **Problem diagnosed** | Only few farmers are aware about importance and benefits of Soil Health Card |
| 3 | **Technological option** | Farmers Practice - Farmers having no Soil Health Card.<br>Option I – Have Soil Health Card but applying as recommended in training/ Group meeting<br>Option II - Have Soil Health Card and apply fertilizers as par recommendations. |
| 4 | **Source of Technology** | BAU, Ranchi, Jharkhand |
| 5 | **Replication** | 90 |
| 6 | **Production system and thematic area:** | Paddy-Wheat-Green gram and Capacity building |
| 7 | **Performance of the technology with performance indicators** | i. Level of knowledge (%)<br>ii. Level of adoption (%)<br>iii. Yield (qt./ha)<br>iv. BCR |
| 8 | **Constraints identified** | Low reliability on SHC and difficulty in calculation of fertilizer dose |
| 9 | **Process of Farmer Participation** | Training, Group discussion and positive response of farmers. |

## *Thematic area:* Capacity building

Problem definition: Only few farmers are aware about importance and benefits of Soil Health Card

Technology assessed:

Farmers Practice - Farmers having no Soil Health Card.
Option I – Have Soil Health Card but applying as recommended in training/ Group meeting
Option II - Have Soil Health Card and apply fertilizers as per recommendations.

Table:

| Tech. Option | No. of trial | Level of knowledge (%) | Level of adoption (%) | Yield (qt./ha) | Cost of cultivation (Rs/ha) | Gross. Return (Rs/ha) | Net Return (Rs/ha) | BC Ratio |
|---|---|---|---|---|---|---|---|---|
| Farmers Practice - Farmers having no Soil Health Card. | 90 | 22.8 | 17.6 | 27.4 | 29092 | 49332 | 20240 | 1.70 |
| Tech. option-I – Have Soil Health Card but applying as recommended in training/ Group meeting | | 38.0 | 34.6 | 34.3 | 30522 | 61776 | 31254 | 2.02 |
| Tech. option-II - Have Soil Health Card and apply fertilizers as per recommendations. | | 48.7 | 42.7 | 40.0 | 31761 | 72012 | 40251 | 2.27 |

Result: The data in table reveals that Tech. option-II i.e. application of fertilizer as per recommendation through SHC is more effective in increasing level of knowledge (48.7%), adoption (42.7%) with highest B C Ratio of 2.27 than recommendation of fertilizer given through training/ group discussion. Hence, more and more farmers should be motivated to have SHC and apply dose of fertilizers as per recommendations in SHC.

**OFT- 6 (Extension Education) (2021-22)**

| | | |
|---|---|---|
| 1 | **Title** | Assessment of different Extension Teaching methods used in popularising wheat sowing by Zero Tillage Machine among farmers of Gaya District. |
| 2 | **Problem diagnosed** | Capacity building |
| 3 | **Technological option** | Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine.<br>$TO_1$– Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine<br>$TO_2$ - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine |
| 4 | **Source of Technology** | BAU Sabour |
| 5 | **Replication** | 90 |
| 6 | **Production system and thematic area:** | Paddy-Wheat-Moong, Capacity building |
| 7 | **Performance of the technology with performance indicators** | 1. Level of knowledge (%)<br>2. Level of adaption (%)<br>3. B:C ratio |
| 8 | **Constraints identified** | Lack of availability of ZT Machine |
| 9 | **Process of Farmer Participation** | Farmers were found very enthusiastic about sowing of wheat by ZT Machine |

## *Thematic area:* Capacity building

Problem definition: As a result of high cost of cultivation and late sowing of wheat there is less productivity, resulting in less net income

**Technology assessed:**

Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine.
$TO_1$– Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine
$TO_2$ - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine

Table:

| Tech. Option | No. of trial | Level of knowledge (%) | Level of adoption (%) | Yield (qt./ha) | Cost of cultivation (Rs/ha) | G.Return (Rs/ha) | Net Return (Rs/ha) | BC Ratio |
|---|---|---|---|---|---|---|---|---|
| Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine. | 90 | | | | | | | |
| $TO_1$– Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine | | | | | | | | |
| $TO_2$ - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine | | | | | | | | |

Result: Ongoing

**OFT- 7 (Veterinary) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Evaluation of ethnoveterinary preparation for treatment of retention of placenta (ROP) in cattle |
| 2. | Problem diagnosed | Retention of placenta in cattle |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmer Practice (FP) - Rice husk<br>TOI – Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving<br>TO II – Exapar @ 100 ml x 2 |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | NDDB, Anand, Gujarat |
| 5. | Production system and thematic area | Semi-intensive & Disease management |
| 6. | Performance of the Technology with performance indicators | No. of animal effectively treated |
| 7. | Final recommendation for micro level situation | Technology option II i.e. Use of Exapar @ 100 ml x 2 is more beneficial as compared to Farmer Practice and Technology option I. |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | Training & OFT |

## *Thematic area:*

Problem definition: Retention of placenta in cattle

Technology assessed:

Farmer Practice (FP) - Rice husk
TOI – Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving
TO II – Exapar @ 100 ml x 2

Table:

| Technological option | Replication | No. of animal effectively treated |
|---|---|---|
| Farmer Practice (FP) | 7 | 2 |
| TO-I | | 3 |
| TO-II | | 5 |

**Result:** The table reveals that, technology option II i.e., Use of Exapar @ 100 ml x 2 is more beneficial as compared to Farmer Practice and TO-I.

**OFT- 8 (Veterinary) (2021-22)**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle |
| 2. | Problem diagnosed | Postpartum infertility in cattle |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day<br>TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days<br>TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BVC, Patna |
| 5. | Production system and thematic area | Semi-intensive & Disease management |
| 6. | Performance of the Technology with performance indicators | No. of animal came in heat, No. of animal pregnant, |
| 7. | Final recommendation for micro level situation | TO-II is more beneficial |
| 8. | Constraints identified and feedback for research | Non-descript breed and not giving balanced ration. |
| 9. | Process of farmers participation and their reaction | Training & OFT |

## *Thematic area:*

Problem definition: Postpartum infertility in cattle

Technology assessed:

Farmer Practice (FP) - Dewormer + Mineral Mixture @ 50 gm/day
TOI – FP + Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days
TO II – FP + TOI + GnRH Inj. @ 5 ml at the time of AI

Table:

| Technological option | Replication | No. of animal came in heat | No. of animal pregnant |
|---|---|---|---|
| Farmer Practice (FP) | 7 | 2 | 1 |
| TO-I | | 6 | 3 |
| TO-II | | 6 | 4 |

Results: The table reveals that, technology option II i.e. use of Dewormer + Mineral Mixture @ 50 gm/day, Inorganic Phosphorus Inj. + Vitamin $AD_3E$ Inj. @ 10 ml alternate day + Micro-minerals 1 Bolus for 28 days, GnRH Inj. @ 5 ml at the time of AI is more beneficial as compared to Farmer Practice and TO-I, in terms of animal came in heat and got pregnant.

3.1.2 Technology Assessed by KVK (Discipline wise)

| Sl. No. | Discipline | Thematic areas | No. of the technologies (Technology Interventions) | No. of trials | No. of Locations |
|---|---|---|---|---|---|
| 1. | Crop Production | INM | 4 | 7 | 7 |
| | | IWM | 3 | 7 | 7 |
| | | Cropping system | 4 | 7 | 7 |
| | | IWM | 3 | 7 | 7 |
| 2. | Livestock | Disease management | 3 | 7 | 7 |
| | | Disease management | 3 | 7 | 7 |
| 3. | Enterprises | Capacity building | 3 | 90 | 28 |
| | | Capacity building | 3 | 90 | 33 |
| 4. | Women Empowerment | | | | |
| | | | | | |

## 3.2 Achievements of Frontline Demonstrations

### A. Details of FLDs conducted during the year

Cereals & others

| 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 | | | |
| | | | | | | M | F | M | F | M | F | M | F | T | |
| 1. | Wheat 2020-21 | ICM | Bio-fortified seed, BHU-31, BHU-25, WB-02 | 6.0 | 6.0 | 4 | 1 | 0 | 0 | 7 | 1 | 11 | 1 | 12 | |
| 2. | Cabbage 2020-21 | Veg. Production | Seed (Mahy-139) | 2.0 | 2.0 | 0 | 6 | 0 | 0 | 0 | 17 | 0 | 23 | 23 | |
| 3. | Chickpea 2020-21 | ICM | Rhizobium & PSB | 5.0 | 5.0 | 5 | 0 | 0 | 0 | 20 | 0 | 25 | 0 | 25 | |
| 4. | Paddy 2021-22 | ICM | Single seedling | 5.0 | 5.0 | 8 | 0 | 0 | 0 | 17 | 0 | 25 | 0 | 25 | |
| 5. | Paddy 2021 - 22 | ICM | PSB + Azotobacter | 10.0 | 10.0 | 7 | 0 | 0 | 0 | 18 | 0 | 25 | 0 | 25 | |
| 6. | Wheat 2021 - 22 | ICM | Bio-fortified seed, BHU-31, BHU-25, WB-02 | 6.2 | 6.2 | 12 | 0 | 0 | 0 | 26 | 0 | 38 | 0 | 38 | |
| 7. | Wheat 2021 - 22 | ICM | ZT, S. Shrestha, Herbicide | 10.0 | 10.0 | 4 | 1 | 0 | 0 | 20 | 0 | 24 | 1 | 25 | |

Details of farming situation

| S. N. | 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 | $P_2O_5$ | $K_2O$ | | | | | |
| 1 | Wheat | Rabi 2020-21 | Irrigated | Clay loam | 193.4 | 20.3 | 254.6 | Paddy | 17 Dec. 2020 | 10 Apr 2021 | 850 | 04 |
| 2 | Cabbage | Rabi 2020-21 | Irrigated | Clay loam | 196.2 | 15.8 | 267.3 | Paddy | 18 Oct. 2020 | 22 Jan 2021 | 850 | 04 |
| 3 | Chickpea | Rabi 2020-21 | Irrigated | Clay loam | 60.0 | 40.0 | 50.0 | Paddy | 21 Nov. 2020 | 25 Mar 2020 | 850 | 04 |
| 4 | Paddy | Kharif 2021-22 | Irrigated | Clay loam | 198.5 | 18.6 | 298.1 | Wheat | 10 June 2020 | 28 Nov 2020 | 850 | 36 |
| 5 | Paddy | Kharif 2021- 22 | Rainfed | Clay loam | 192.7 | 19.5 | 291.3 | Moong | 12 July 2020 | 25 Oct 2020 | 850 | 36 |
| 6 | Wheat | Rabi 2021-22 | Irrigated | Clay loam | 193.4 | 20.3 | 254.6 | Paddy | 15 Dec. 2021 | - | 0 | 02 |
| 7 | Wheat | Rabi 2021-22 | Irrigated | Clay loam | 192.6 | 20.7 | 261.9 | Paddy | 25 Nov. 2021 | - | 0 | 02 |

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.

B. Performance of FLD

**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 |
| Groundnut | ICM | Var. - Dharni | 10 | 1.0 | 12.6 | 10.7 | 17.75 | 25500 | 63000 | 37500 | 2.47 | 26800 | 53500 | 26700 | 1.99 |
| | | | | | | | | | | | | | | | |
| 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) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Wheat 2020-21 | Biofortified | BHU-31 | 6 | 2.2 | 31.6 | 27.5 | 14.9 | | | 30220 | 61936 | 31716 | 2.05 | 34640 | 53900 | 19260 | 1.56 |
| | | BHU-25 | 6 | 2.2 | 34.26 | 27.5 | 23.15 | | | 30220 | 67150 | 36930 | 2.22 | 34640 | 53900 | 19260 | 1.56 |
| | | WB-02 | 3 | 1.6 | 29.85 | 27.5 | 10.96 | | | 30220 | 58506 | 28286 | 1.94 | 34640 | 53900 | 19260 | 1.56 |
| Cabbage 2020-21 | HYVs | Mahy. 139 | 23 | 2.0 | 306.41 | 230.86 | 24.66 | - | - | 64737.5 | 275767 | 211029.4 | 4.3 | 62107.6 | 207775.1 | 145667.6 | 3.35 |
| Chickpea 2020-21 | ICM | Bio-fertilizer | 25 | 10.0 | 17.4 | 11.3 | 53.9 | | | 20600 | 53000 | 32400 | 2.57 | 26710 | 87000 | 60290 | 3.26 |
| Paddy 2021-22 | ICM | Bio-fertilizer (PSB) | 25 | 5 | 41.6 | 37.2 | 11.61 | | | 35270 | 83141 | 47871 | 2.36 | 34327 | 74489 | 40162 | 2.17 |
| Paddy 2021-22 | ICM | R. Sweta + PSB + Azotobacter | 25 | 10 | 42.8 | 39.6 | 8.1 | | | 36290 | 83888 | 47598 | 2.31 | 34900 | 77616 | 42716 | 2.22 |
| Wheat 2021-22 | ICM | BHU-31, BHU-25, WB-02 | 12 | 5 | Crop standing | | | | | | | | | | | | |
| | | Total | **125** | **38** | | | | | | | | | | | | | |

**Livestock**

| Category | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters Production q/ha | | % change in major parameter | Other parameter Milk/Day/Animal | | *Economics of demonstration (Rs.) | | | | *Economics of check (Rs.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demonstration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Dairy 2021-22 | Dairy management | Chelated mineral mixture | 20 | | - | - | 14.89 | 8 | 7 | 7310 | 16937 | 9627 | 2.32 | 7050 | 14742 | 7692 | 2.09 |
| Cow | | | | | | | | | | | | | | | | | |
| Buffalo | | | | | | | | | | | | | | | | | |
| Poultry | | | | | | | | | | | | | | | | | |
| Rabbitry | | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | | | | | | | | |
| Duckery | | | | | | | | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | | | | | | | | |
| Fodder 2020-21 | Fodder production | Makhan Grass | 20 | 0.8 | 508 | 465 | 9.22 | 7 | 6 | 6836 | 16536 | 9700 | 2.41 | 6783 | 15134 | 8351 | 2.23 |
| Fodder 2021-22 | Fodder production | Makhan Grass | 20 | 1 | Crop standing | | | | | | | | | | | | |
| 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.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demonstration | 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 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demonstration | Check | | Demonstration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Oyster mushroom | Enterprise development | | | | | | | | | | | | | | | |
| Button mushroom 2020-21 | Button mushroom | 50 | 250 | 2.8kg/bag | 1.5kg/bag | 46.43 | - | - | 81.00/bag | 308/bag | 226.96/bag | 3.80 | 60.34/bag | 135/bag | 74.66/bag | 2.22 |
| Button mushroom 2021-22 | Button mushroom | 50 | 250 | Ongoing | | | | | | | | | | | | |
| Vermicompost | | | | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | | | | |
| Apiculture | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | |
| Total | | **100** | **500** | | | | | | | | | | | | | |

* 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 | | | | | |
| Pregnant women | | | | | |
| Adolescent Girl | | | | | |
| Other women | | | | | |
| 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) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | | | | | | | | |
| | | | | | | | | | | | | | | | |

* 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) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demo | Local check | % change | Gross Cost | Gross Return | Net Return | BCR |
| **Cereals** | | | | | | | | | | |
| Bajra | | | | | | | | | | |
| Maize | | | | | | | | | | |
| Paddy | | | | | | | | | | |
| Sorghum | | | | | | | | | | |
| Wheat | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Cereals** | | | | | | | | | | |
| **Oilseeds** | | | | | | | | | | |
| Castor | | | | | | | | | | |
| Mustard | | | | | | | | | | |
| Safflower | | | | | | | | | | |
| Sesame | | | | | | | | | | |
| Sunflower | | | | | | | | | | |
| Groundnut | | | | | | | | | | |
| Soybean | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Oilseeds** | | | | | | | | | | |
| **Pulses** | | | | | | | | | | |
| Greengram | | | | | | | | | | |
| Blackgram | | | | | | | | | | |
| Bengalgram | | | | | | | | | | |
| Redgram | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Pulses** | | | | | | | | | | |
| **Vegetable crops** | | | | | | | | | | |
| Bottle gourd | | | | | | | | | | |
| Capsicum | | | | | | | | | | |
| Cucumber | | | | | | | | | | |
| Tomato | | | | | | | | | | |
| Brinjal | | | | | | | | | | |
| Okra | | | | | | | | | | |
| Onion | | | | | | | | | | |
| Potato | | | | | | | | | | |
| Field bean | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Veg. Crops** | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Crops** | | | | | | | | | | |
| Cotton | | | | | | | | | | |
| Coconut | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Commercial Crops** | | | | | | | | | | |
| **Fodder crops** | | | | | | | | | | |
| Napier (Fodder) | | | | | | | | | | |
| Maize (Fodder) | | | | | | | | | | |
| Sorghum (Fodder) | | | | | | | | | | |
| Others (Pl. specify) | | | | | | | | | | |
| **Total Fodder Crops** | | | | | | | | | | |

