

**KRISHI VIGYAN KENDRA, PIPRAKOTHI,  
EAST CHAMPARAN**



**ANNUAL REPORT**  
**(JANUARY to DECEMBER, 2021)**



**DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY,  
PUSA, SAMASTIPUR (BIHAR)**

## PROFORMA FOR ANNUAL REPORT 2021( 1<sup>st</sup> January-31<sup>st</sup> 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 |                                 |
| KVK, Piprakothi, P.O. + P.S-<br>Piprakothi, East Champaran<br>(Bihar), Pin- 845429 | N/A       | N/A | head.kvk.piprakothi@rpcau.ac.in |

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

| Name and address of Host<br>Organization                                           | Telephone     |               | E mail         |
|------------------------------------------------------------------------------------|---------------|---------------|----------------|
|                                                                                    | Office        | FAX           |                |
| Dr. Rajendra Prasad Central<br>Agricultural University, Pusa,<br>Samastipur, Bihar | 06274-240-226 | 06274-240-255 | vc@rpcau.ac.in |

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

| Name                   | Telephone / Contact |            |                                 |
|------------------------|---------------------|------------|---------------------------------|
|                        | Residence           | Mobile     | Email                           |
| Dr. Arvind Kumar Singh | KVK, Piprakothi     | 9473000861 | head.kvk.piprakothi@rpcau.ac.in |

#### 1.4. Year of sanction of KVK: 05<sup>th</sup> June, 2006

1.5. Staff Position (as on 31<sup>st</sup> 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. A. K. Singh            | Senior Scientist & Head         | Agronomy                               | 131400-217100                | 03.07.2009                     | Permanent           | Other                       |
| 2.      | Subject Matter Specialist   | Dr. Neelam Kumari          | SMS                             | Home Science                           | 57700-182400                 | 17 07.2007                     | Permanent           | Other                       |
| 3.      | Subject Matter Specialist   | Mr. Ram Babu Sharma        | SMS                             | Plant Pathology                        | 57700-182400                 | 18.06.2009<br>(On Study Leave) | Permanent           | OBC                         |
| 4.      | Subject Matter Specialist   | Dr. Shailendra Kumar Rajak | SMS                             | Veterinary Science                     | 56100-177500                 | 23.04.2019                     | Permanent           | SC                          |
| 5.      | Subject Matter Specialist   | Er. AnshuGangwar           | SMS                             | Agricultural Engg.(Soil & Water Engg.) | 56100-177500                 | 15.07.2019                     | Permanent           | Other                       |
| 6.      | Subject Matter Specialist   | Vacant                     |                                 |                                        |                              |                                |                     |                             |
| 7.      | Subject Matter Specialist   | Vacant                     |                                 |                                        |                              |                                |                     |                             |
| 8.      | Programme Assistant         | Anand Kumar                | Programme Assistant (Lab. Tech) | Soil Science                           | 35400-112400                 | 22.12.2017                     | Permanent           | OBC                         |
| 9.      | Computer Programmer         | Vacant                     |                                 |                                        |                              |                                |                     |                             |
| 10.     | Farm Manager                | Manish Kumar               | Farm Manager                    | Forestry                               | 35400-112400                 | 22.05.2018                     | Permanent           | OBC                         |
| 11.     | Accountant / Superintendent | Ghanshyam Kumar            | Assistant                       | -                                      | 35400-112400                 | 23.10.2017                     | Permanent           | Other                       |
| 12.     | Stenographer                | Mr Abhishek Kumar          | Stenographer                    | -                                      | 25500-81100                  | 19.02.2018                     | Permanent           | Other                       |
| 13.     | Driver                      | Shri Ajay Kumar            | Jeep Driver                     | -                                      | 21700-69100                  | 04.03.2021                     | Permanent           | OBC                         |
| 14.     | Driver                      | Mr. Sandeep Kumar          | Tractor Driver                  | -                                      | 21700-69100                  | 01.03.2021                     | Permanent           | Other                       |
| 15.     | Supporting staff            | Mr. Gaurav Kumar           | Skill Supporting staff          | -                                      | 18000-56900                  | 01.03.2021                     | Permanent           | OBC                         |
| 16.     | Supporting staff            | Shri Vipin Kumar           | Skill Supporting staff          | -                                      | 18000-56900                  | 10.03.2021                     | Permanent           | OBC                         |

## 1.6. Total land with KVK (in ha):

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1      | Under Buildings           | 2.0       |
| 2.     | Under Demonstration Units | 0.8       |
| 3.     | Under Crops               | 4.8       |
| 4.     | Orchard/Agro-forestry     | 0.4       |
| 5.     | Others with details       | 00        |
|        | Total                     | 8.00      |

Total area should be matched with breakup

## 1.7. Infrastructure Development:

## A) Buildings and others

| S. No. | Name of infrastructure          | Not yet started | Completed up to plinth level | Completed up to lintel level | Completed up to roof level | Totally completed | Plinth area (sq.m) | Under use or not* | Source of funding |
|--------|---------------------------------|-----------------|------------------------------|------------------------------|----------------------------|-------------------|--------------------|-------------------|-------------------|
| 1.     | Administrative Building         |                 |                              |                              |                            | Yes               | 548                | Under use         | ICAR, New Delhi   |
| 2.     | Farmers Hostel                  |                 |                              |                              |                            | Yes               | 1268               | Under use         | ICAR, New Delhi   |
| 3.     | Staff Quarters (6)              |                 |                              |                              |                            | Yes               | 1900               | Under use         | ICAR, New Delhi   |
| 4.     | Piggery unit                    | ✓               |                              |                              |                            |                   |                    |                   |                   |
| 5      | Fencing                         |                 |                              |                              |                            | Yes               |                    | Under use         | ICAR, New Delhi   |
| 6      | Rain Water harvesting structure |                 |                              |                              |                            | Yes               |                    | Under use         |                   |
| 7      | Threshing floor                 |                 |                              |                              |                            | Yes               | 408                | Under use         | ICAR, New Delhi   |
| 8      | Farm godown                     |                 |                              |                              |                            | Yes               | 231                | Under use         | ICAR, New Delhi   |
| 9.     | Dairy unit                      |                 |                              |                              |                            | Yes               | 900                | Under use         | NDRI, Karnal      |
| 10.    | Poultry unit                    |                 |                              |                              |                            | Yes               |                    |                   |                   |
| 11.    | Goatary unit                    |                 |                              |                              |                            | Yes               |                    |                   |                   |
| 12.    | Mushroom Lab                    |                 |                              |                              |                            | Yes               | 18                 | Under use         | RKVY              |
| 13.    | Mushroom production unit        |                 |                              |                              |                            | Yes               | 500                | Under use         | ATARI, Patna      |
| 14.    | Shade house                     |                 |                              |                              |                            | Yes               |                    | Under use         | Sansad Fund       |
| 15.    | Soil test Lab                   |                 |                              |                              |                            | Yes               | 30                 | Under use         | ICAR New Delhi    |
| 16.    | Jaggery Processing unit         |                 |                              |                              |                            | Yes               | 1000               | Under use         | IISR, Lucknow     |



|     |                                         |  |  |  |  |     |       |           |                  |
|-----|-----------------------------------------|--|--|--|--|-----|-------|-----------|------------------|
| 17. | Bee Box Manufacturing Unit              |  |  |  |  | Yes | 900   | Under use | NBB, New Delhi   |
| 18. | High Tech Bamboo Nursery                |  |  |  |  | Yes | 1200  | Under use | CBTC, Assam      |
| 19. | Food Processing Unit                    |  |  |  |  | Yes | 176.5 | Under use | ICAR, New Delhi  |
| 20. | Bamboo Processing unit                  |  |  |  |  | Yes | 1500  | Under use | CBTC, Assam      |
| 21. | Azolla Unit                             |  |  |  |  | Yes | 3.37  | Under use | DRPCA, Pusa      |
| 22. | Vermi Compost Unit                      |  |  |  |  | Yes | 12    | Under use | DRPCA, Pusa      |
| 23. | Polyhouse Unit                          |  |  |  |  | Yes | 2400  | Under use | NHB              |
| 24. | Shade Net                               |  |  |  |  | Yes |       | Under Use | NHB              |
| 25. | Lemon demo Unit                         |  |  |  |  | Yes | 200   | Under use | CCRI, Nagpur     |
| 26. | Integrated Farming System Unit          |  |  |  |  | Yes | 10000 | Under use | ICAR, New Delhi  |
| 27. | Mist Chamber                            |  |  |  |  | Yes | 13.93 | Under use |                  |
| 28. | Seed Sale Counter and Exhibition Center |  |  |  |  | Yes |       | Under Use |                  |
| 29. | Solar Pump                              |  |  |  |  | Yes | -     | Under Use | DRPCA, Pusa      |
| 30. | Distillation Unit                       |  |  |  |  | Yes |       | Under Use | CSIR-IIIM, Jammu |
| 31. | Hatchery Unit                           |  |  |  |  | Yes |       | Under 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           | 2019             | 6.50 Lakh  |               | Good             |
| Tractor          | 2006             | 5.0 lakh   |               | Needs repairing  |
| Tractor          | 2019             | 7.0 Lakh   |               | Functioning well |
| Motor Cycle (02) | 2017             |            |               | Good             |