Technical Feedback on the demonstrated technologies

| S. N. | Crop | Feed Back |
|---|---|---|
| 1. | Wheat 2020-21 | Biofortified varieties produced at par yield will high zinc content quality |
| 2. | Cabbage 2020-21 | High yielding and high market price obtained due to good quality of produce |
| 3. | Chickpea 2020-21 | Use of bio-fertilizer increased the size of nodulation and yield |
| 4. | Paddy 2021-22 | Seed treatment with tricyclazole @ 2 gm/kg seed + spray of propiconazole @ 2 gm/ litre water at panicle initiation stage & dough stage controls the false smut effectively. Thus, resulted high yield and good quality of grain. |
| 5. | Paddy 2021 - 22 | Use of PSB and azatobactor reduces the application of nitrogen and phosphorus and increase the yield of paddy |
| 6. | Wheat 2021 - 22 | - |
| 7. | Groundnut | Dharni variety of groundnut increased the yield over local variety |
| 8. | Button Mushroom | High market price and nutritional security |
| 9. | Mineral Mixture | Chelated mineral mixture increased the milk production and reduces the infertility in animal |
| 10. | Makhan Grass | It contains high protein and dry matter. Thus, it increases milk production in cattle |

Extension and Training activities under FLD

| Sl. No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
|---|---|---|---|---|---|
| 1. | Field days | 04/03/2021,<br>23/03/2021 | 2 | 111 | Field days on wheat |
| 2. | Farmers Training | 06/12/2021,<br>09/12/2021,<br>24/12/2021,<br>03/07/2021 | 3 | 20<br>67<br>38<br>21 | Package & practices of wheat<br>Nutrient management in wheat<br>Nutrient management in wheat<br>Package & practices of paddy |
| 3. | Media coverage | 17/11/2021 | 1 | Mass | |
| 4. | Training for extension functionaries | 20/01/2021 | 1 | 34 | Irrigation management in wheat |

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

## A. 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 |
| **2020-21** | | | | | | | | | | | | | | | |
| 1 | Mustard | Kala Sona | 8.70 | -24 | 300 | 410 | RH-0749 + sulphur, Insecticide, Fungicide and Liquid consortia | 75 | 30 | 16.50 | 14.70 | 15.90 | 16.13 | 12.89 | 25.78 |
| 2 | Chickpea | Desia | 11.30 | 1190 | 1217 | 1880 | PG – 186 | 25 | 10 | 20.2 | 14.6 | 17.4 | 5.3 | 7.6 | 66.3 |
| 3 | Lentil | Titki | 8.3 | 960 | 1147 | 1560 | HUL - 57 | 25 | 10 | 17.6 | 10.4 | 14.0 | 15.6 | 38.2 | 88.0 |
| 4 | Field pea | Chotki matar | 10.85 | 1195 | 1225 | 1825 | IPFD 10-12 | 25 | 10 | 20.5 | 15.2 | 17.85 | 11.1 | 12.9 | 68.2 |
| 5 | Pigeon pea | Laldana | 11.6 | 1245 | 1667 | 1790 | IPA 203 + Bio-fertilizer | 25 | 10 | 15.6 | 9.3 | 12.45 | 7.3 | 43.7 | 54.3 |
| 6 | Green gram | Haradana | 6.3 | 690 | 705 | 780 | PDM-139 | 25 | 10 | 8.2 | 6.5 | 7.35 | 9.5 | 11.9 | 23.8 |
| **2021-22** | | | | | | | | | | | | | | | |
| 1 | Mustard | RH-0749 | Crop Standing | | | | RH-0749 + sulphur @ 40 kg/ha + Imidacloprid + Carbendazim + Mancozeb + Micro-nutrient | 127 | 40 | | | | | | |
| 2 | Pigeon pea | Desi | | | | | NA – 2 + Sulphur @ 20 kg/ha + Micro-nutrient + Insecticide | 25 | 10 | | | | | | |
| 3 | Chickpea | Chotki Chana | | | | | RVG - 203 | 25 | 10 | | | | | | |
| 4 | Lentil | Chotki Massor | | | | | HUL – 57 + sulphur @ 20 kg/ha + Imidacloprid + Carbendazim + Mancozeb + Micro-nutrient | 25 | 10 | | | | | | |

## B. 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 | RH-0749 + sulphur, Insecticide, Fungicide and Liquid consortia | 16882 | 29580 | 12698 | 1.75 | 18818 | 53924 | 35106 | 2.87 |
| 2 | PG – 186 | 20600 | 53000 | 32400 | 2.57 | 26710 | 87000 | 60290 | 3.26 |
| 3 | HUL – 57 | 19850 | 43860 | 24610 | 2.28 | 24390 | 60200 | 38810 | 2.81 |
| 4 | IPFD 10-12 | 20320 | 63000 | 42680 | 3.1 | 26970 | 107100 | 80130 | 3.97 |
| 5 | IPA 203 + Bio-fertilizer | 18690 | 45500 | 26810 | 2.43 | 21340 | 64740 | 43400 | 3.03 |
| 6 | PDM-139 | 19220 | 41000 | 21780 | 2.19 | 17690 | 32500 | 14810 | 1.83 |

## C. 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 | Mustard & RH-0749 | 119250 | 1220 | 65 | 5 kg | 8 | To meet own family needs | 2 |
| 2 | Chickpea & PG – 186 | 17400 | 1650 | 48 | 40 | 20 | Child education | 1 |
| 3 | Lentil & HUL - 57 | 14000 | 1225 | 46 | 10 | 10 | To meet own family needs | 2 |
| 4 | Field pea & IPFD 10-12 | 17850 | 1320 | 60 | 40 | 20 | To meet own family needs | 1 |
| 5 | Pigeon pea & IPA 203 | 12450 | 800 | 50 | 10 | 8 | To meet own family needs | 1 |
| 6 | Green gram & PDM-139 | 7350 | 426 | 80 | 8 | 4 | To meet own family needs | 1 |

## D. Oilseed and pulse 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 |
| **Oilseed** | | | | | | | |
| 1 | RH-0749 + Sulphur, | Suitable | Yellow sarson mostly | Afforda | - Low ground water | Yes, it is acceptable | • Quality seed of yellow sarson |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Insecticide, Fungicide and Liquid consortia | | likely by the farmers of this district. They don't prefer brown sarson. | ble | needs frequent irrigation<br>- Lack of irrigation facility and sowing time is mostly late | provided irrigation facility if available | must be ensured either from Govt. agency or private companies.<br>• Micro-irrigation system must be promoted<br>Need to generate irrigation facility |
| **Pulse** | | | | | | | |
| 1 | Quality seed and seed treatment | Well suited | Farmers generally prefers late sown variety of chickpea | Yes | No winter rainfall received during crop period. Surface irrigation is not possible in heavy soil and micro-irrigation system is not popular and available till date. | Yes, it is acceptable. | • Fund per hectare should be increased in this crop<br>• Seed of late sown chickpea variety is required in this district because late harvest of paddy delays sowing time |
| 2 | Quality seed | Well suited | Most choice crop among rabi pulses | Yes | No | Yes, it is acceptable. | • Fund per hectare should be increased<br>• More area should be allotted to KVK, Gaya under this crop due to liking by the farmers |
| 3 | Quality seed | Well suited | Most choice crop among rabi pulses | Yes | No | Yes, it is acceptable. | • Fund per hectare should be increased<br>• More area should be allotted to KVK, Gaya under this crop due to liking by the farmers |
| 4 | Sulphur, herbicide, Trichoderma & insecticide | Suitable to their soil and environment condition | Farmers prefer improved varieties over their local | Yes | No | Yes, it is acceptable. | • Short duration variety is required due to low moisture regime during growth period |
| 5 | Quality seed | Suitable to their soil and environment condition | Farmers prefer improved varieties over their local | Yes | No | Yes, it is acceptable. | • Short duration variety is required due to low moisture regime during growth period |

## E. Specific Characteristics of Technology and Performance

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| **Crop – 1: Mustard** | | | |
| Sulphur application | Yield increased | Almost 10% increase in yield was observed in sulphur applied plots | Increase in seed yield and oil yield both by observed by farmers when sulphur was applied in the field |
| **Crop – 2: Chickpea** | | | |
| Resistant to pod borer | Treated plot performed better in respect of growth and yield | Untreated seed if sown in the field, plant stand was poor & less yield realized | Farmers were satisfied to see the impact of seed treatment |
| **Crop – 3: Lentil** | | | |
| Resistant to wilt | High yielding variety | In local check plots this was observed more | Pre-emergence application of herbicide reduces all kind of weeds |
| | Reduced wilt infestation by 30% | In local check plots the severity was more | Soil application of trichoderma culture reduces wilt information |
| **Crop – 4: Field pea** | | | |
| Resistant to powdery mildew | High yielding variety | In local check plots this was observed more | Well suited for this region |
| **Crop – 5: Pigeon pea** | | | |
| Resistant to disease | Enhanced seed yield | Check plot realized less yield | For enhancing yield sulfur application is essential |
| Use of insecticide against pod borer | Reduced infestation upto 80% | In check plots severity was more | Farmers realized to spray insecticide two times to reduce the damage from podborer |
| **Crop – 6: Green gram** | | | |
| Resistant to disease | Enhanced seed yield | Check plot realized less yield | For enhancing yield sulfur application is essential |

## F. Extension activities under FLD conducted:

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmers attended |
|---|---|---|---|
| 1 | Field days – Chickpea | 04/03/2021 – Vill. - Mahmadpur, Block - Tekari | 21 |
| 2 | Field days – Lentil | 05/03/2021 – Vill. - Pathra, Block - Tankuppa | 81 |
| 3 | Field days – Mustard | 10/03/2021 – Vill. - Ahiyapur, Block - Konch | 102 |
| 4 | Field days – Field pea | 12/03/2021 – Vill. - Mundera, Block - Konch | 24 |
| 5 | Field days – Pigeon pea | 20/03/2021 – Vill. - Bara, Block - Tankuppa | 94 |
| 6 | Field days – Lathyrus | 23/03/2021 – Vill. - Gurua, Block - Gurua | 97 |

## G. Sequential good quality photographs (as per crop stages i.e., growth & development)

**1.** Mustard


**2.** Chickpea

**3.** Lentil


**4.** Fieldpea



**5.** Pigeonpea

## H. Farmers' training photographs

a. Mustard

b. Chickpea


c. Lentil


d. Fieldpea


e. Pigeonpea


## I. Quality Action Photographs of field visits/field days and technology demonstrated.

1. Mustard



2. Chickpea

3. Fieldpea

4. Lentil

5. Pigeonpea


**J. Details of budget utilization**

| Crop (provide crop wise information ) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| | i) Critical input | | | |
| | ii) TA/DA/POL etc. for monitoring | | | |
| | iii) Extension Activities (Field day) | | | |
| | iv)Publication of literature | | | |
| | Total | | | |

## Gramin Krishi Mausam Sewa:

| Sl. No. | Programme | No. |
|---|---|---|
| 1 | Total No. of Advisory | 104 |
| 2 | Field Visit | 117 |
| 3 | Feedback taken | 1608 |
| 4 | Farmers call | 1911 |
| 5 | No of farmers in social media group | 5463 |
| 6 | No. of beneficiaries | 617915 |

**1. District Climatic Data:-**

| S.N. | Month | Average Rainfall |
|---|---|---|
| 1 | January | 0.0 |
| 2 | February | 0.0 |
| 3 | March | 0.0 |
| 4 | April | 0.0 |
| 5 | May | 188.3 |
| 6 | June | 313.7 |
| 7 | July | 218.7 |
| 8 | August | 262.0 |
| 9 | September | 129.1 |
| 10 | October | 103.4 |
| 11 | November | 0.0 |
| 12 | December | 16.8 |

2. **Details of Agro Advisory Services: -** 104 Agro Advisory published in 2021 after proper discussion with the advisory panel. The advisory is prepared every Tuesday and Friday and dissiminated through whatsapp, Facebook, News Paper, Kisan chaupal, FAP, Agriculture department, NGO,s, email, short messages, call. 5943 farmers receiving agro met advisory bulletin though social media and whatsapp group.
3. **Research Paper Published: 01**
4. **Details of Extreme Events: -**

| Date | Extreme Event | Impact |
|---|---|---|
| 18-19 May 2021 | Taukte cyclone | Yield loss in green gram |
| 26 May 2021 | Yaas cyclone | do |
| 17-20 June 2021 | Heavy Rain | Nursery damage |
| 26-27 June 2021 | Heavy Rain | - |
| 29-30 July 2021 | Heavy Rain | Rotting in vegetables |
| 30 Sep. – 01 Oct. 2021 | Heavy Rain | Stagnation of water in vegetable |
| 18 December 2021 | Cold day | - |
| 20 December 2021 | Cold day | - |
| 28-30 December 2021 | Moderate Rain | Blight disease in potato |

**5. Detail FAP/ Training and the Outreach Programme:-**

| S.No. | Month | No. of FAP | No. of participants |
|---|---|---|---|
| 1 | January | 4 | 105 |
| 2 | February | 2 | 44 |
| 3 | March | 4 | 112 |
| 4 | April | 2 | 45 |
| 5 | May | 2 | 45 |
| 6 | June | 2 | 50 |
| 7 | July | 2 | 40 |
| 8 | August | 2 | 38 |
| 9 | September | 5 | 139 |
| 10 | October | 2 | 63 |
| 11 | November | 2 | 81 |
| 12 | December | 3 | 91 |
| | **Total** | **30** | **808** |

## SCHEDULED CASTE SUB – PLAN (SCSP)

Frontline demonstration

| 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 |
| Wheat 2020-21 | ICM | Variety (HD - 2967) + Seed Treatment | 104 | 32 | 31.5 | 27.6 | 14.1 | 30320 | 66370 | 36050 | 2.19 | 34740 | 75465 | 40725 | 2.17 |
| Chickpea 2020-21 | ICM | Variety (PG - 186) + Seed Treatment | 30 | 5 | 15.7 | 12.9 | 21.7 | 26710 | 87000 | 60290 | 3.26 | 20600 | 53000 | 32400 | 2.57 |
| Lentil 2020-21 | ICM | Variety (HUL - 57) + Seed Treatment | 66 | 20 | 14.4 | 11.6 | 24.1 | 24490 | 60350 | 35860 | 2.46 | 19950 | 43750 | 23800 | 2.19 |
| Mustard 2020-21 | ICM | Variety (RH - 0749) + Seed Treatment | 42 | 10 | 13.2 | 10.3 | 28.2 | 18350 | 53450 | 35100 | 2.91 | 16270 | 38780 | 22510 | 2.38 |
| Mushroom 2020-21 | Income generation | Button mushroom | 80 | 1600 | 3 | 2 | 50.0 | 90 | 320 | 230 | 3.56 | 65 | 170 | 105 | 2.62 |
| Mineral mixture 2020-21 | Feed management | Chelated mineral mixture | 135 | 270 | 8.5 | 7.5 | 13.3 | 7450 | 17000 | 9550 | 2.28 | 7100 | 15200 | 8100 | 2.14 |
| Paddy 2021-22 | ICM | Variety (R. Sweta) + Seed Treatment | 24 | 5 | 39.3 | 35.3 | 11.3 | 42250 | 87900 | 45650 | 2.08 | 43500 | 80800 | 37300 | 1.86 |
| Wheat 2021-22 | ICM | Variety (HD - 2967) + Seed Treatment | 50 | 10 | Crop standing | | | | | | | | | | |
| Chickpea 2021-22 | ICM | Variety (PG - 186) + Seed Treatment | 25 | 5 | Crop standing | | | | | | | | | | |

## SCHEDULED CASTE SUB – PLAN (SCSP) – Capital 2021

| Sl. No. | Item | No. of item | No. of farmer |
|---|---|---|---|
| 1. | Hand hoe | 21 | 21 |
| 2. | Carat | 6 | 6 |

## NARI Programme:

| Sl. No. | Center Name |
|---|---|
| 1. | KVK, Manpur, Gaya |
| 2. | Aanganbadi Kendra, Kujapi (Badhai Tola) |
| 3. | Aanganbadi Kendra, Bheriya Kala, Manpur |
| 4. | Aanganbadi Kendra, Bheriya Khurd-I, Manpur |
| 5. | Aanganbadi Kendra, Khanzahanpur, Manpur |
| 6. | South Bihar Central University, Panchanpur, Tekari |