#### C) Equipment & AV aids

| Name of equipment        | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|--------------------------|------------------|------------|----------------|----------------|
| <b>A. Lab. Equipment</b> |                  |            |                |                |
| Laminar air flow         | 2017             |            | Good           | NBB            |
| Autoclave                | 2015             | 2450.00    | Good           | ATMA           |

|                                  |            |            |                           |          |
|----------------------------------|------------|------------|---------------------------|----------|
| Deep Freezer                     | 2017       |            | Good                      | NBB      |
| Centrifuge                       | 2017       |            | Good                      | NBB      |
| Honey Processing Machine         | 2017       |            | Good                      | NBB      |
| Wax Sheet Making Machine         | 2017       |            | Good                      | NBB      |
| Domestic floor mile              | 2017       |            |                           |          |
| Oven Tester Griller              | 2016       | 3200.00    | Good                      | ICAR     |
| Sieving machine                  | 2016       | 24000.00   | Good                      | ICAR     |
| Hand Maize Sheller -10           | 2013       | 500.00     | Good                      | ICAR     |
| <b>b. Farm Machinery</b>         |            |            |                           |          |
| Reaper                           | 2018       |            | Good                      | ICAR     |
| Knapsack Sprayer- 02             | 2014       |            | Good                      | ICAR     |
| Pump set                         | 2014       |            | Good                      | ICAR     |
| Zero Tillage Machine             | 2010       |            | Good                      | ICAR     |
| Paddy Transplanter               | 2013       |            | Good                      | ICAR     |
| Multi Crop Thresher              | 2016       |            | Good                      | ICAR     |
| Multi Cop Sowing Machine         | 2010       |            | Good                      | ICAR     |
| Seed Processing Machine          | 2010       | 1900000.00 | Good                      | RKVY     |
| Mobile Seed Processing Unit      | 2018       | 1485000.00 | Good                      | Seed Hub |
| Mini Dal Mill                    | 2019       |            | Good                      | ICAR     |
| Mini Rice Mill                   | 2019       |            | Good                      | ICAR     |
| Self Propelled Reaper Cum Binder | 2019       |            | Good                      | ICAR     |
| <b>C. AV Aids</b>                |            |            |                           |          |
| Computer-03                      | 2008& 18   | 100000.00  | Good                      | ICAR     |
| Laptop-2                         | 2009       | 60000.00   | Good                      | ICAR     |
| Sony Handy cam                   | 2008       | 25000.00   | On the stage of repairing | ICAR     |
| Printer-03                       | 2009       | 35000.0    | On the stage of repairing | ICAR     |
| Digital photocopier              | 2010       | 60000.00   | On the stage of repairing | ICAR     |
| Camera                           | 2009       | 20000.00   | On the stage of repairing | ICAR     |
| CCTV                             | 2017       |            | Good                      | ICAR     |
| Projector - 02                   | 2015, 2019 |            | Good                      | ICAR     |
| Sound, Mice, Transistor - 02     | 2015, 2019 |            | Good                      | ICAR     |
| AC - 05                          | 2017       |            | Good                      | ICAR     |
| <b>D. Others</b>                 |            |            |                           |          |
| Flour Mill                       | 2019       |            | Good                      | ICAR     |
| Sewai machine                    | 2019       |            | Good                      | ICAR     |

|                         |      |  |      |      |
|-------------------------|------|--|------|------|
| Drayer                  | 2019 |  | Good | ICAR |
| Atta guthane ka machine | 2019 |  | Good | ICAR |
| Grinder machine         | 2019 |  | Good | ICAR |
| Mixture machine         | 2019 |  | Good | ICAR |
| Papad machine           | 2019 |  | Good | ICAR |
| Seal machine            | 2019 |  | Good | ICAR |
| Packging machine        | 2019 |  | Good | ICAR |
| Potato slicer           | 2019 |  | Good | ICAR |
| Potato peeling machine  | 2019 |  | Good | ICAR |
| Deep Frayer             | 2019 |  | Good | ICAR |
| Banana waffer machine   | 2019 |  | Good | ICAR |
| Banana chiefs machine   | 2019 |  | Good | ICAR |

## D) Farm implements

| Name of equipment                         | Year of purchase | Cost (Rs.) | Present status            | Source of fund |
|-------------------------------------------|------------------|------------|---------------------------|----------------|
| Cultivator                                | 2006             | 21635      | Good                      | ICAR           |
| MB Plough                                 | 2006             | 16058      | Good                      | ICAR           |
| 9 Tyne cultivator                         | 2006             | 9423       | On the stage of repairing | ICAR           |
| Hydraulic trailer                         | 2006             | 62500      | On the stage of repairing | ICAR           |
| Leveler                                   | 2006             | 7692       | On the stage of repairing | ICAR           |
| Cage wheel                                | 2006             | 5192       | Good                      | ICAR           |
| Battery operated Knapsack sprayer 16 lit. | 2016             | 4400.00    | Good                      | ICAR           |
| Rotavator                                 | 2010             |            | Good                      | ICAR           |
| Rain Gun                                  | 2018             |            | Good                      | DRPCA, Pusa    |
| Paddy Transplanter                        | 2013             |            | Good                      | ICAR           |
| Disc Harrow                               |                  |            | Good                      | ICAR           |
| Moisture Meter                            | 2013             |            | Good                      | ICAR           |
| Tensiometer                               | 2019             |            | Good                      | ICAR           |
| Cycle Hoe                                 | 2019             | 3500       | Good                      | ICAR           |
| RAU Weeder                                | 2019             |            | Good                      | ICAR           |
| Laser Land Leveler                        | 2019             |            | Good                      | ICAR           |
| Disc Plough                               | 2019             |            | Good                      | ICAR           |
| Boom Sprayer                              | 2019             |            | Good                      | ICAR           |
| Rice- Wheat Seeder                        | 2021             |            | Good                      | Govt. of Bihar |

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

| Sl.No. | Date       | Number of Participants | Salient Recommendations                                                                               | Action taken                                                                                                                     | If not conducted, state reason |
|--------|------------|------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1.     | 09.03.2021 | 27                     | ● केन्द्रमेंसीआरए कार्यक्रम के तहतसूक्ष्म सिंचाईप्रणालीलगवाना ।                                       | ● कार्ययोजनापरकामहोरहाहै ।                                                                                                       |                                |
|        |            |                        | ● एमएसटीएलवैन का रजिस्ट्रेशनकरवाना ।                                                                  | ● एमएसटीएलवैन का रजिस्ट्रेशनविश्वविद्यालय स्तर से कियाजानाहै ।                                                                   |                                |
|        |            |                        | ● कृषिविज्ञानकेन्द्र, पिपराकोठी के चाहरदीवारी के चारोतरफपौधारोपणकरवाना ।                              | ● केन्द्र की चाहरदीवारी के चारोंतरफ वृक्षारोपण का कार्यपूर्णकियाजाचुकाहै ।                                                       |                                |
|        |            |                        | ● पोषणवाटिका के प्रदर्शनइकाईमेंबोर्डपरसब्जियोंमेंउपलब्ध पोषकतत्वों के विवरणकोसूचीबद्ध करना ।          | ● अनुपालनकियाजारहाहै ।                                                                                                           |                                |
|        |            |                        | ● कुटीर एवंलघुउद्योग से जुड़ेकिसानोंको एफ.एस.एस.ए. आई(FSSAI)मेंपंजीकरणकरवाने की जानकारीप्रदानकरवाना । | ● 17 किसानों, 4 महिलासमूहों एवं 11 एफपीओं के द्वाराबनेउत्पादों का एफ.एस.एस.ए. आईपंजीकरणकरवानेहेतुजागरूकताकार्यक्रमकियाजार हाहै । |                                |
|        |            |                        | ● आलू की कुफरीसिंदुरीकिस्मकोअग्रिमपंक्तिप्रत्यक्षणमें शामिलनहींकरनाहै ।                               | ● अनुपालनकियागया ।                                                                                                               |                                |
|        |            |                        | ● प्रगतिशीलकिसानसदस्यों की संख्या कोदो से बढ़ाकरचार की जाये ।                                         | ● अनुपालनकियागया ।                                                                                                               |                                |
| 2.     | 17.12.2021 | 33                     | कार्यवाही की स्वीकृतिलंबितहै ।                                                                        |                                                                                                                                  |                                |