# CLIMATE RESILIENT AGRICULTURE PROGRAM (CRAP)

**Proposed target and area achieved under different interventions during Rabi, 2020-21:**

| S. No. | Proposed Interventions | Variety | Target Area (Acre) | Achieved Area (Acre) | Yield (Q/ha) | | Straw Yield (Q/ha) | | Harvest Index (%) |
|---|---|---|---|---|---|---|---|---|---|
| **1** | Zero Tillage Wheat | HD-2967 | 415 | 390 | 46.65 | 41.45 | 55.26 | 53.26 | 45.78 |
| | | Sabour Shrestha | | 25 | 36.24 | 34.70 | 51.45 | 50.80 | 41.33 |
| | | **Total** | | **415** | | | | | |
| **2** | Zero Tillage Lentil | HUL-57 | 25 | 25 | 11.25 | 9.25 | 13.26 | 12.90 | 45.90 |
| **3** | Zero Tillage Mustard | RH-749 | 50 | 50 | 8.8 | 7.9 | 26.80 | 25.85 | 25.43 |
| **4** | Flat bed Maize | S2-945 | 63 | 35 | 51.44 | 46.62 | 60.22 | 58.46 | 46.07 |
| **5** | Zero Tillage Chickpea | Pusa-3043 | 30 | 30 | 13.55 | 11.34 | 16.44 | 15.20 | 42.36 |
| | | **Total** | **583** | **555** | | | | | |

**Results Rabi, 2020-21**

| S. No. | Name of technology | Variety | Cost of cultivation (Rs./ha) | | Gross Return (Rs/ha) | | Net Return (Rs./ha) | | B:C Ratio | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Demo | Local check | Demo | Local check | Demo | Local check | Demo | Local check |
| 1 | Zero Tillage Wheat | HD-2967 | 32100.00 | 34400.00 | 92,133.75 | 81863.75 | 63,933.75 | 2.38 | 2.87 | 2.38 |
| | | Sabour Shrestha | 32100.00 | 34400.00 | 71,574.00 | 68532.50 | 43,374.00 | 1.99 | 2.23 | 1.99 |
| 2 | Zero Tillage Lentil | HUL-57 | 19840.00 | 20400.00 | 57,375.00 | 47175.00 | 37,535.00 | 2.31 | 2.89 | 2.31 |
| 3 | Zero Tillage Mustard | RH-749 | 19400.00 | 22200.00 | 40,920.00 | 36735.00 | 21,520.00 | 1.65 | 2.11 | 1.65 |
| 4 | Flat bed Maize | S2-945 | 24200.00 | 27250.00 | 96,192.80 | 87179.40 | 71,992.80 | 3.20 | 3.97 | 3.20 |
| 5 | Zero Tillage Chickpea | Pusa-3043 | 20200.00 | 23600.00 | 69,105.00 | 57834.00 | 48,905.00 | 2.45 | 3.42 | 2.45 |

**Physical and achieved target under CRAP project in Summer-2021:**

| Crop | Variety | Physical Target Area (Acre) | Achieved Target area (Acre) | |
|---|---|---|---|---|
| | | | Farmer's field | KVK |
| Moong | IPM-2-3 | 250 | 250 | 1 |

**Results (Summer 2021)**

| Crop | Technology | Grain yield (q/ha) | | Straw yield (q/ha) | | Cost of Cultivation (INR/ha) | | Gross Return (INR/ha) | | Net Return (INR/ha) | | B : C Ratio | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Demo | Local check | Demo | Local check | Demo | Local check | Demo | Local check | Demo | Local check | Demo | Local check |
| **Summer season (2021)** | **Zero tillage Moong** | 8.9 | 7.9 | 21.8 | 21.7 | 17800 | 19100 | 64044 | 56848 | 46244 | 37748 | 3.6 | 3.0 |

**Proposed target, area achieved and results under different interventions during Kharif-2021:**

| Crop | Technology | Variety | Target (Acre) | Demonstration (Acre) | Grain yield (q/ha) | | Straw yield (q/ha) | | Harvest Index (%) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Local check | Demo | Local check | Demo | Local check |
| Rice | Direct Seeded Rice | R. Sweta | 20 | 20 | 41.21 | 36.22 | 50.17 | 48.66 | 45.10 | 42.67 |
| | Transplanted Rice | Arize-6444 Gold | 290 | 290 | 66.76 | 54.48 | 74.80 | 69.78 | 47.16 | 43.84 |
| | | S. Ardhjal | | | 41.23 | 38.16 | 50.24 | 48.7 | 45.07 | 43.93 |
| | | Swarna Shreya | | | 36.58 | 34.22 | 44.85 | 44.25 | 44.92 | 43.61 |
| | | Swarna Samridhi | | | 42.16 | 39.65 | 51.42 | 49.6 | 45.05 | 44.43 |
| | | Sahbhagi | | | 30.58 | 28.12 | 42.24 | 41.9 | 41.99 | 40.16 |
| | | R. Sweta | | | 45.75 | 40.24 | 53.86 | 50.66 | 45.93 | 44.27 |
| | Alternate wetting/drying irrigation in rice | R. Sweta | 100 | 100 | 46.59 | 38.11 | 55.72 | 54.23 | 45.54 | 41.27 |
| | Water harvesting and field bunding in rice | R. Sweta | 40 | 40 | 44.24 | 38.36 | 53.46 | 52.48 | 45.28 | 42.23 |
| | Nutrient Expert/green seeker based nutrient management /INM in Rice | R. Sweta | 35 | 35 | 45.04 | 37.86 | 53.98 | 49.31 | 45.49 | 43.43 |
| Maize | Raised Bed planting | | 30 | 30 | 38.39 | 36.63 | 49.67 | 48.70 | 43.60 | 42.93 |
| Pigeon Pea | Raised Bed planting | | 20 | 20 | Failed | | | | | |
| | Bund planting | | 20 | 20 | Crop is standing in the field | | | | | |
| Maize+Pigeon Pea | Intercropping | | 20 | 15 | Failed | | | | | |
| Ragi | | | 10 | 7 | Failed | | | | | |
| Bajra | | | 10 | 5 | Failed | | | | | |
| **Total** | | | **595** | **582** | | | | | | |

**Note: Crop failure was due to excessive rainfall in the early stages of crop growth**

## Results Kharif-2021

| Crop | Name of technology | Variety | Cost of cultivation(INR/ha) | | Gross Return(INR/ha) | | Net Return(INR/ha) | | B:C Ratio | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Demo | Local check | Demo | Local check | Demo | Local check | Demo | Local check |
| Rice | Direct Seeded Rice | R. Sweta | 32250.00 | 30450.00 | 79947.4 | 70266.80 | 41697.40 | 29816.80 | 2.48 | 2.31 |
| | Transplanted Rice | Arize-6444 Gold | 34550.00 | 32460.00 | 129514.4 | 105691.20 | 82964.40 | 61231.20 | 3.75 | 3.26 |
| | | S. Ardhjal | 32240.00 | 30950.00 | 79986.2 | 74030.40 | 41746.20 | 37080.40 | 2.48 | 2.39 |
| | | Swarna Shreya | 33325.00 | 31450.00 | 70965.2 | 66386.80 | 37640.20 | 31936.80 | 2.13 | 2.11 |
| | | Swarna Samridhi | 34550.00 | 32850.00 | 81790.4 | 76921.00 | 41240.40 | 37071.00 | 2.37 | 2.34 |
| | | Sahbhagi | 32450.00 | 30725.00 | 59325.2 | 54552.80 | 25875.20 | 19827.80 | 1.83 | 1.78 |
| | | R. Sweta | 34325.00 | 32875.00 | 88755 | 78065.60 | 48430.00 | 38190.60 | 2.59 | 2.37 |
| | Alternate wetting/drying irrigation in rice | R. Sweta | 33250.00 | 32550.00 | 90384.60 | 73933.40 | 49134.60 | 31383.40 | 2.72 | 2.27 |
| | Water harvesting and field bunding in rice | R. Sweta | 34350.00 | 33870.00 | 85825.60 | 74418.40 | 43475.60 | 30548.40 | 2.50 | 2.20 |
| | Nutrient Expert/green seeker based nutrient management/INM in Rice | R. Sweta | 32840.00 | 33460.00 | 87377.60 | 73448.40 | 47022.60 | 30173.40 | 2.66 | 2.20 |
| Maize | Raised Bed planting | | 19300.00 | 22400.00 | 71789.30 | 68498.10 | 52489.30 | 46098.10 | 3.72 | 3.06 |

### 3.3 Achievements on Training (Including the sponsored and FLD training programmes):

## A) 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** | | | | | | | | | | | | | |
| Weed Management | 4 | 17 | 13 | 30 | 8 | 36 | 44 | 0 | 0 | 0 | 25 | 49 | 74 |
| Resource Conservation Technologies | 1 | 44 | 0 | 44 | 10 | 0 | 10 | 0 | 0 | 0 | 54 | 0 | 54 |
| Cropping Systems | 1 | 9 | 1 | 10 | 8 | 0 | 8 | 0 | 0 | 0 | 17 | 1 | 18 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | 1 | 19 | 1 | 20 | 5 | 3 | 8 | 0 | 0 | 0 | 24 | 4 | 28 |
| Water management | 8 | 97 | 4 | 101 | 50 | 0 | 50 | 0 | 0 | 0 | 147 | 4 | 151 |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 3 | 28 | 1 | 29 | 4 | 49 | 53 | 0 | 0 | 0 | 32 | 50 | 82 |
| Integrated Crop Management | 24 | 239 | 15 | 254 | 119 | 271 | 390 | 0 | 0 | 0 | 358 | 286 | 644 |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | 1 | 13 | 0 | 13 | 5 | 0 | 5 | 0 | 0 | 0 | 18 | 0 | 18 |
| Others, (cultivation of crops) | | | | | | | | | | | | | |
| Drudgery Management | 1 | 0 | 4 | 4 | 0 | 23 | 23 | 0 | 0 | 0 | 0 | 27 | 27 |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | 2 | 30 | 5 | 35 | 22 | 2 | 24 | 0 | 0 | 0 | 52 | 7 | 59 |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management | | | | | | | | | | | | | |

| 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 |
| technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post-harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | 7 | 53 | 18 | 71 | 78 | 25 | 103 | 0 | 0 | 0 | 131 | 43 | 174 |
| Poultry Management | 5 | 7 | 20 | 27 | 21 | 88 | 109 | 0 | 0 | 0 | 28 | 108 | 136 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 6 | 46 | 8 | 54 | 28 | 60 | 88 | 0 | 0 | 0 | 74 | 68 | 142 |
| Feed management | 3 | 3 | 4 | 7 | 15 | 51 | 66 | 0 | 0 | 0 | 18 | 55 | 73 |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any Goat farming | 7 | 54 | 14 | 68 | 19 | 85 | 104 | 0 | 0 | 0 | 73 | 99 | 172 |
| Fodder Production | 2 | 12 | 3 | 15 | 7 | 16 | 23 | 0 | 0 | 0 | 19 | 19 | 38 |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | 3 | 0 | 14 | 14 | 0 | 63 | 63 | 0 | 0 | 0 | 0 | 77 | 77 |
| Income generation activities for | | | | | | | | | | | | | |

| 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 |
| empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| 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 | 1 | 32 | 1 | 33 | 3 | 0 | 3 | 0 | 0 | 0 | 35 | 1 | 36 |
| 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 | 1 | 15 | 0 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 17 | 0 | 17 |
| Organic manures production | 3 | 17 | 12 | 29 | 5 | 45 | 50 | 0 | 0 | 0 | 22 | 57 | 79 |
| Production of fry and fingerlings | | | | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | | | | |

| 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 |
| 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 | 3 | 3 | 17 | 20 | 21 | 28 | 49 | 0 | 0 | 0 | 24 | 45 | 69 |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 0 | 2 | 2 | 0 | 23 | 23 | 0 | 0 | 0 | 0 | 25 | 25 |
| Mobilization of social capital | 2 | 32 | 6 | 38 | 6 | 3 | 9 | 0 | 0 | 0 | 38 | 9 | 47 |
| Entrepreneurial development of farmers/youths | 9 | 69 | 37 | 106 | 30 | 78 | 108 | 0 | 0 | 0 | 99 | 115 | 214 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| Production system | 3 | 52 | 0 | 52 | 13 | 0 | 13 | 0 | 0 | 0 | 65 | 0 | 65 |
| **XI. Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **102** | **891** | **200** | **1091** | **479** | **949** | **1428** | **0** | **0** | **0** | **1370** | **1149** | **2519** |

## 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 | | | | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | 1 | 19 | 1 | 20 | 9 | 1 | 10 | 0 | 0 | 0 | 28 | 2 | 30 |
| Production of organic inputs | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | 1 | 27 | 2 | 29 | 3 | 0 | 3 | 0 | 0 | 0 | 30 | 2 | 32 |
| Sheep and goat rearing | 2 | 55 | 2 | 57 | 5 | 0 | 5 | 0 | 0 | 0 | 60 | 2 | 62 |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Enterprise development | 4 | 74 | 13 | 87 | 18 | 6 | 24 | 0 | 0 | 0 | 92 | 19 | 111 |

| 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 |
| 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 | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| TOTAL | **8** | **175** | **18** | **193** | **35** | **7** | **42** | **0** | **0** | **0** | **210** | **25** | **235** |

## 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 | 1 | 31 | 1 | 32 | 9 | 4 | 13 | 0 | 0 | 0 | 40 | 5 | 45 |
| Value addition | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 21 | 0 | 21 | 2 | 0 | 2 | 0 | 0 | 0 | 23 | 0 | 23 |
| Group Dynamics and farmers organization | | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | 1 | 18 | 1 | 19 | 5 | 1 | 6 | 0 | 0 | 0 | 23 | 2 | 25 |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 9 | 0 | 9 | 4 | 0 | 4 | 0 | 0 | 0 | 13 | 0 | 13 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| TOTAL | **4** | **79** | **2** | **81** | **20** | **5** | **25** | **0** | **0** | **0** | **99** | **7** | **106** |

## 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 | 55 | 0 | 55 | 9 | 0 | 9 | 0 | 0 | 0 | 64 | 0 | 64 |
| Resource Conservation Technologies | | | | | | | | | | | | | |
| Cropping Systems | | | | | | | | | | | | | |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Crop Management | 3 | 116 | 0 | 116 | 30 | 0 | 30 | 0 | 0 | 0 | 146 | 0 | 146 |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | 1 | 14 | 0 | 14 | 11 | 0 | 11 | 0 | 0 | 0 | 25 | 0 | 25 |
| Others, (cultivation of crops ) | | | | | | | | | | | | | |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | 2 | 51 | 8 | 59 | 31 | 7 | 38 | 0 | 0 | 0 | 82 | 15 | 97 |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |

| 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 |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post-harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | 2 | 0 | 0 | 0 | 25 | 50 | 75 | 0 | 0 | 0 | 25 | 50 | 75 |
| Poultry Management | 1 | 0 | 0 | 0 | 19 | 12 | 31 | 0 | 0 | 0 | 19 | 12 | 31 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 1 | 5 | 9 | 14 | 4 | 6 | 10 | 0 | 0 | 0 | 9 | 15 | 24 |
| Feed management | 1 | 0 | 4 | 4 | 3 | 18 | 21 | 0 | 0 | 0 | 3 | 22 | 25 |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any Goat farming | | | | | | | | | | | | | |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |

| 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 |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Disease Management | 2 | 26 | 3 | 29 | 18 | 2 | 20 | 0 | 0 | 0 | 44 | 5 | 49 |
| 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** | | | | | | | | | | | | | |

| 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 |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Mobilization of social capital | 2 | 17 | 4 | 21 | 3 | 15 | 18 | 0 | 0 | 0 | 20 | 19 | 39 |
| Entrepreneurial development of farmers/youths | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| Crop production | 1 | 17 | 0 | 17 | 10 | 1 | 11 | 0 | 0 | 0 | 27 | 1 | 28 |
| XI Agro-forestry | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **19** | **301** | **28** | **329** | **163** | **111** | **274** | **0** | **0** | **0** | **464** | **139** | **603** |

## 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 | | | | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Production of organic inputs | 1 | 19 | 2 | 21 | 12 | 1 | 13 | 0 | 0 | 0 | 31 | 3 | 34 |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |

| 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 |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **1** | **19** | **2** | **21** | **12** | **1** | **13** | **0** | **0** | **0** | **31** | **3** | **34** |