## List of Participants

| क्र. सं० | नाम                   | पद                                                      |
|----------|-----------------------|---------------------------------------------------------|
| 1.       | डा. अनुपमाकुमारी      | उपनिदेशकप्रसारशिक्षा, डा.रा.प्र.के.कृ.वि.वि., पूसा      |
| 2.       | डा. एस. के. पुर्वे    | प्रधानवैज्ञानिक, एमजीआईएफआरआई, पिपराकोठी                |
| 3.       | डा. अरविन्दकुमार सिंह | वरीय वैज्ञानिक एवंप्रमुख, कृषिविज्ञानकेन्द्र, पिपराकोठी |

|     |                         |                                                                                                         |
|-----|-------------------------|---------------------------------------------------------------------------------------------------------|
| 4.  | डा. चन्द्रदेवप्रसाद     | जिलाकृषिपदाधिकारी, मोतिहारी                                                                             |
| 5.  | डा. अभिषेकप्रताप सिंह   | वरीय वैज्ञानिक एवंप्रमुख, कृषिविज्ञानकेन्द्र, परसौनी                                                    |
| 6.  | डा. श्रीकांत शर्मा      | सहायकनिदेशकउद्यान, पूर्वीचम्पारण                                                                        |
| 7.  | डा. रणवीरकुमार          | परियोजनानिदेशक, आत्मा, मोतिहारी                                                                         |
| 8.  | डा. अनिलकुमार सिंह      | विषय वस्तुविशेषज्ञ (उद्यानिकी), केवीके, पिपराकोठी                                                       |
| 9.  | डा. नीलमकुमारी          | विषय वस्तुविशेषज्ञ (सामुदायिक विज्ञान) केवीके, पिपराकोठी                                                |
| 10. | डा. ठाकुरप्रसादमहतो     | सहायकप्रोफेसर (कीट विज्ञान), पी.डी.डी.यू.सी.एच.एंड.एफ, प्रोजेक्टइंचार्ज-आई.बी.डी.सी., केवीके, पिपराकोठी |
| 11. | इं. अंशूगंगवार          | विषय वस्तुविशेषज्ञ (मृदा एवं जल अभियांत्रिकी), केवीके, पिपराकोठी                                        |
| 12. | डा. शैलेन्द्रकुमाररजक   | विषय वस्तुविशेषज्ञ (पशुपालन विज्ञान) केवीके, पिपराकोठी                                                  |
| 13. | नेहापारीक               | विषय वस्तुविशेषज्ञ (मौसम विज्ञान) केवीके, पिपराकोठी                                                     |
| 14. | श्रीआशीषराय             | विषय वस्तुविशेषज्ञ (मृदा विज्ञान) केवीके, परसौनी                                                        |
| 15. | राजेशकुमार              | सीसाप्रोजेक्ट, पूर्वीचम्पारण                                                                            |
| 16. | रमेशकुमारगुप्ता         | एसआरएफ, सीआरए कार्यक्रम, पिपराकोठी                                                                      |
| 17. | आनंदकुमार               | कार्यक्रमसहायक (लैब. टेक.), केवीके, पिपराकोठी                                                           |
| 18. | अभिषेककुमार             | आशुलिपिक, कृषिविज्ञानकेन्द्र, पिपराकोठी                                                                 |
| 19. | सत्यदेवप्रसाद           | प्रगतिशीलकिसान, केवीके, परसौनी                                                                          |
| 20. | बंदना कुमारी            | प्रगतिशीलकिसान, कृषिविज्ञानकेन्द्र, परसौनी                                                              |
| 21. | पुनम शर्मा              | आमंत्रित सदस्य, कृषिविज्ञानकेन्द्र, पिपराकोठी                                                           |
| 22. | समीरदिगल                | प्रोजेक्टमैनेजर, आशीषपरियोजना, डंकन, रक्सौल                                                             |
| 23. | श्रीवकीलप्रसाद ( सीईओ ) | एफपीओ, कोटवा, पूर्वीचम्पारण                                                                             |
| 24. | अनिलकुमार               | जीविका, डीपीसीयू, मोतिहारी                                                                              |
| 25. | सुजीतकुमार ( सीईओ )     | एफपीओ, पिपराकोठी, पूर्वीचम्पारण                                                                         |
| 26. | गौरवकुमार               | स्पोर्टिंगस्टॉफ, कृषिविज्ञानकेन्द्र, पिपराकोठी                                                          |
| 27. | जय प्रकाश सिंह ( सीईओ ) | एफपीओ, हरसिद्धि, पूर्वीचम्पारण                                                                          |