## 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 | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| 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 | 6 | 61 | 13 | 74 | 10 | 36 | 46 | 0 | 0 | 0 | 71 | 49 | 120 |
| Resource Conservation Technologies | 1 | 44 | 0 | 44 | 10 | 0 | 10 | 0 | 0 | 0 | 54 | 0 | 54 |
| Cropping Systems | 1 | 9 | 1 | 10 | 8 | 0 | 8 | 0 | 0 | 0 | 17 | 1 | 18 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | 1 | 19 | 1 | 20 | 5 | 3 | 8 | 0 | 0 | 0 | 24 | 4 | 28 |
| Water management | 9 | 108 | 4 | 112 | 57 | 0 | 57 | 0 | 0 | 0 | 165 | 4 | 169 |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 3 | 28 | 1 | 29 | 4 | 49 | 53 | 0 | 0 | 0 | 32 | 50 | 82 |
| Integrated Crop Management | 27 | 355 | 15 | 370 | 149 | 271 | 420 | 0 | 0 | 0 | 504 | 286 | 790 |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | 2 | 27 | 0 | 27 | 16 | 0 | 16 | 0 | 0 | 0 | 43 | 0 | 43 |
| Others, (cultivation of crops ) | | | | | | | | | | | | | |
| Drudgery Management | 1 | 0 | 4 | 4 | 0 | 23 | 23 | 0 | 0 | 0 | 0 | 27 | 27 |
| TOTAL | **51** | **651** | **39** | **690** | **259** | **382** | **641** | **0** | **0** | **0** | **910** | **421** | **1331** |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | | | | | | | | | | | | | |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |

| 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 |
| TOTAL | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | 4 | 81 | 13 | 94 | 53 | 9 | 62 | 0 | 0 | 0 | 134 | 22 | 156 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **4** | **81** | **13** | **94** | **53** | **9** | **62** | **0** | **0** | **0** | **134** | **22** | **156** |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | 9 | 53 | 18 | 71 | 103 | 75 | 178 | 0 | 0 | 0 | 156 | 93 | 249 |
| Poultry Management | 6 | 7 | 20 | 27 | 40 | 100 | 140 | 0 | 0 | 0 | 47 | 120 | 167 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 7 | 51 | 17 | 68 | 32 | 66 | 98 | 0 | 0 | 0 | 83 | 83 | 166 |
| Feed management | 3 | 3 | 4 | 7 | 15 | 51 | 66 | 0 | 0 | 0 | 18 | 55 | 73 |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any (Goat farming) | 7 | 54 | 14 | 68 | 19 | 85 | 104 | 0 | 0 | 0 | 73 | 99 | 172 |
| Fodder Production | 3 | 12 | 7 | 19 | 10 | 34 | 44 | 0 | 0 | 0 | 22 | 41 | 63 |
| TOTAL | **35** | **180** | **80** | **260** | **219** | **411** | **630** | **0** | **0** | **0** | **399** | **491** | **890** |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |

| 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 |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | 3 | 0 | 14 | 14 | 0 | 63 | 63 | 0 | 0 | 0 | 0 | 77 | 77 |
| Income generation activities for empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **3** | **0** | **14** | **14** | **0** | **63** | **63** | **0** | **0** | **0** | **0** | **77** | **77** |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Disease Management | 2 | 26 | 3 | 29 | 18 | 2 | 20 | 0 | 0 | 0 | 44 | 5 | 49 |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **2** | **26** | **3** | **29** | **18** | **2** | **20** | **0** | **0** | **0** | **44** | **5** | **49** |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | 1 | 32 | 1 | 33 | 3 | 0 | 3 | 0 | 0 | 0 | 35 | 1 | 36 |
| 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 | | | | | | | | | | | | | |

| 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 |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **1** | **32** | **1** | **33** | **3** | **0** | **3** | **0** | **0** | **0** | **35** | **1** | **36** |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | 1 | 15 | 0 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 17 | 0 | 17 |
| Organic manures production | 3 | 17 | 12 | 29 | 5 | 45 | 50 | 0 | 0 | 0 | 22 | 57 | 79 |
| 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 | **4** | **32** | **12** | **44** | **7** | **45** | **52** | **0** | **0** | **0** | **39** | **57** | **96** |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | 3 | 3 | 17 | 20 | 21 | 28 | 49 | 0 | 0 | 0 | 24 | 45 | 69 |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 0 | 2 | 2 | 0 | 23 | 23 | 0 | 0 | 0 | 0 | 25 | 25 |
| Mobilization of social capital | 4 | 49 | 10 | 59 | 9 | 18 | 27 | 0 | 0 | 0 | 58 | 28 | 86 |
| Entrepreneurial development of farmers/youths | 9 | 69 | 37 | 106 | 30 | 78 | 108 | 0 | 0 | 0 | 99 | 115 | 214 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| Crop production | 1 | 17 | 0 | 17 | 10 | 1 | 11 | 0 | 0 | 0 | 27 | 1 | 28 |
| Production system | 3 | 52 | 0 | 52 | 13 | 0 | 13 | 0 | 0 | 0 | 65 | 0 | 65 |
| TOTAL | | | | | | | | | | | | | |
| **XI Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| TOTAL | **21** | **190** | **66** | **256** | **83** | **148** | **231** | **0** | **0** | **0** | **273** | **214** | **487** |
| **XII. Others (Pl. specify)** | | | | | | | | | | | | | |
| **TOTAL** | **121** | **1192** | **228** | **1420** | **642** | **1060** | **1702** | **0** | **0** | **0** | **1834** | **1288** | **3122** |

**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 | | | | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | 1 | 19 | 1 | 20 | 9 | 1 | 10 | 0 | 0 | 0 | 28 | 2 | 30 |
| Production of organic inputs | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | 1 | 27 | 2 | 29 | 3 | 0 | 3 | 0 | 0 | 0 | 30 | 2 | 32 |
| Sheep and goat rearing | 2 | 55 | 2 | 57 | 5 | 0 | 5 | 0 | 0 | 0 | 60 | 2 | 62 |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Enterprise development | 4 | 74 | 13 | 87 | 18 | 6 | 24 | 0 | 0 | 0 | 92 | 19 | 111 |
| Others if any (ICT application in agriculture) | | | | | | | | | | | | | |
| TOTAL | **8** | **175** | **18** | **193** | **35** | **7** | **42** | **0** | **0** | **0** | **210** | **25** | **235** |

## 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 | 2 | 50 | 3 | 53 | 21 | 5 | 26 | 0 | 0 | 0 | 71 | 8 | 79 |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 21 | 0 | 21 | 2 | 0 | 2 | 0 | 0 | 0 | 23 | 0 | 23 |
| Group Dynamics and farmers organization | | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | 1 | 18 | 1 | 19 | 5 | 1 | 6 | 0 | 0 | 0 | 23 | 2 | 25 |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 9 | 0 | 9 | 4 | 0 | 4 | 0 | 0 | 0 | 13 | 0 | 13 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification | | | | | | | | | | | | | |
| Others if any | | | | | | | | | | | | | |
| TOTAL | **5** | **98** | **4** | **102** | **32** | **6** | **38** | **0** | **0** | **0** | **130** | **10** | **140** |

*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 |
| **Agronomy** | | | | | | | | | | |
| Agronomy | PF | Weed management in late sown wheat | 1 | OFF | 18 | 0 | 18 | 2 | 0 | 2 |
| Agronomy | PF | Nutrient management in rabi pulses | 1 | ON | 19 | 0 | 19 | 11 | 0 | 11 |
| Agronomy | PF | Organic farming in summer crops | 1 | OFF | 14 | 0 | 14 | 11 | 0 | 11 |
| Agronomy | PF | Package & practices of summer crops | 1 | ON | 17 | 0 | 17 | 11 | 2 | 13 |
| Agronomy | PF | Cultivation of summer maize | 1 | ON | 0 | 0 | 0 | 7 | 18 | 25 |
| Agronomy | PF | Package of practices of summer crops | 1 | ON | 0 | 0 | 0 | 22 | 4 | 26 |
| Agronomy | PF | Integrated farming system | 1 | ON | 19 | 1 | 20 | 5 | 3 | 8 |
| Agronomy | PF | Disease management of lathyrus | 1 | OFF | 12 | 3 | 15 | 9 | 2 | 11 |
| Agronomy | PF | Packages & practices of summer crops | 1 | ON | 17 | 0 | 17 | 11 | 0 | 11 |
| Agronomy | PF | Cultivation of summer moong | 1 | ON | 0 | 0 | 0 | 0 | 26 | 26 |
| Agronomy | PF | Cultivation of summer maize | 1 | ON | 0 | 0 | 0 | 0 | 30 | 30 |
| Agronomy | PF | Packages & practices of summer crops | 1 | ON | 0 | 0 | 0 | 0 | 30 | 30 |
| Agronomy | PF | Packages & practices of mushroom | 1 | ON | 0 | 0 | 0 | 0 | 28 | 28 |
| Agronomy | PF | Packages & practices of summer vegetables | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Agronomy | PF | Packages & practices of mushroom | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Agronomy | PF | Safety measures during Covid-19 pandemic for harvesting & threshing of crop | 1 | ON | 0 | 4 | 4 | 0 | 23 | 23 |
| Agronomy | PF | Nursery raising of paddy | 1 | ON | 0 | 1 | 1 | 0 | 24 | 24 |
| Agronomy | PF | Nursery raising of paddy | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Agronomy | PF | Packages & practices of summer crops | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Agronomy | PF | Seedling management | 1 | ON | 0 | 0 | 0 | 0 | 26 | 26 |
| Agronomy | PF | Packages & practices of sugarcane | 1 | ON | 0 | 0 | 0 | 0 | 18 | 18 |
| Agronomy | PF | Scientific method of nursery raising for paddy | 1 | ON | 28 | 0 | 28 | 4 | 0 | 4 |
| Agronomy | PF | Technique of direct seeded rice | 1 | ON | 44 | 0 | 44 | 10 | 0 | 10 |
| Agronomy | PF | Scientific cultivation of sugarcane | 1 | ON | 12 | 2 | 14 | 0 | 0 | 0 |
| Agronomy | PF | Packages & practices of piegonpea | 1 | ON | 9 | 1 | 10 | 4 | 1 | 5 |
| Agronomy | PF | Water conservation through crop diversification& selection of rice variety | 1 | ON | 15 | 0 | 15 | 6 | 0 | 6 |
| Agronomy | PF | Direct seeded rice to save natural resources | 1 | ON | 6 | 0 | 6 | 8 | 0 | 8 |
| Agronomy | PF | Irrigation management in nursery of paddy | 1 | ON | 6 | 0 | 6 | 8 | 0 | 8 |
| Agronomy | PF | Weed management in nursery of paddy | 1 | ON | 7 | 1 | 8 | 5 | 0 | 5 |
| Agron | PF | Irrigation management in rainfed | 1 | ON | 8 | 2 | 10 | 7 | 0 | 7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| omy | | agriculture | | | | | | | | |
| Agronomy | PF | Cropping system in rainfed agriculture | 1 | ON | 9 | 1 | 10 | 8 | 0 | 8 |
| Agronomy | PF | Scientific method of paddy transplanting | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Agronomy | PF | Scientific cultivation of maize & pigeonpea under Jal Shakti Abhiyan | 1 | ON | 18 | 0 | 18 | 3 | 0 | 3 |
| Agronomy | PF | Scientific method of paddy transplanting | 1 | ON | 0 | 0 | 0 | 0 | 27 | 27 |
| Agronomy | PF | Water management in Kharif crop under Jal Shakti Abhiyan | 1 | ON | 17 | 0 | 17 | 5 | 0 | 5 |
| Agronomy | PF | Weed management in pigeonpea | 1 | ON | 0 | 0 | 0 | 0 | 26 | 26 |
| Agronomy | PF | Package & practices of paddy | 1 | ON | 18 | 0 | 18 | 2 | 1 | 3 |
| Agronomy | PF | Weed management in paddy | 1 | ON | 10 | 2 | 12 | 3 | 1 | 4 |
| Agronomy | PF | Weed management in paddy | 1 | ON | 0 | 10 | 10 | 0 | 9 | 9 |
| Agronomy | PF | Income generation from mushroom production | 1 | ON | 0 | 14 | 14 | 0 | 10 | 10 |
| Agronomy | PF | Water management in paddy under Jal Shakti Abhiyan | 1 | ON | 15 | 0 | 15 | 6 | 0 | 6 |
| Agronomy | PF | Water management in paddy | 1 | ON | 11 | 0 | 11 | 7 | 0 | 7 |
| Agronomy | PF | Productivity enhancement of kharif crops through water management | 1 | ON | 13 | 1 | 14 | 6 | 0 | 6 |
| Agronomy | PF | Irrigated nutrient management in paddy | 1 | ON | 15 | 3 | 18 | 4 | 1 | 5 |
| Agronomy | PF | Integrated disease management in kharif crop | 1 | OFF | 14 | 0 | 14 | 9 | 0 | 9 |
| Agronomy | PF | Popularization of lathyrus | 1 | OFF | 58 | 0 | 58 | 10 | 0 | 10 |
| Agronomy | PF | Package & practices of lathyrus | 1 | ON | 16 | 0 | 16 | 4 | 0 | 4 |
| Agronomy | PF | Scientific cultivation of lathyrus | 1 | ON | 32 | 0 | 32 | 15 | 0 | 15 |
| Agronomy | PF | Irrigation schedule in kharif crops | 1 | ON | 12 | 1 | 13 | 5 | 0 | 5 |
| Agronomy | PF | Package & practices of lathyrus | 1 | ON | 58 | 0 | 58 | 23 | 0 | 23 |
| Agronomy | PF | Package & practices of rabi crops | 1 | ON | 10 | 10 | 20 | 4 | 3 | 7 |
| Agronomy | PF | Package & practices of pulse crops | 1 | ON | 14 | 1 | 15 | 4 | 1 | 5 |
| Agronomy | PF | Biochar production | 1 | ON | 13 | 0 | 13 | 5 | 0 | 5 |
| Agronomy | PF | Integrated nutrient management in wheat | 1 | OFF | 32 | 8 | 40 | 20 | 7 | 27 |
| Agronomy | PF | Weed management in wheat & gram crops | 1 | OFF | 26 | 0 | 26 | 0 | 0 | 0 |
| Agronomy | PF | Package & practices of wheat | 1 | ON | 12 | 1 | 13 | 1 | 9 | 10 |
| Agronomy | PF | Nutrition management in wheat | 1 | ON | 15 | 2 | 17 | 18 | 1 | 19 |
| Agronomy | PF | Package & practices of mustard crop | 1 | OFF | 28 | 0 | 28 | 6 | 0 | 6 |
| Agronomy | PF | Irrigation management in rabi crops | 1 | OFF | 11 | 0 | 11 | 7 | 0 | 7 |
| Agronomy | PF | Cultivation of wheat through zero tillage | 1 | OFF | 30 | 0 | 30 | 14 | 0 | 14 |
| Agronomy | RY | Seed production of rabi crops | 4 | ON | 19 | 1 | 20 | 9 | 1 | 10 |
| Agronomy | EF | Principles of water conservation | 1 | OFF | 19 | 2 | 21 | 12 | 1 | 13 |
| Agronomy | EF | Package & practices of lathyrus | 1 | ON | 31 | 1 | 32 | 9 | 4 | 13 |

| **Extension Education** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ext. Edn. | PF | Availability of markets for sale of agri. Produce | 1 | ON | 11 | 4 | 15 | 3 | 2 | 5 |
| Ext. Edn. | PF | Methods of beekeeping | 1 | ON | 0 | 13 | 13 | 0 | 3 | 3 |
| Ext. Edn. | PF | Methods of beekeeping | 1 | ON | 3 | 0 | 3 | 21 | 2 | 23 |
| Ext. Edn. | PF | Mushroom production technology | 1 | ON | 0 | 3 | 3 | 0 | 22 | 22 |
| Ext. Edn. | PF | Mushroom production technology | 1 | ON | 0 | 5 | 5 | 0 | 23 | 23 |
| Ext. Edn. | PF | Packages & practices of mushroom | 1 | ON | 0 | 0 | 0 | 0 | 28 | 28 |
| Ext. Edn. | PF | Packages & practices of mushroom | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Ext. Edn. | PF | Methods of bee-keeping | 1 | ON | 0 | 4 | 4 | 0 | 23 | 23 |
| Ext. Edn. | PF | Production methods of organic mannure | 1 | ON | 0 | 5 | 5 | 0 | 24 | 24 |
| Ext. Edn. | PF | Production methods of organic mannure | 1 | ON | 0 | 7 | 7 | 0 | 21 | 21 |
| Ext. Edn. | PF | Beekeeping as the means of self employment | 1 | ON | 7 | 0 | 7 | 4 | 0 | 4 |
| Ext. Edn. | PF | Production methods of organic mannure | 1 | ON | 18 | 4 | 22 | 2 | 3 | 5 |
| Ext. Edn. | PF | Entrepreneurship Development through mushroom production technology | 1 | ON | 16 | 3 | 19 | 4 | 0 | 4 |
| Ext. Edn. | PF | Socio-economic upliftment through formation & management of SHG | 1 | ON | 0 | 2 | 2 | 0 | 23 | 23 |
| Ext. Edn. | PF | Soil management to increase water holding capacity by use of vermicompost | 1 | ON | 15 | 0 | 15 | 2 | 0 | 2 |
| Ext. Edn. | PF | Mushroom production as an alteration for water saving | 1 | ON | 9 | 6 | 15 | 4 | 2 | 6 |
| Ext. Edn. | PF | Income generation through button mushroom production | 1 | ON | 19 | 2 | 21 | 3 | 2 | 5 |
| Ext. Edn. | PF | Income generation from mushroom production | 1 | ON | 0 | 14 | 14 | 0 | 10 | 10 |
| Ext. Edn. | PF | Production technology of lathyrus under Azadi ke amrit mahotsav | 1 | OFF | 17 | 0 | 17 | 10 | 1 | 11 |
| Ext. Edn. | PF | Use of ICT in agriculture for increasing yield | 1 | OFF | 0 | 4 | 4 | 0 | 15 | 15 |
| Ext. Edn. | PF | Use of ICT in agriculture for increasing yield | 1 | OFF | 17 | 0 | 17 | 3 | 0 | 3 |
| Ext. Edn. | PF | Mushroom production techniques | 1 | ON | 0 | 0 | 0 | 13 | 16 | 29 |
| Ext. Edn. | PF | Production technologies of mustard and availability of markets for sale of their produce | 1 | ON | 21 | 2 | 23 | 3 | 1 | 4 |
| Ext. Edn. | PF | Package & practices of mustard & organic farming | 1 | ON | 17 | 0 | 17 | 5 | 0 | 5 |
| Ext. Edn. | PF | Package & practices of mustard | 1 | ON | 19 | 0 | 19 | 3 | 0 | 3 |
| Ext. Edn. | PF | Package & practices of mustard | 1 | ON | 14 | 0 | 14 | 8 | 0 | 8 |
| Ext. Edn. | PF | Package & practices of mustard | 1 | ON | 19 | 0 | 19 | 2 | 0 | 2 |
| Ext. Edn. | RY | Mushroom production technology | 6 | ON | 25 | 1 | 26 | 4 | 0 | 4 |
| Ext. Edn. | RY | Self-employment through beekeeping | 4 | ON | 13 | 6 | 19 | 5 | 5 | 10 |
| Ext. Edn. | RY | Income generation through mushroom production | 6 | ON | 16 | 1 | 17 | 5 | 0 | 5 |
| Ext. Edn. | RY | Mushroom production technology | 6 | ON | 20 | 5 | 25 | 4 | 1 | 5 |
| Ext. | EF | Motivating rural youth for self- | 1 | ON | 21 | 0 | 21 | 2 | 0 | 2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Edn. | | employment through mushroom production | | | | | | | | |
| Ext. Edn. | EF | Motivating rural youth for self-employment through vermicomposting | 1 | ON | 9 | 0 | 9 | 4 | 0 | 4 |
| **Animal Science** | | | | | | | | | | |
| Ani. Sci. | PF | Management of cattle in winter | 1 | OFF | 0 | 0 | 0 | 0 | 26 | 26 |
| Ani. Sci. | PF | Management of cattle in winter | 1 | OFF | 0 | 0 | 0 | 25 | 24 | 49 |
| Ani. Sci. | PF | Income generation through backyard poultry | 1 | OFF | 0 | 0 | 0 | 19 | 12 | 31 |
| Ani. Sci. | PF | Small scale goat farming | 1 | ON | 1 | 1 | 2 | 7 | 16 | 23 |
| Ani. Sci. | PF | Treatment of straw with urea | 1 | ON | 0 | 0 | 0 | 7 | 26 | 33 |
| Ani. Sci. | PF | Clean milk production | 1 | ON | 2 | 6 | 8 | 12 | 7 | 19 |
| Ani. Sci. | PF | Management of FMD in dairy animals | 1 | ON | 1 | 2 | 3 | 11 | 2 | 13 |
| Ani. Sci. | PF | Income generation through backyard poultry | 1 | ON | 5 | 3 | 8 | 15 | 14 | 29 |
| Ani. Sci. | PF | Small scale goat farming | 1 | ON | 0 | 0 | 0 | 0 | 25 | 25 |
| Ani. Sci. | PF | Disease management in goat | 1 | ON | 0 | 0 | 0 | 0 | 29 | 29 |
| Ani. Sci. | PF | Management of cattle in summer | 1 | ON | 4 | 3 | 7 | 13 | 4 | 17 |
| Ani. Sci. | PF | Backyard poultry farming | 1 | ON | 0 | 8 | 8 | 0 | 17 | 17 |
| Ani. Sci. | PF | Small scale goat farming | 1 | ON | 0 | 6 | 6 | 0 | 19 | 19 |
| Ani. Sci. | PF | Clean milk production | 1 | ON | 17 | 3 | 20 | 2 | 0 | 2 |
| Ani. Sci. | PF | Small scale goat farming | 1 | ON | 18 | 2 | 20 | 3 | 0 | 3 |
| Ani. Sci. | PF | Dairy as the means of self-employment | 1 | ON | 21 | 3 | 24 | 4 | 0 | 4 |
| Ani. Sci. | PF | Management of common disease of goat | 1 | ON | 16 | 2 | 18 | 7 | 1 | 8 |
| Ani. Sci. | PF | Backyard poultry farming | 1 | ON | 0 | 3 | 3 | 0 | 25 | 25 |
| Ani. Sci. | PF | Calculation of balanced ration for dairy animals | 1 | ON | 0 | 4 | 4 | 0 | 23 | 23 |
| Ani. Sci. | PF | Fish farming | 1 | ON | 32 | 1 | 33 | 3 | 0 | 3 |
| Ani. Sci. | PF | Management of infertility in dairy animals | 1 | ON | 23 | 1 | 24 | 2 | 1 | 3 |
| Ani. Sci. | PF | Management of HS & BQ in cattle | 1 | ON | 5 | 9 | 14 | 4 | 6 | 10 |
| Ani. Sci. | PF | Disease management in dairy animals | 1 | ON | 0 | 4 | 4 | 0 | 22 | 22 |
| Ani. Sci. | PF | Disease management in goat | 1 | ON | 0 | 2 | 2 | 0 | 24 | 24 |
| Ani. Sci. | PF | Disease management in goat | 1 | ON | 19 | 1 | 20 | 2 | 0 | 2 |
| Ani. Sci. | PF | Fodder production round the year | 1 | ON | 12 | 1 | 13 | 7 | 0 | 7 |
| Ani. Sci. | PF | Disease management in cattle | 1 | ON | 22 | 1 | 23 | 1 | 0 | 1 |
| Ani. Sci. | PF | Income generation through backyard poultry farming | 1 | ON | 0 | 3 | 3 | 0 | 22 | 22 |
| Ani. Sci. | PF | Fodder production round the year | 1 | ON | 0 | 2 | 2 | 0 | 16 | 16 |
| Ani. Sci. | PF | Management of FMD in livestock | 1 | ON | 0 | 0 | 0 | 14 | 6 | 20 |
| Ani. | PF | Management of livestock in winter | 1 | ON | 0 | 0 | 0 | 22 | 2 | 24 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sci. | | | | | | | | | | |
| Ani. Sci. | PF | Fodder production round the year | 1 | OFF | 0 | 4 | 4 | 3 | 18 | 21 |
| Ani. Sci. | PF | Backyard poultry farming | 1 | ON | 2 | 3 | 5 | 6 | 10 | 16 |
| Ani. Sci. | PF | Management of cattle in winter season | 1 | ON | 0 | 2 | 2 | 13 | 8 | 21 |
| Ani. Sci. | PF | Management of cattle in winter season | 1 | ON | 9 | 1 | 10 | 12 | 4 | 16 |
| Ani. Sci. | PF | Method of calculation of balance ratio in cattle | 1 | ON | 3 | 0 | 3 | 8 | 2 | 10 |
| Ani. Sci. | RY | Entrepreneurship development in goat farming | 4 | ON | 19 | 1 | 20 | 2 | 0 | 2 |
| Ani. Sci. | RY | Goat management | 3 | ON | 36 | 1 | 37 | 3 | 0 | 3 |
| Ani. Sci. | RY | Dairy management | 5 | ON | 27 | 2 | 29 | 3 | 0 | 3 |

## H) Vocational 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Male | Female | Total | Type of units | Number of units | Number of persons employed | |
| Agronomy | Seed Production | Seed production of rabi crops | 4 | 28 | 2 | 30 | | | | |
| Mushroom production | Entrepreneurship development | Mushroom production technology | 6 | 29 | 1 | 30 | | | | |
| Bee keeping | Bee keeping | Self-employment through beekeeping | 4 | 18 | 11 | 29 | | | | |
| Mushroom production | Entrepreneurship development | Income generation through mushroom production | 6 | 21 | 1 | 22 | | | | |
| Mushroom production | Entrepreneurship development | Mushroom production technology | 6 | 24 | 6 | 30 | | | | |
| Livestock | Goat farming | Entrepreneurship development in goat farming | 4 | 21 | 1 | 22 | | | | |
| Livestock | Goat farming | Goat management | 3 | 39 | 1 | 40 | | | | |
| Livestock | Dairy management | Dairy management | 5 | 30 | 2 | 32 | | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Male | Female | Total | Type of units | Number of units | Number of persons employed | |
| Agronomy | Seed Production | Seed production of rabi crops | 4 | 28 | 2 | 30 | | | | |
| Mushroom production | Entrepreneurship development | Mushroom production technology | 6 | 29 | 1 | 30 | | | | |
| Bee keeping | Bee keeping | Self-employment through beekeeping | 4 | 18 | 11 | 29 | | | | |
| Mushroom production | Entrepreneurship development | Income generation through mushroom production | 6 | 21 | 1 | 22 | | | | |
| Mushroom production | Entrepreneurship development | Mushroom production technology | 6 | 24 | 6 | 30 | | | | |
| Livestock | Goat farming | Entrepreneurship development in goat farming | 4 | 21 | 1 | 22 | | | | |
| Livestock | Goat farming | Goat management | 3 | 39 | 1 | 40 | | | | |
| Livestock | Dairy management | Dairy management | 5 | 30 | 2 | 32 | | | | |

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

# I) Sponsored Training Programmes

| S. N. | Title | Thematic area | Month | Duration (days) | Client | No. of courses | No. of Participants | | | | | | | | | | Sponsoring Agency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Male | | | Female | | | Total | | | | |
| | | | | | PF/RY/EF | | Others | SC | ST | Others | SC | ST | Others | SC | ST | Total | |
| 1. | Cropping system in Gaya district | Cropping system | Jan | 1 | PF | 1 | 17 | 1 | 0 | 3 | 0 | 0 | 20 | 1 | 0 | 21 | ATMA |
| 2. | Organic fertilizer production | INM | Jan | 1 | PF | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | ATMA |
| 3. | Production technology of oilseeds + pulses | Cropping system | Jan | 1 | PF | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | ATMA |
| 4. | Training on SREP preparation of the district | Crop production | Feb | 1 | PF | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 24 | ATMA |
| 5. | Training on SREP preparation of the district | Crop production | Feb | 1 | PF | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 24 | ATMA |
| 6. | Control of fall army worm | IDM | Feb | 1 | PF | 1 | 27 | 0 | 0 | 1 | 0 | 0 | 28 | 0 | 0 | 28 | JDA, Gaya |
| 7. | Farmers scientist interaction | Crop production | Mar | 1 | PF | 1 | 0 | 35 | 0 | 5 | 0 | 0 | 5 | 35 | 0 | 40 | ATMA |
| 8. | Weed management in summer crops | Weed management | Mar | 1 | PF | 1 | 0 | 35 | 0 | 5 | 0 | 0 | 5 | 35 | 0 | 40 | ATMA |
| 9. | Package & practices of maize, jawar & bajra | Cropping system | June | 1 | PF | 1 | 12 | 0 | 0 | 1 | 0 | 0 | 13 | 0 | 0 | 13 | ATMA |
| 10. | Raised bed sowing of arhar & maize | Cropping system | July | 1 | PF | 1 | 26 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | ATMA |
| 11. | Farmers scientists interaction: advanced agricultural technology in liew of changing climate | Crop production | July | 1 | PF | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 28 | ATMA |
| 12. | Weed management in paddy | Weed management | July | 1 | PF | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 21 | ATMA |
| 13. | Kisan Vaigyanik Vartalap (Jalvayu anukul kheti) | Crop production | July | 1 | PF | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 25 | ATMA |
| 14. | Seed production technique | Seed Production | July | 1 | PF | 1 | 55 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 55 | ATMA |
| 15. | Goat management | Goat management | Aug | 1 | PF | 1 | 50 | 20 | 0 | 8 | 0 | 0 | 58 | 20 | 0 | 78 | ATMA |
| 16. | Cyber extension concept, source of agri. Information | ICT | Aug | 1 | PF | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | ATMA, Gaya |
| 17. | Integrated nutrient management in paddy | INM | Aug | 1 | PF | 1 | 15 | 1 | 0 | 2 | 0 | 0 | 17 | 1 | 0 | 18 | ATMA |
| 18. | Rabi Maha Abhiyaan | Crop production | Oct | 1 | PF | 1 | 2 | 0 | 0 | 19 | 12 | 0 | 21 | 12 | 0 | 33 | ATMA, Gaya |
| 19. | Package & practices of rabi crops | Cropping system | Oct | 1 | PF | 1 | 27 | 0 | 0 | 4 | 26 | 0 | 31 | 26 | 0 | 57 | ATMA, Gaya |
| 20. | Rabi Maha Abhiyaan | Crop production | Oct | 1 | PF | 1 | 15 | 0 | 0 | 3 | 41 | 0 | 18 | 41 | 0 | 59 | ATMA, Gaya |
| 21. | Management of paddy straw | Crop production | Oct | 1 | PF | 1 | 19 | 0 | 0 | 6 | 20 | 0 | 25 | 20 | 0 | 45 | ATMA, Gaya |
| 22. | District level rabi workshop | Crop production | Oct | 1 | PF | 1 | 72 | 0 | 0 | 10 | 172 | 0 | 82 | 172 | 0 | 254 | ATMA, Gaya |
| 23. | Weather forecasting and role of temperature in rabi crops | Cropping system | Dec | 1 | PF | 1 | 37 | 3 | 0 | 5 | 0 | 0 | 42 | 3 | 0 | 45 | COMFED |
| 24. | Integrated crop management | ICM | Dec | 1 | PF | 1 | 25 | 0 | 0 | 2 | 0 | 0 | 27 | 0 | 0 | 27 | ATMA |
| 25. | Use of nano liquid urea | INM | Dec | 1 | PF | 1 | 26 | 0 | 0 | 3 | 0 | 0 | 29 | 0 | 0 | 29 | ATMA |
| 26. | Package & practices of sugarcane | Cropping system | Dec | 1 | PF | 1 | 28 | 0 | 0 | 3 | 0 | | 31 | 0 | 0 | 31 | Sugarcane department |