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

| Sl.No. | Items                                                                                          | Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |
|--------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1      | Major Farming system/enterprise                                                                | <b>Upland:</b> (i) Rice - Wheat (ii) Rice - Tori/Potato/Lentil (iii) Maize – Wheat (iv) Maize-Potato<br><b>Medium Land:</b> (i) Rice - Wheat (ii) Sugarcane - Sugarcane + Moong (iii) Sugarcane + Lentil<br><b>Low Land:</b> (i) Rice -Wheat                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |
| 2      | Agro-climatic Zone                                                                             | East Champaran district comes under north-west alluvial plain zone of middle Gangatic region of Zone-I. The district lies in the Middle-Gangatic Plain with subtropical climate characterized by hot summer, wet monsoon and dry winter. The average annual rainfall is 1241 mm. The Maximum temperature varies from 25 to 35 <sup>0</sup> C but during summer months the temperature may go up to 46 <sup>0</sup> C or even more with hot westerly winds from March to June. The Minimum temperature varies from 4-5 <sup>0</sup> C. The relative humidity at 7 AM varies from 50 to 60% in summer months, which goes up to 90 % or more during monsoon and winter. |                                                                                                                                 |
| 3      | Agro ecological situation                                                                      | North west alluvial plains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 |
| 4      | Soil type                                                                                      | Sandy loam and Loam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                 |
| 5      | Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | <ul style="list-style-type: none"> <li>• Paddy - 28 q/ha</li> <li>• Wheat - 26 q/ha</li> <li>• Sugarcane - 384 q/ha</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Maize - 54 q/ha</li> <li>• Lentil - 12 q/ha</li> <li>• Pigeon Pea - 15 q/ha</li> </ul> |
| 6      | Mean yearly temperature, rainfall, humidity of the district                                    | Temperature- 45 °C (Max.), 5 °C (Min.)<br>Rainfall- 1242 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                 |
| 7      | Production of major livestock products like milk, egg, meat etc.                               | <b>Upland:</b> (i) Rice - Wheat (ii) Rice - Tori/Potato/Lentil (iii) Maize – Wheat (iv) Maize-Potato<br><b>Medium Land:</b> (i) Rice - Wheat (ii) Sugarcane - Sugarcane + Moong (iii) Sugarcane + Lentil<br><b>Low Land:</b> (i) Rice -Wheat                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |

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

| Sl. No. | Name of the block | Name of the villages | Major crops & enterprises          | Major problems identified (crop-wise)                   | Identified Thrust Areas                                |
|---------|-------------------|----------------------|------------------------------------|---------------------------------------------------------|--------------------------------------------------------|
| 1.      | Piprakothi        | Surajpur, Jamuniya   | Lentil seed production             | Lack of quality seed                                    | Promotion of HYV and IPM in major crops                |
| 2.      | Sangrampur        | Bariyariya           | Paddy ,Wheat, Pulses               | Lack of quality seed, time of insect pest management    | Promotion of HYV and IPM in major crops, RCT           |
| 3.      | Kotwa             | Jasauli Patti        | Paddy, Wheat, Pulses and Sugarcane | Lack of quality seed, Lack of assured irrigation system | Promotion of HVY, RCT and Efficient irrigation methods |