## 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 | 11 | 708 | 136 | 844 | 35 | 6 | 1 | 7 | 714 | 137 | 851 |
| Kisan Mela | 1 | 50 | 0 | 50 | 100 | 0 | 0 | 0 | 50 | 0 | 50 |
| Kisan Ghosthi | 1 | 52 | 0 | 52 | 21 | 0 | 0 | 0 | 52 | 0 | 52 |
| Exhibition | 0 | 18 | 5 | 23 | 0 | 0 | 0 | 0 | 18 | 5 | 23 |
| Film Show | 0 | 23 | 3 | 26 | 0 | 0 | 0 | 0 | 23 | 3 | 26 |
| Method Demonstrations | 12 | 168 | 36 | 204 | 0 | 6 | 4 | 10 | 174 | 40 | 214 |
| Farmers Seminar | 13 | 783 | 954 | 1737 | 33 | 26 | 12 | 38 | 809 | 966 | 1775 |
| Workshop | 2 | 34 | 8 | 42 | 14 | 2 | 0 | 2 | 36 | 8 | 44 |
| Group meetings | 1 | 3 | 26 | 29 | 69 | 0 | 2 | 2 | 3 | 28 | 31 |
| Lectures delivered as resource persons | 26 | 863 | 331 | 1194 | 22 | 79 | 14 | 93 | 942 | 345 | 1287 |
| Advisory Services | 8372 | 6832 | 1359 | 8191 | 33 | 113 | 21 | 134 | 6945 | 1380 | 8325 |
| Scientific visit to farmers field | 490 | 956 | 192 | 1148 | 25 | 3 | 0 | 3 | 959 | 192 | 1151 |
| Farmers visit to KVK | 3331 | 2380 | 710 | 3090 | 31 | 196 | 36 | 232 | 2576 | 746 | 3322 |
| Diagnostic visits | 26 | 94 | 16 | 110 | 16 | 3 | 1 | 4 | 97 | 17 | 114 |
| Exposure visits | 35 | 1666 | 797 | 2463 | 21 | 196 | 8 | 204 | 1862 | 805 | 2667 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal Health Camp | 2 | 34 | 4 | 38 | 18 | 0 | 0 | 0 | 34 | 4 | 38 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mahila Mandals Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Programmes (specify) | 29 | 492 | 265 | 757 | 21 | 12 | 2 | 14 | 504 | 267 | 771 |
| Sankalp Se Siddhi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Swatchta Hi Sewa | 8 | 121 | 32 | 153 | 16 | 3 | 1 | 4 | 124 | 33 | 157 |
| Any Other (Specify) | | | | | | | | | | | |
| Total | **12360** | **15277** | **4874** | **20151** | | **645** | **102** | **747** | **15922** | **4976** | **20898** |

## B. Other Extension activities

| Nature of Extension Activity | No. of activities |
|---|---|
| Newspaper coverage | 68 |
| Radio talks | 3 |
| TV talks | 2 |
| Popular articles | 7 |
| Extension Literature | 8 |
| Other, if any | |

## C. Celebration of important days

| Celebration of Important Days | No. of activities | Farmers | | | | Extension Officials | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | Total | SC/ ST (% of total) | M | F | Total | M | F | Total |
| Republic day (26th Jan.) | 1 | 27 | 7 | 34 | 12 | 0 | 0 | 0 | 27 | 7 | 34 |
| International Women's Day (8th Mar.) | 1 | 9 | 88 | 97 | 69 | 4 | 0 | 4 | 13 | 88 | 101 |
| Ambedkar Jayanti (14th Apr.) | 1 | 11 | 1 | 12 | 25 | 0 | 0 | 0 | 11 | 1 | 12 |
| International Yoga Day (21st Jun.) | 1 | 18 | 5 | 23 | 0 | 0 | 0 | 0 | 18 | 5 | 23 |
| Independence Day (15th Aug.) | 1 | 23 | 3 | 26 | 12 | 0 | 0 | 0 | 23 | 3 | 26 |
| Parthenium Awareness Week (16th to 22nd Aug.) | 7 | 103 | 13 | 116 | 10 | 0 | 0 | 0 | 103 | 13 | 116 |
| Hindi Diwas (14th Sep.) | 1 | 17 | 4 | 21 | 19 | 0 | 0 | 0 | 17 | 4 | 21 |
| Gandhi Jayanti (2nd Oct.) | 1 | 16 | 2 | 18 | 11 | 0 | 0 | 0 | 16 | 2 | 18 |
| Mahila Kisan Diwas (15th Oct.) | 1 | 0 | 59 | 59 | 44 | 0 | 2 | 2 | 0 | 61 | 61 |
| World Food Day (16th Oct.) | 1 | 31 | 1 | 32 | 28 | 0 | 0 | 0 | 31 | 1 | 32 |
| Vigilance Awareness Week (27th Oct. to 2nd Nov.) | 7 | 89 | 13 | 102 | 7 | 2 | 0 | 2 | 91 | 13 | 104 |
| National Unity Day (31st Oct.) | 1 | 16 | 1 | 17 | 6 | 0 | 0 | 0 | 16 | 1 | 17 |
| World Science Day (10th Nov.) | 1 | 19 | 3 | 22 | 9 | 0 | 0 | 0 | 19 | 3 | 22 |
| National Education Day (11th Nov.) | 1 | 23 | 1 | 24 | 8 | 0 | 0 | 0 | 23 | 1 | 24 |
| National Constitution Day (26th Nov.) | 1 | 15 | 18 | 33 | 21 | 1 | 0 | 1 | 16 | 18 | 34 |
| World Soil Day (5th Dec.) | 1 | 28 | 46 | 74 | 46 | 2 | 0 | 2 | 30 | 46 | 76 |
| Kisan Diwas (23rd Dec.) | 1 | 47 | 0 | 47 | 15 | 3 | 0 | 3 | 50 | 0 | 50 |

## D. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

| Sl. | Date of event | Name of Event/Programme | Interaction of Hon'ble PM/AM | Participants | | | |
|---|---|---|---|---|---|---|---|
| | | | | Farmers | Staffs | VIP/Others | Total |
| 1. | 10/02/2021 | Live telecast of National Horticulture Fair | Interaction of Hon'ble PM | 67 | 11 | 0 | 78 |
| 2. | 09/08/2021 | Live telecast of Hon'ble PM on the occasion of release of 9th installment of PM Kisan Samman Nidhi | Interaction of Hon'ble PM | 37 | 9 | 0 | 46 |
| 3. | 28/09/2021 | Live telecast programme of Hon'ble PM on climate resilient varieties, technology and practices | Interaction of Hon'ble PM | 249 | 18 | 8 | 275 |
| 4. | 16/12/2021 | Valedictory function of Conference on "Natural Farming (Zero Budget Natural Farming)" | Interaction of Hon'ble PM & AM | 402 | 14 | 4 | 420 |

## 3.5 a. Production and supply of Technological products

***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 | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | SC | ST | Other | Total |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total | | | | | | | | |

***KVK farm***

| Crop | Variety | Quantity of seed (q) | Value (Rs) | Number of farmers to whom seed provided | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Paddy | R. Sweta | 176.1 | 7,10,741.00 | 24 | 0 | 112 | 136 |
| | Ardhjal | 8.27 | 29,772.00 | 0 | 0 | 6 | 6 |
| Moong | IPM – 02 - 03 | 1.97 | 35,505.00 | | | | |
| Lentil | HUL - 57 | 0.76 | 7,980.00 | | | | |
| Chickpea | GCP - 105 | 4.36 | 45,780.00 | | | | |
| Wheat | S. Shrestha | 34.0 | 1,59,800.00 | | | | |
| | DBW – 187 | 41.9 | 1,96,930.00 | | | | |
| | HD – 2967 | 8.8 | 35,200.00 | | | | |
| Grand Total | | 276.16 | 12,21,708.00 | | | | |

## Production of planting materials by the KVKs

| Crop | Variety | No. of planting materials | Value (Rs) | Number of farmers to whom planting material provided | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| **Vegetable seedlings** | | | | | | | |
| Cauliflower | | | | | | | |
| Cabbage | | | | | | | |
| Tomato | | | | | | | |
| Brinjal | | | | | | | |
| Chilli | | | | | | | |
| Onion | | | | | | | |
| Others (Drumstick) | | 7000 | 1,40,000.00 | | | | |
| **Fruits** | | | | | | | |
| Mango | | | | | | | |
| Guava | | | | | | | |
| Lime | | | | | | | |
| Papaya | | 1938 | 38,760.00 | | | | |
| Banana | | | | | | | |
| Others | | | | | | | |
| **Ornamental plants** | | | | | | | |
| Medicinal and Aromatic | | | | | | | |
| Plantation | | | | | | | |
| Spices | | | | | | | |
| Turmeric | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Tuber | | | | | | | |
| Elephant yams | | | | | | | |
| Fodder crop saplings | | | | | | | |
| Forest Species | | | | | | | |
| Others, pl.specify | | | | | | | |
| Total | | **8938** | **1787760** | | | | |

**Production of Bio-Products**

| Name of product | Quantity Kg | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|
| | | | SC | ST | Other | Total |
| Bio-fertilizers | | | | | | |
| Bio-pesticide | | | | | | |
| Bio-fungicide | | | | | | |
| Bio-agents | | | | | | |
| Others, please specify. (Vermi-Compost) | 500 | - | | | | |
| Total | | | | | | |

**Production of livestock materials**

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Dairy animals | | | | | | | |
| Cows | | | | | | | |
| Buffaloes | | | | | | | |
| Calves | | | | | | | |
| Others (Pl. specify) | | | | | | | |
| Small ruminants | | | | | | | |
| Sheep | | | | | | | |
| Goat | Black Bengal | 11 | 12672.00 | | | | |
| Other, please specify | | | | | | | |
| Poultry | | | | | | | |
| Broilers | | | | | | | |
| Layers | | | | | | | |
| Duals (broiler and layer) | | | | | | | |
| Japanese Quail | | | | | | | |
| Turkey | | | | | | | |
| Emu | | | | | | | |
| Ducks | | | | | | | |
| Others (Pl. specify) | | | | | | | |
| Piggery | | | | | | | |
| Piglet | | | | | | | |
| Hog | | | | | | | |
| 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"***

**NA**

i) Name of Seed Hub Centre:

| | |
|---|---|
| Name of Nodal Officer : | |
| Address : | |
| e-mail : | |
| Phone No. :<br>Mobile : | |

ii) Quality Seed Production Reports

| Season | Crop | Variety | Production (q) | | | |
|---|---|---|---|---|---|---|
| | | | Target | Area sown (ha) | Production | Category of Seed (F/S, C/S) |
| Kharif 2021 | | | | | | |
| | | | | | | |
| Rabi 2021 | | | | | | |
| | | | | | | |
| Summer/Spring 2021 | | | | | | |

iii) Financial Progress

| Fund received (2016-17, 2017-18, 2019, 2020 and 2021) | Expenditure (Rs. in lakhs) | | Unspent balance (Rs. in lakhs) | Remarks |
|---|---|---|---|---|
| | Infrastructure | Revolving fund | | |
| 2016-17 | | | | |
| 2017-18 | | | | |
| 2019 | | | | |
| 2020 | | | | |
| 2021 | | | | |

iv) Infrastructure Development

| 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 | | | | |
| Bulletins | | | | |
| News letter | | | | |
| Popular Articles | | | | |
| Book Chapter | | | | |
| Extension Pamphlets/ literature | | | | |
| Technical reports | | | | |
| Electronic Publication (CD/DVD etc) | | | | |
| TOTAL | | | | |

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. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |

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

Success story – 1

**Shyam Kumar Mehta**

| | |
|---|---|
| Name of farmer | Shyam Kumar Mehta |
| Address | Village: Baradih, Panchayat: Baragandhar<br>Block: Manpur, District: Gaya |
| Contact details (Phone, mobile, email Id) | Mob. No. 9934092112<br>E-mail ID: smehta.gaya@gmail.com |
| Landholding (in ha.) | 5 ha |
| Educational Qualification | Graduate |
| Name and description of the farm/ enterprise | There goes an adage courage to pursue facilitates in realizing dreams. Shri Shyam Kumar Mehta is a case in point. It is his courage to pursue and diversify that has made life different for him. Having started as a normal farmer he decided to continue his career in farming in an innovative way. He contacted scientists of Krishi Vigyan Kendra, Manpur, Gaya and discussed about the modern farming systems adopting which he can become an agriculture entrepreneur. Scientists advised him to start Integrated Farming System on his own farm land which he gets in his ancestry. Integrated Farming System is a farming system with simultaneous activities involving crop and animal. The main purpose of integrated farming is so that the farming components support one another; hence, reducing external inputs. In other form, Integrated Farming System is a collection of several enterprises including crops, livestock, fishery, dairy etc. in such a way that product of one enterprise can be used as an input for other enterprise, thus saving the cost of cultivation in whole. This system can generate whole year earning of money up to 25 lakhs in a year.<br>His journey to success partnered by KVK, Manpur, Gaya. For Shyam Mehta, the technical knowhow and support extended by the institution proved significant in his success. He had been first trained in fish farming thoroughly during 2014. He got a chance to meet a successful fish farmer of his own district during an exposure visit conducted by KVK, Manpur, Gaya. He keenly observed the fish farming practices done by the farmer. After, completion of training and exposure visit, KVK scientist encouraged him to do the fish farming. Initially being a conventional farmer, he started fish farming in a 3.0 acre pond and applied his knowledge and experience he gained during training. He excavated the soil from 3.0 acre area and thus now he own a medium sized pond. Along with fish farming he also started vegetable and fruit cultivation in 1 acre, dairy with 5 |

| | |
|---|---|
| | cows, biogas plant and vermi-compost unit using cow dung. He earned handsome money of 15 lakhs from fish farming, 1 lakhs from fruits and vegetable farming, 2 lakhs from dairy, 1.0 lakh from vermicompost and 6.0 lakhs from cultivation of major crops prevalent in the region which sumps up to 25 lakhs rupees per annum.<br>Having succeeded in doubling his income from Rs 10 lakhs per annum to 25 lakhs by adopting Integrated farming system, he is now looking forward to further increase his income in coming years. Now, he wants to extend the area under Integrated farming and he also want to start cultivation of some medicinal crops to increase his income. The team scientists of KVK, Manpur, Gaya is eager to support and cooperate such and innovative farmers like Shyam Kumar Mehta and wishes him all the luck in his future endeavor. |
| Economic impact | Fish Farming- 15 lakhs<br>Fruits & Vegetables- 1.0 lakh<br>Dairy- 1.0 Lakh<br>Vermicompost- 1.0 lakh<br>Crops- 6.0 lakhs |
| Social impact | Mr. Shyam Mehta is an inspiration to the local farmers and about 1000 farmers get benefitted directly or indirectly by his farm enterprise. |
| Environmental impact | Biogas plant, Use of Vermicompost as Biofertilizer, Use of Cow urine as insecticide |
| Horizontal/ Vertical spread | Looking after the success of Mr. Shyam Mehta other villagers also started fish farming and farmers from other parts of the districts visit his farm and takes technical advice.<br>In dairy he is taking high milk yielding Gir Breed. Looking after him other farmers also started dairy farming as an enterprise as a source of income. |

**Fish Farming**

**Dairy Farming**

**Biogas Plant**

**Turmeric Cultivation**

Success story – 2

## Subodh Kumar Singh

| | |
|---|---|
| Name of farmer | Subodh Kumar Singh |
| Address | Village - Kharkhura, Panchayat: Kujapi Block – Nagar, Distt. - Gaya |
| Contact details (Phone, mobile, email Id) | |
| Landholding (in ha.) | 2.0 acres |
| Educational qualification: | BA, LLB |
| Name and description of the farm/ enterprise | Magadh Dairy<br>Subodh Kumar Singh, a successful dairy farmer of Gaya district has no remorse have taken up dairy farming as livelihood occupation leaving secured job opportunity in government sector. At this juncture of life when he has established himself firmly in dairy business and has nothing to look back, Singh is proud of having taken right decision in appropriate time.<br>Driven by entrepreneurial knack it was in 1998 he started dairy farming with three cows. At present he has 100 cows and 25 buffaloes. In fact, Singh had no previous experience of dairy farming apart from the fact his family used to rear few cows to meet milk requirement of family members.<br>Though he had no specific choice related to livelihood occupation while he was studying however, he had entrepreneurship somewhere in back of his mind. As majority of his family members were employed in organized sector there was parental pressure on him to look for job opportunity in government sector.<br>Singh who engaged himself in preparation of competitive examination managed to crack some of the examinations between 1995 and 1998 including examination held for post of assistant commandant in CRPF and PWI (Permanent Way Inspector) in railways.<br>However, he did not take up jobs for which he was selected and finally decided to pursue his desire of becoming entrepreneur. Singh started dairy farming in 1998 at village Kujapi located close to village Kharkhura where he resides with his family.<br>He started dairy project with three cows owned by his family. The one bigha land belonging to family of Singh at village Kujapi was used by him for establishing dairy. Assisted by Shashi Ranjan Singh, his younger brother he started the venture.<br>In fact, training opportunity in dairy farming provided to Singh by Krishi Vigyan Kendra (KVK) primarily contributed in his decision to start dairy farming as livelihood occupation. Looking for a trade that could help establish him as successful entrepreneur, Singh could firmly decide about starting dairy business following KVK training.<br>The KVK also extended him required technical and scientific support in starting the venture. The handholding support of KVK for Singh is continuing since he started his project. His previous experience of looking after cows owned by his family helped Singh in establishing his venture.<br>After starting with three cows in 1998 he subsequently purchased 10 more cows. Rolling his profit earning Singh kept on increasing number of cows and buffaloes and also procured machines and gadgets needed for scientific management of dairy farm.<br>The cattle stock of Singh includes HF cross, Jersey cross, Sahiwal and Red Sindhi breeds. He also has a breeding bull of HF breed for upgrading his low productive cows. Dairy farm of Singh has required facility of artificial insemination and providing first aid to cattle stock in case of need. |

| | |
|---|---|
| | He has conceived unique number system for maintaining pedigree of his cattle stock. The number system conceived by Singh has proved useful for him in carrying out practices essential for scientific management of dairy. He has installed CCTV cameras in his dairy for proper management of diary activities.<br>Further there is central milking, chiller machine and fogging machine in dairy farm of Singh. Use of machines in preparation of balanced feed for cattle stock in his farm has helped him improve quality milk and thereby increased his profitability.<br>On an average 800-900 litres of milk is produced daily at dairy farm of Singh. Of total milk produced in his diary nearly 250 litres are supplied door to door in 150 households of Gaya town located at radius of eight kilometres from his diary. The remaining milk is supplied in bulk to food outlets, hotels and restaurants.<br>Singh also produces nearly 30 kilogram of paneer in his dairy for supply to food outlets, hotels and restaurants. In order to ensure purchasers could be reached milk safely maintaining quality and required temperature he uses container made of thick gauge metal. |
| Economic impact | Singh has provided employment including permanent and part time employment to total 14 people for diary works and milk supply. Singh on an average registers' gross turnover of Rs 70 lakh per annum from diary business. He looks forward to establishing milk chilling plant in future besides launch milk products with brand name of his diary. |
| Social impact | Singh received national dairy award in 2011 for his devotion and hard work in field of dairy farming. His hard work has been also acknowledged at university level. Singh was given best farmer award in past at Kisan Mela held in university. |
| Environmental impact | Use of Vermicompost as Biofertilizer and Biogas plant, |
| Horizontal/ Vertical spread | Looking after the success of Mr. Subodh, other villagers also started dairy farming and farmers from other parts of the district visited his farm and takes technical advice. |

**DAIRY FARM**

**MILKING MACHINE**

**MILK CHEALER**

**VERMI-COMPOST UNIT**

**BIOGAS UNIT**

**RECEIVING AWARD**

Success story – 3

## Chandan Kumar

| | |
|---|---|
| Name of farmer | Sri Chandan Kumar |
| Address | Village - Bataspur, Block – Bodhgaya, Gaya |
| Landholding (in ha.) | 2.0 acres |

Sri Chandan Kumar a small farmer and graduate of village - Bataspur, Block – Bodhgaya of Gaya District. After completion of his graduation, he started preparation for competitive examinations to get Gov. job for which he tried level his best to get success. But all his efforts went into vain. Lastly, he thought of engaging himself in farming on his parental land of 3.0 acres and started his journey with cultivating traditional crops paddy, wheat in 2.0 acres having low production of 25 qt & 18.6 qt respectively and a desi breed cow. That time he used to get annual income of Rs. 72795 from paddy, Wheat, cow, etc. He faced problems like unavailability of markets, lack of improved seeds, improved breeds, etc. He was not able to meet out all requirement of his family. One day he visited KVK, Manpur and discussed his problems with the scientists of the center. He was advised to go for crop diversification and also adopt improved seeds/breeds in order to increase his income. Thereafter, he took training in various crops, enterprises and cattle especially in goat farming and also got exposure from other line departments of the district. He started cultivation other than traditional crops also like vegetables on commercial basis. Presently, with adoption of scientific production technologies not only production increased considerably in paddy by 24.80 % and wheat by 39.78% but also but also increased his income by 108.6% and 102.3% respectively. In addition, he also started cultivating vegetables like brinjal, bitter gourd, bottle gourd, etc in 0.5 ha. each in scientific way. He also increased no. of cows to 4 with 2 cross breeds and goat farming (10 No). With these interventions, presently he is earning a total annual income of Rs 321492. In addition, there is cost saving of Rs. 36000 in the production of paddy, wheat, vegetables, cow, goat, etc. In this way Sri kumar has really increased his annual income considerably and he is happy with the farming.

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

| Sl. No. | Name/ Title of the technology | Name/ Details of the Innovator(s) | Brief details of the Innovative Technology |
|---|---|---|---|
| 1 | Zero tillage in wheat | Dr. Rajeev Singh | |
| 2 | Happy Seeder | Dr. Rajeev Singh | |
| 3 | Zero tillage in lentil | Mr. Devendra Mandal | |
| 4 | Zero tillage in mustard | Dr. Ashok Kumar | |
| 5 | Feeding of UMMB in cattle | Dr. Anil Kumar Ravi | |

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) |
|---|---|---|---|---|---|
| | | | | | |

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

| Sl. No. | Brief details of the tool/ methodology followed | Purpose for which the tool was followed |
|---|---|---|
| | | |

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

| Sl. No | Name of the Equipment | Qty. |
|---|---|---|
| 1. | Mini-kit | 02 |
| | | |

3.11.b. Details of samples analyzed so far:

| Number of soil samples analyzed | | |
|---|---|---|
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |
| 52 | | 52 |

3.11.c Detail of Soil, Water and Plant analysis at KVK

| Sl. | Analysis | No. of Samples analyzed | No. of Villages | No. of Farmers | Amount realized (Rs.) |
|---|---|---|---|---|---|
| 1. | Soil | 52 | 5 | 52 | 7280 |
| 2. | Water | | | | |
| 3. | Plant | | | | |
| 4. | Fertilizers | | | | |
| 5. | Manures | | | | |
| 6. | Food | | | | |
| 7. | Others (if any) | | | | |

3.11.d. 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. | World Soil Day | 78 | - | - | - | 78 |

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 (No.) | Visit by the officials (No.) |
|---|---|---|---|---|
| | | | | |

3.13. Technology week celebration

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

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

| No of student trained | No of days stayed |
|---|---|
| 19 | 180 |

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

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 |
|---|---|---|
| 16.12.2021 | Birendra Kumar Singh, MLA Wazirganj | To participate in Valedictory function of Conference on "Natural Farming (Zero Budget Natural Farming)" |
| | | |

## 4. IMPACT

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

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---|---|---|---|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| | | | | |
| | | | | |

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 |
| | |

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

| Sl. No. | Brief details of technology | Impact of the technology in subjective terms | Impact of the technology in objective terms |
|---|---|---|---|
| | | | |

4.4. Details of innovations recorded by the KVK

| | |
|---|---|
| Thematic area | |
| Name of the Innovation | |
| Details of Innovator | |
| Back ground of innovation | |
| Technology details | |
| Practical utility of innovation | |

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 |
|---|---|
| 1. District Agriculture Officer, Gaya | Training to farmers & Extension functionaries |
| 2. Agricultural Technology Management Agency (ATMA), Gaya | Training, Field day, Kisan Mela |
| 3. District Horticulture Office, Gaya | Training |
| 4. Bihar State Forest Development Corporation, Gaya | Training |
| 5. Sugarcane Development Department, Gaya/Patna | Training / Exhibition / Seminar |
| 6. District Soil Conservation Department, Gaya | Training |
| 7. National Fertilizer Limited, Gaya | Seminar, Field day, Training |
| 8. Indian Farmers Fertilizer Co. (IFFCO) Gaya | Field day, Seminar, Training |
| 9. CWC, Patna | Training |
| 10. Roji – Roti (NGO), Manpur, Gaya | Training |
| 11. Micro-Mode Management Project Govt. of Bihar, (RAU, Pusa) | Field Demonstration |
| 12. National Horticulture Mission Govt. of Bihar (RAU, Pusa) | Model Horticultural Nursery |
| 13. Agricutural Research Institute Patna | Nursery Development of Medicinal & Aromatic Plants |
| 14. PRAN Gaya | Training, field day |
| 15. ICAR- Research complex for eastern region, Patna | Demonstration on LEWA irrigation system |
| 16. Paradeep Phosphates Limited, Gaya | Field day |
| 17. Bihar Agriculture Management & Extension Training Institute, Patna | Participation in meeting, Conducting Training Programme, joint implementation etc. |
| 18. NABARD | Training, Workshop, Kisan Club |
| 19.. Jeevika, Gaya | Training, OFT, Field visit |
| 20. Agragami India, Gaya | Training, FLD, OFT |

5.2. List of special programmes undertaken during 2021 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

| Name of the programme/ scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|---|
| Assessment & refinement of technology | Assessment of herbicide in wheat | 15 Nov. 2021 | ATMA, Gaya | 75000.00 |

(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.) |
|---|---|---|---|---|
| | | | | |

# 6. 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. | Goatry | 2015 | 39 | Black Bengal | 11 kid | | | 12672.00 | |
| 2. | Vermi-compost unit | 2019 | 5.6 | | | | | | |
| 3. | Azolla unit | 2019 | 9.3 | | | | | | |
| | 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 | |
| Moong | 06/04/2021 | June/July | 0.8 | IPM 2-3 | F/S | 0.46 | 8000 | 5060 | |
| Paddy | 29/06/2021 | 21/11/2021 | 4.8 | R. Sweta | F/S | 205.30 | 153600 | 820000 | |
| Paddy | 12/07/2021 | 27/10/2021 | 0.4 | S. Harshit | F/S | 15.40 | 12800 | 53900 | |
| Wheat | 10/12/2021 | Standing | 4.25 | DBW – 187, S. Shrestha | C/S | | | | |
| Chickpea | 13/12/2021 | Standing | 0.5 | GNG-2299 | F/S | | | | |

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

| Sl. No. | Name of the Product | Qty. (Kg) | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|
| | | | Cost of inputs | Gross income | |
| 1. | Azola unit | 45 | 1000 | - | Used in paddy |
| 2. | Vermi-compost unit | 500 | 4500 | - | Used in paddy nursery & seedlings |

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

| Sl. No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|
| | | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | |
| 1. | Goatry | Black Bengal | Kid | 11 | | 12672.00 | |
| 2. | | | | | | | |

## 6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---|---|---|---|
| March | 24 | 30 | - |
| | | | |
| Total : | **24** | **30** | |

(For whole of the year)

## 6.6. Utilization of staff quarters NA

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

| Months | Q I | QII | Q III | QIV | Q V | QVI |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |

# 7. FINANCIAL PERFORMANCE

## 7.1. Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number |
|---|---|---|---|
| Saving (Main A/c) | Punjab National Bank | Dhamitola, Gaya | 0179000100225627 |
| Saving (R/F A/c) | Punjab National Bank | Dhamitola, Gaya | 0179000100225636 |

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

| Item | Sanctioned by ICAR | | Expenditure | | Unspent balance as on 31.12.2021 |
|---|---|---|---|---|---|
| | Kharif | Rabi | Kharif | Rabi | |
| Mustard | | 240000.00 | | 184110.00 | 55890.00 |
| | | | | | |
| | | | | | |
| | | | | | |

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

| Item | Sanctioned by ICAR | | Expenditure | | Unspent balance as on 31st Dec. 2021 |
|---|---|---|---|---|---|
| | Kharif | Rabi | Kharif | Rabi | |
| Pigeon pea | 90000.00 | | 79654.00 | | 10346.00 |
| Chick pea | | 90000.00 | | 78750.00 | 11250.00 |
| Green gram | | 90000.00 | | Not started | 90000.00 |
| Lentil | | 90000.00 | | 73000.00 | 17000.00 |

## 7.4. Utilization of KVK funds during the year 2021 (Not audited)

| Sl. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 1,27,90,500.00 | 1,15,11,500.00 | 90,39,689.00 |
| 2 | Traveling allowances | 60,000.00 | 57,000.00 | 20,000.00 |
| 3 | HRD | 24,000.00 | 22,800.00 | 12,000.00 |
| 4 | Contingencies | | | |
| *A* | Stationary | 5,00,000.00 | 4,75,000.00 | 2,77,722.00 |
| *B* | POL | | | |
| *C* | Training | 1,60,000.00 | 1,51,705.00 | 1,49,157.00 |
| *D* | Training material | | | |
| *E* | FLD | 80,000.00 | 76,000.00 | 65,162.00 |
| *F* | OFT | 60,000.00 | 57,000.00 | 49,791.00 |
| *G* | Soil & water testing lab | 0.00 | | 0.00 |
| *H* | Maintenance of building | 50,000.00 | 47,500.00 | 14,988.00 |
| *I* | Extension activities, kisan mela | 50,000.00 | 47,500.00 | 0.00 |
| *J* | Swachhta Expenditure | 23,000.00 | 23,000.00 | 22,000.00 |
| *K* | SCSP General | 85,000.00 | 72,300.00 | 73,060.00 |
| TOTAL (A) | | 1,38,82,500.00 | 1,25,41,305.00 | 97,23,569.00 |
| B. Non-Recurring Contingencies | | | | |
| 1 | SCSP equipment | 70,000.00 | 63,000.00 | 67,200.00 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| TOTAL (B) | | 70,000.00 | 63,000.00 | 67,200.00 |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | **1,49,84,500.00** | **1,35,77,110.00** | **1,04,54,649.00** |

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

| Year | Opening balance as on 1st January | Income during the year | Expenditure during the year | Net balance in hand as on 31st December of each year (Kind + cash) |
|---|---|---|---|---|
| 2019 | 20,27,199.85 | 7,55,054.00 | 6,60,958.00 | 21,21,295.85 |
| 2020 | 21,21,295.85 | 9,47,573.00 | 7,77,480.00 | 22,91,388.85 |
| 2021 | 22,91,388.85 | 13,43,754.00 | 6,93,863.00 | 29,41,279.85 |

7.6. (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

7.7. Joint activity carried out with line departments and ATMA

| Name of activity | Number of activity | Season | With line department | With ATMA | With both |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

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) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

9.1. Nehru Yuva Kendra (NYK) Training

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

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 |
| | | | | |

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

| Type of message | No. of messages | No. of farmers covered |
|---|---|---|
| Crop | 7 | 57069 |
| Livestock | 5 | 40787 |
| Fishery | | |
| Weather | 2 | 16393 |
| Marketing | | |
| Awareness | 3 | 24548 |
| Training information | | |
| Other | | |
| **Total** | **17** | **138797** |

9.4. *KVK* Portal and Mobile App

| Sl. No. | Particulars | Description |
|---|---|---|
| 1. | No. of visitors visited the portal | |
| 2. | No. of farmers registered in the portal | |
| 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 Kisan Mobile Advisory Services (KMAS)

| Sl. No. | Discipline | No. of Advisories | No. of Messages (SMSs) | No. of Farmers |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

| Date/ Duration of Observation | Activities undertaken | No. of Participants | | | |
|---|---|---|---|---|---|
| | | Staffs | Farmers | Others | Total |
| 16.12.2021 | Live telecast of Hon'ble PM on "Natural Farming (Zero Budget Natural Farming)", Oath taken by KVK staff and Display of banners | 14 | 402 | 4 | 420 |
| 17.12.2021 | Basic maintenance:<br>Stock taking on digitization of office records/ e-office implementation. Cleanliness drive including cleaning of offices, corridors and premises. | 13 | 6 | 0 | 19 |
| 18.12.2021 | Sanitation and SWM:<br>Cleaning of office and corridor weeding, | 14 | 3 | 0 | 17 |
| 19.12. 2021 | Cleanliness & sanitization within campus, colonies and nearby market | 13 | 22 | 1 | 36 |
| 20.12. 2021 | Stock taking of waste management & utilization of organic waste, Generation of wealth from waste, Promoting clean & green technologies and organic farming in kitchen | 9 | 6 | 0 | 15 |

| | | | | | |
|---|---|---|---|---|---|
| | garden in campus | | | | |
| 21.12. 2021 | Awareness on water management | 14 | 40 | 0 | 58 |
| 22.12. 2021 | Awareness program on safe disposal of all kinds of waste | 12 | 40 | 0 | 52 |
| 23.12. 2021 | Celebration of kisan diwas | 13 | 72 | 12 | 97 |
| 24.12. 2021 | Awareness on cleanliness at KVK farm | 14 | 23 | 0 | 37 |
| 25.12. 2021 | Celebration of Hon'ble Vajpayiji Birthday and Awareness camp on cleanliness | 10 | 23 | 0 | 33 |
| 26.12. 2021 | Awareness programme on cleanliness | 13 | 8 | 0 | 21 |
| 27.12. 2021 | Awareness on waste management and utilization of organic waste | 13 | 25 | 1 | 39 |
| 28.12. 2021 | Awareness on water harvesting in horticulture crop/kitchen garden | 10 | 22 | 0 | 32 |
| 29.12. 2021 | Creating awareness on treatment and safe disposal of bio-degradable and non bio-degradbale waste by involving farmer community | 9 | 25 | 2 | 52 |
| 30.12. 2021 | Awareness camp on cleanliness | 6 | 28 | 1 | 35 |
| 31.12. 2021 | Awareness programme on cleanliness | 6 | 13 | 0 | 19 |

b. Details of Swachhta activities with expenditure

| Activities | Number | Expenditure (in Rs.) |
|---|---|---|
| 1. Digitization of office records/ e-office | 2 | - |
| 2. Basic maintenance | 13 | - |
| 3. Sanitation and SBM | 6 | - |
| 4. Cleaning and beautification of surrounding areas | 9 | - |
| 5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste | 23 | 23000.00 |
| 6. Used water for agriculture/ horticulture application | 1 | - |
| 7. Swachhta Awareness at local level | 19 | - |
| 8. Swachhta Workshops | 1 | - |
| 9. Swachhta Pledge | 1 | - |
| 10. Display and Banner | 16 | - |
| 11. Foster healthy competition | 2 | - |
| 12. Involvement of print and electronic media | 3 | - |
| 13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 3 | - |
| 14. No. of Staff members involved in the activities | 17 | - |
| 15. No of VIP/VVIPs involved in the activities | 2 | - |
| 16. Any other specific activity (in details) | | - |
| **Total** | **118** | **23000.00** |