|     |             |                 |                                                                                   |                                                                                                    |                                                                                                    |
|-----|-------------|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 4.  | Mehasi      | Bishunpur       | Paddy, Wheat, Pulses, Bee Keeping, Horticultural crops litchi, Mango. Bee Keeping | Lack of quality seed, New technique                                                                | Promotion of HYV, Bee Keeping                                                                      |
| 5.  | Kalyanpur   | Khora           | Paddy, Wheat, Pulses                                                              | Lack of quality seed, New technique                                                                | Promotion of HYV, RCT                                                                              |
| 6.  | Chakiya     | Khairimal       | Wheat, Sugarcane, Maize                                                           | Use of local seeds, Top borer in s/c                                                               | Promotion of HYV and IPM in major crops                                                            |
| 7.  | Kotwa       | Barharwakothi   | Wheat, Sugarcane, Rice,                                                           | Use of local seeds and seed material, no seed treatment                                            | Promotion of HYV, Good cropping scheme, ZT wheat and DSR                                           |
| 8.  | Piprakothi  | Belwatiya       | Vegetable, Rice, Wheat, Moong                                                     | Use of local seed no seed treatment, use of higher dose of fertilizer, Mismanagement of irrigation | Promotion of HYV, Good cropping scheme, Zero tillage, DSR, Promotion of improved irrigation system |
| 9.  | Chakiya     | Bara Gobind     | Paddy, wheat, Arhar, oil seed and Vermi compost production                        | Use of local seeds, Mixed cropping                                                                 | Promotion of HYV, Good cropping scheme, zero tillage, DSR                                          |
| 10. | Motihari    | Chandrahiya     | Rice, Wheat, oilseed, Mushroom                                                    | Stem borer, Aphids                                                                                 | Integrated Pest Management                                                                         |
| 11. | Madhuvan    | Madhopur        | Rice, Wheat, oilseed, Bee Keeping                                                 | Use of local seed no seed treatment, use of higher dose of fertilizer                              | Promotion of Bee Keeping                                                                           |
| 12. | Piprakothi  | Bisanpur        | Rice, Wheat, oilseed, Mushroom, Vegetable                                         | Use of local seed, no seed treatment, use of higher dose of fertilizer, Lack of assured irrigation | Promotion of HYV, Good cropping scheme, Zero tillage, DSR, Promotion of Micro Irrigation system.   |
| 13. | Chakia      | Bairiya         | Wheat, Oilseed, Pulse, Rice, Maize                                                | Lack of quality seed, New technique                                                                | Promotion of HYV, Climate Resilient Technologies                                                   |
| 14. | Kalyanpur   | Madhopur Govind | Wheat, Oilseed, Pulse, Rice, Potato, Maize                                        | Lack of quality seed, New technique                                                                | Promotion of HYV, Climate Resilient Technologies                                                   |
| 15. | Pakadidayal | Chaita          | Pulse                                                                             | Lack of quality seed, IPM, INM, Seed treatment                                                     | Promotion of HYV, IPM and INM, Bio-fertilizers                                                     |
| 16. | Kalyanpur   | Mani Chapra     | Organic farming                                                                   | Use of excessive chemical fertilizers                                                              | Vermi compost, Compost, Bio-fertilizers                                                            |

## 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                                               |
|-----------------|------------|----------------------------------------------------------------------------|
| PaltuBelwa      | Kalyanpur  | Crop Residue Management, Farm mechanization, FLD                           |
| Jamunia         | Chakia     | INM, HYV of Wheat, Red Rot resistance variety of sugarcane, OFT, FLD, CFLD |
| Mani Chapra     | Kalyanpur  | Organic farming, CFLD                                                      |
| Semra           | Piprakothi | Animal Production, CFLD                                                    |
| Pipradih        | Piprakothi | Nutritional garden, Mushroom production and value addition, FLD and OFT    |

Karariya

Kotwa

Resource conservation technologies, FLD and OFT

## 2.1 Priority thrust areas

| S. No. | Thrust area                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------|
| 1.     | Introduction of HYV of cereals, pulses, oil seeds, vegetables and fruits                                 |
| 2.     | Identification of insect, pest and application of IPM measure as well as other chemical control measures |
| 3.     | Production and distribution of quality seeds and planting materials                                      |
| 4.     | Emphasis on resource conservation technologies                                                           |
| 5.     | Formation of Social group and making its entrepreneur                                                    |
| 6.     | Promotion of organic Farming and vermi-composting                                                        |
| 7.     | Promotion of horticulture for making the rural youth self-employed                                       |
| 8.     | Promotion of small equipment's and tools for drudgery reduction                                          |
| 9.     | Promotion of efficient irrigation techniques for water conservation                                      |
| 10.    | Post-harvest losses management and storage structures                                                    |
| 11.    | Promotion of value addition to enhance earnings                                                          |
| 12.    | Promotion of crop residue management through farm mechanization                                          |
| 13.    | Promotion of solar pumps for irrigation                                                                  |
| 14.    | Promotion of groundwater recharge through rural groundwater recharge structures                          |
| 15.    | Promotion of Micro Irrigation system (Drip and Sprinkler)                                                |
| 16.    | Promotion of climate resilient technologies for sustainable crop production                              |
| 17.    | Promotion of intercropping in orchards and sugarcane                                                     |