9.7. Observation of National Science Day

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

9.8. Programme with Seema Suraksha Bal/ BSF

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

9.9. Agriculture Knowledge in rural school

| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
|---|---|---|---|
| | | | |
| | | | |

Give good quality 1-2 photograph(s)

9.10. Details of '*Pre-Rabi Campaign'* 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MLAs Attended the programme | Chairman ZilaPanchayat | Distt. Collector/ DM | Bank Officials | Farmers | Govt. Officials, PRI members etc. | Total | | |
| | | | | | | | | | | | | |

9.11. 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. | Training on swacchta at Rasalpur village, Gaya | 1 | 51 | - | - |

9.12. 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) |
|---|---|---|---|---|---|
| 1. | Celebration of Mahila Kisan Divas | | 61 | - | - |

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

| Sl. No. | Name of Farmer | Address of the farmer with contact no. | Innovation/ Leading in enterprise |
|---|---|---|---|
| | | | |

9.14. Revenue generation

| Sl. No. | Name of Head | Income (Rs.) | Sponsoring agency |
|---|---|---|---|
| 1. | Assessment & Refinement | 75,000.00 | ATMA, Gaya |
| 2. | | | |
| 3. | | | |

9.15. Resource Generation:

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

9.16. Performance of Automatic Weather Station in KVK

| 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) **NA**

a) Year:
b) Introduction / General Information:

| Experiment | Title | Objective | Treatment details | Date of sowing | Replication | Result with photographs |
|---|---|---|---|---|---|---|
| Experiment 1 | | | | | | |
| Experiment 2 | | | | | | |
| Experiment 3 | | | | | | |
| … | | | | | | |
| … | | | | | | |
| Others (If any) | | | | | | |

11. Details of TSP **NA**

a. Achievements of physical output under TSP during 2021

| **Sl.** | **Activities** | **Physical Achievement** | |
|---|---|---|---|
| 1) | Trainings | No. of Trainings/Demos | No. of beneficiaries |
| a. | Farmer | | |
| b. | Women | | |
| c. | Rural Youths | | |
| d. | Extension Personnel | | |
| 2) | OFT | No. of OFTs | No. of beneficiaries |
| | | | |
| 3) | FLD | No. of FLDs | No. of beneficiaries |
| | | | |
| 4) | Mobile agro- advisory to farmers | No. of advisory | No. of beneficiaries |
| | | | |
| 5) | Other activities | | |
| a. | Participants in extension activities (No.) | | |
| b. | Production of seed (q) | | |
| c. | Production of Planting material (No. in lakh) | | |
| d. | Production of Livestock strains (No. in lakh) | | |
| e. | Production of fingerlings (No. in lakh) | | |
| f. | Testing of Soil, water, plant, manures samples (Nos.) | | |
| g. | Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.) | | |
| h. | No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) | | |

b. Fund received under TSP in 2017-18 (Rs. In lakh):

c. 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 | |

d. 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. Details of SCSP

| Sl. | Activities | Physical Achievement | |
|---|---|---|---|
| 1) | Trainings | No. of Trainings/Demos | No. of beneficiaries |
| a. | Farmer | 3 | 86 |
| b. | Women | 5 | 139 |
| c. | Rural Youths | 0 | 0 |
| d. | Extension Personnel | 0 | 0 |
| 2) | OFT | No. of OFTs | No. of beneficiaries |
| | | 0 | 0 |
| 3) | FLD | No. of FLDs | No. of beneficiaries |
| | | 4 | 120 |
| 4) | Mobile agro- advisory to farmers | No. of advisory | No. of beneficiaries |
| | | 852 | 852 |
| 5) | Other activities | | |
| a. | Participants in extension activities (No.) | 367 | |
| b. | Production of seed (q) | 0 | |
| c. | Production of Planting material (No. in lakh) | 0 | |
| d. | Production of Livestock strains (No. in lakh) | 0 | |
| e. | Production of fingerlings (No. in lakh) | 0 | |
| f. | Testing of Soil, water, plant, manures samples (Nos.) | 0 | |

13. Progress report of NICRA KVK (Technology Demonstration component) during the period **NA**
(Applicable for KVKs identified under NICRA)

Natural Resource Management

| Name of intervention undertaken | Numbers under taken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SC | | ST | | Other | | Total | | | |
| | | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | | |

Crop Management

| Name of intervention undertaken | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | |

Livestock and fisheries

| Name of intervention undertaken | Number of animals covered | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SC | | ST | | Other | | Total | | | |
| | | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | | |

Institutional interventions

| Name of intervention undertaken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SC | | ST | | Other | | Total | | | |
| | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | |

Capacity building

| Thematic area | No of Courses | No of beneficiaries | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | |
| | | M | F | M | F | M | F | M | F | T |
| | | | | | | | | | | |

Extension activities

| Thematic area | No of activities | No of beneficiaries | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | |
| | | M | F | M | F | M | F | M | F | T |
| | | | | | | | | | | |

Detailed report should be provided in the circulated Performa

14. a) Awards/Recognition received by the KVK in year 2021

| Sl. No. | Name of the Award | Conferring Authority | Amount | Purpose |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

b) Award received by Farmers in year 2021

| Sl. | Name of the Award | Name of the Farmer | Address | Contact No. | Aadhar No. | Amount | Purpose | Conferring Authority |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |

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

16. 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

17. Integrated Farming System (IFS)

A) 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 | Goatry, Dairy, Vermicompost | 1.0 | - | - | - | - | - |

B) Activities under IFS

| Sl. No. | Component Name | No. of Components established | Area (ha) | No. of Activities | | No. of farmers benefited | |
|---|---|---|---|---|---|---|---|
| | | | | Demo | Training | Demo | Training |
| 1. | | | | | | | |

18. Technologies for Doubling Farmers' Income

| Sl. No. | Name of the Technology | Brief Details of Technology (3- 5 bullet points) | Net Return to the farmer (Rs.) per ha per year due to adoption of the technology | No. of farmers adopted the technology in the district | One high resolution 'Photo' in 'jpg' format for each technology |
|---|---|---|---|---|---|
| 1 | | | | | |

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

| Phase | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
|---|---|---|---|---|---|
| | Total no. of villages | Total no. of farmers | Date of formation | Name of members | |
| I (up-to 15.03.2018) | | | | | |
| II (up-to 24.04.2018) | | | | | |
| Total | | | | | |

20. Information on Visit of Ministers to KVKs, if any

| Date of Visit | Name of Hon'ble Minister | Name of Ministry | Salient points in his/ her observation (2-3 bulleted points) |
|---|---|---|---|
| | | | |

21. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2017-18, 2019, 2020 and 2021

| Year | Name of the Job role | Name of the certified Trainer of KVK for the Job role | Date of start of training | Date of completion of training | No. of participants | Whether uploaded to SDMS Portal (Y/N) | Fund utilized for the training (Rs.) |
|---|---|---|---|---|---|---|---|
| 2017-18 | | | | | | | |
| | | | | | | | |
| 2019 | Mushroom Grower | Dr. Ashok Kumar, Dr. Anil Kumar Ravi | 15.01.2019 | 13.02.2019 | 20 | Y | |
| | Mushroom Grower | Dr. Ashok Kumar, Dr. Anil Kumar Ravi | 01.03.2019 | 28.03.2019 | 20 | Y | |
| 2020 | | | | | | | |
| | | | | | | | |
| 2021 | | | | | | | |
| | | | | | | | |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2021

| Thematic area of training | Title of the training | Duration (in hrs.) | No. of participants | | | | | | | | | Fund utilized for the training (Rs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SC | | ST | | Other | | Total | | | |
| | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | |

22. Information of NARI Project (if applicable)

| Name of Nodal Officer | No. of OFT on specified aspects | Title(s) of OFT | No. of FLD on specified aspects | No. of capacity development programme on specified aspects | Total no. of farm women/ girls involved in the project | Details of Issues related to gender mainstreaming addressed through the project |
|---|---|---|---|---|---|---|
| Dr. Ashok Kumar | | | | | | |

Progress Information of NARI Project

a. Details of established Nutrition Garden in Nutri-Smart village

| Sl. | Name of Nutri-Smart Village | Type of Nutrition Garden | Number | Area (sqm) | No. of beneficiaries |
|---|---|---|---|---|---|
| 1. | | Backyard/Kitchen garden | | | |
| 2. | Anganwadi Kendra | Community level | 5 | | 5 |
| 3. | | Terrace Garden | | | |
| 4. | | Vertical Garden | | | |
| TOTAL | | | | | |

b. Details of Bio-fortified crops in Nutri-Smart village

| Name of Nutri-Smart Village | Season | Activity (OFT/FLD) | Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others | Name of Crop | Variety | Area (ha) | No. of beneficiaries |
|---|---|---|---|---|---|---|---|
| Rasalpur | Rabi | FLD | Cereal | Wheat | BHU-31 | 2.0 | 5 |
| | | | | | | | |

c. Value addition in Nutri-Smart village

| Name of Nutri Smart Village | Name of Crop/ veg./ fruits/ other | Name of Value added product | Activity (OFT/FLD) | No. of farmers/ beneficiaries |
|---|---|---|---|---|
| | | | | |
| | | | | |

d. Training programmes in Nutri-Smart village

| Name of Nutri Smart Village | Area of Training | No of courses | No. of beneficiaries |
|---|---|---|---|
| | | | |
| | | | |

e. Extension activities under NARI Project

| Name of Nutri-Smart Village | Title of Activity | No. of activities | No. of beneficiaries |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

23. Activities under KSHAMTA

| Number of Adopted Villages | No. of Activities | | No. of farmers benefited | |
|---|---|---|---|---|
| | Demo | Training | Demo | Training |
| | | | | |
| | | | | |

24. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

***Krishi Kalyan Abhiyan- I/II***

**A. Training**

| ***Name of programme*** | ***No. of programmes*** | ***No. of farmers benefitted*** | | | | | | | | | ***No. of officials attended the programme*** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | | |
| | | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***T*** | |
| **KKA-I** | | | | | | | | | | | |
| **KKA-II** | | | | | | | | | | | |

**B. Distribution of seed/ planting materials/ input/ others**

| Name of programme | No. of Programme | Total quantity distributed | | | | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Seed (q) | Planting material (lakh) | Input (kg) | Other (kg/ No.) | SC | | ST | | Others | | Total | | | |
| | | | | | | M | F | M | F | M | F | M | F | T | |
| KKA-I | | | | | | | | | | | | | | | |
| KKA-II | | | | | | | | | | | | | | | |

**C. Livestock and Fishery related activities**

| Name of programme | No. of Programme | Activities performed | | | | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of animals vaccinated | No. of animals dewormed | Feed/ nutrient supplements provided (kg) | Any other (Distribution of animals/ birds/ fingerlings) [No.] | SC | | ST | | Others | | Total | | | |
| | | | | | | M | F | M | F | M | F | M | F | T | |
| KKA-I | | | | | | | | | | | | | | | |
| KKA-II | | | | | | | | | | | | | | | |

**D. Other activities**

| Name of programme | Activities | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Others | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| KKA-I | Soil Health Card Distributed | | | | | | | | | | |
| | NADEP<br>Pit established | | | | | | | | | | |
| | Farm implements distributed | | | | | | | | | | |
| | Others, if any | | | | | | | | | | |
| KKA-II | Soil Health Card Distributed | | | | | | | | | | |
| | NADEP<br>Pit established | | | | | | | | | | |
| | Farm implements distributed | | | | | | | | | | |
| | Others, if any | | | | | | | | | | |

***Krishi Kalyan Abhiyan- III***

| No. of villages covered | No. of animal inseminated | No. of farmers benefitted | | | | | | | | | Any other, if any (pl. specify) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Others | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | |

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

| Sl. No. | Name of the programme | Date of the programme | Venue | Purpose | No. of participants |
|---|---|---|---|---|---|
| 1. | "Azadi Ke Amrit Mahotshav" Food & nutrition for farmers | 26.08.2021 | KVK | Food security | 93 |
| 2. | Vanijya utsav by APEDA | 26.09.2021 | KVK | Vanijya utsav | 104 |

26. Good quality action photographs of overall achievements of KVK during the year (best 10)

**Live telecast of Hon'ble PM on Natural farming**


**Swacchta Pakhwada**

**Azadi Ka Amrit Mahotsav**


**World Soil Day**


**Capacity Building Programme**

**Mahila Kisan Divas**

National Milk Day


Poshan Vatika Maha-abhiyaan


Live telecast program of Hon'ble PM on Vanijya Utsav


Live telecast program of Hon'ble PM & Farmers-Scientist meet


World Water Day


International Women Day


**OFT (Animal Science)**


**FLD (Animal Science)**

CRAP


**Fig: Sowing of ZT wheat at CRV Rupaspur**


**Fig: Sowing of ZT wheat at CRV Rahimbigha**

**Fig: Field inspection by scientist at CRV Rasalpur**


**Fig: 40 days old ZT wheat at CRV Takeya**


**Fig: Field inspection by scientist at CRV Rasalpur Manpur**


**Fig: Field day and demonstration of ZT plot at CRV Rasalpur Nagar**


**Fig: Crop cutting at CRV Rasalpur, Manpur**


**Fig: Crop cutting at CRV Rupaspur**


**Fig: Germinated ZT lentil at KVK farm Gaya**


**Fig: Exposure visit of farmers in ZT Lentil plot**

**Fig: Seedling stage of Rabi maize at CRV Takeya**

**Fig: Standing crop of Rabi maize at KVK farm**


**Fig: Field inspection of ZT Mustard at CRV Rupaspur**

**Fig: Field inspection of ZT Mustard at CRV Rasalpur Manpur**


**Fig: Field inspection of ZT Chickpea at CRV Rasalpur Manpur**


**Fig: Fig: Field inspection of ZT Chickpea at CRV Rasalpur Manpur**


**Fig: Sowing of DSR at CRV Rasalpur Manpur**

**Fig: Field visit in DSR plot by Director ICAR-RCER in CRV Rasalpur Manpur**

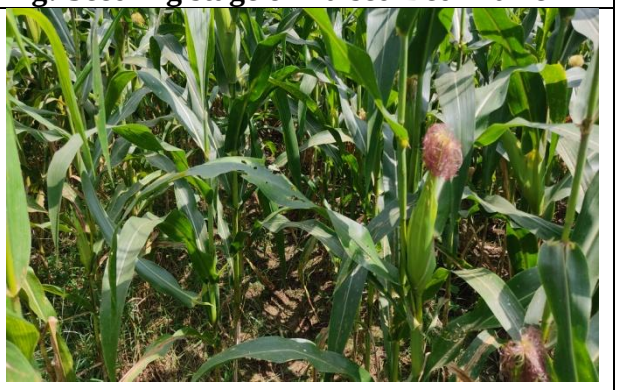
**Fig: Azolla application in UPTR plot at KVK farm**

**Fig: Azolla application in line transplanted paddy at CRV Takeya**


**Fig: Line transplanting of paddy at CRV Rasalpur Nagar**

**Fig: Direct seeding of paddy with drum seeder**

**Fig: Azolla mat in UPTR plot at KVK farm**

| | |
|---|---|
|  |  |
| **Fig: Exposure visit of farmers at KVK** | **Fig: Grain filling stage of paddy in DSR plot** |
|  |  |
| **Fig: Raised Bed planting of maize** | **Fig: Seedling stage of Raised Bed Maize** |
|  |  |
| **Fig: Line Sown maize plot at CRV Takeya** | **Fig: Flowering stage of line sown maize** |
|  |  |
| **Fig: Layout preparation for Soyabean** | **Fig: Seedling stage of Soyabean** |

***