### 3. TECHNICAL ACHIEVEMENTS

#### 3.A.Summary details of target and achievement of mandatory activities by KVK during the year2021

| 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   |
| 10                          | 10          | 89                | 15          | 02 | 0  | 0 | 66     | 06 | 81    | 08 | 89 | 10                                | 10          | 250               | 65          | 14 | 0  | 0 | 191    | 25 | 256   | 39 | 295 |

| 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     |
| 194               | 170         | 5820                   | 772         | 161 | 0  | 0 | 3326   | 425 | 4100  | 620 | 4720 | 362                  | 860         | 18750                  | 7698        | 953 | 0  | 0 | 23096  | 2224 | 30794 | 3177 | 33971 |

| Impact of capacity building    |             |    |    |    |   |        |    |       |    |     | Impact of Extension activities                                                            |             |    |   |    |   |        |   |       |   |   |
|--------------------------------|-------------|----|----|----|---|--------|----|-------|----|-----|-------------------------------------------------------------------------------------------|-------------|----|---|----|---|--------|---|-------|---|---|
| Number of Participants trained |             |    |    |    |   |        |    |       |    |     | Number of Trainees 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 |
| 305                            | 584         | 44 | 13 | 0  | 0 | 474    | 53 | 518   | 66 | 584 |                                                                                           |             |    |   |    |   |        |   |       |   |   |

| Seed production (q) |  |  |             |  |  | Planting material (in Lakh) |  |  |             |  |  |
|---------------------|--|--|-------------|--|--|-----------------------------|--|--|-------------|--|--|
| Target              |  |  | Achievement |  |  | Target                      |  |  | Achievement |  |  |
| 277                 |  |  | 289.8       |  |  | 0.50                        |  |  | 0.53        |  |  |

| Livestock strains and fish fingerlings produced (in lakh)* |  |  |             |  |  | Soil, water, plant, manures samples tested (in lakh) |  |  |             |  |  |
|------------------------------------------------------------|--|--|-------------|--|--|------------------------------------------------------|--|--|-------------|--|--|
| Target                                                     |  |  | Achievement |  |  | Target                                               |  |  | Achievement |  |  |
|                                                            |  |  |             |  |  | 0.01                                                 |  |  | 0.0068      |  |  |

\* 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                      | 01        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Seminar/conference/symposia papers  | 05        |                |                                               |                                        |                                         | Best Poster presentation award         | Effect of varying potassium levels on yield and economic parameters of Direct Seeded Rice- DSR ( <i>Oryza sativa</i> L.) |
| Books                               | 01        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Bulletins                           | 01        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| News letter                         | 00        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Popular Articles                    | 02        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Book Chapter                        | 00        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Extension Pamphlets/literature      | 07        | 266            |                                               |                                        |                                         |                                        |                                                                                                                          |
| Technical reports                   | 00        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| Electronic Publication (CD/DVD etc) | 00        |                |                                               |                                        |                                         |                                        |                                                                                                                          |
| <b>TOTAL</b>                        | <b>17</b> |                |                                               |                                        |                                         |                                        |                                                                                                                          |

### 3.1.1 Achievements on technologies assessed and refined

**(Year: 2020-21, OFT which were started in 2020 and completed during the year 2021)**

### Discipline: Agronomy

#### OFT-1

|    |                                                                                                    |                                                                                                                                                                                                                                                                   |
|----|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                                                             | <b>Effects of Lentil and Moongbean Establishment method with Best management practice of both crops.</b>                                                                                                                                                          |
| 2. | Problem diagnosed                                                                                  | Low productivity of Lentil and Moongbean                                                                                                                                                                                                                          |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmer practice:</b> Established by conventional method<br><b>TO-I:</b> Establishment by Happy seeder in Lentil.<br><b>TO-II:</b> Establishment by Zero Tillage in Lentil and Moongbean<br><b>TO-III:</b> Establishment by seed drill in Lentil and Moongbean. |

|    |                                                             |                                                                                                                                                                                |
|----|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify) | RPCAU, Pusa                                                                                                                                                                    |
| 5. | Production system and thematic area                         | Establishment method and BMP                                                                                                                                                   |
| 6. | Performance of the Technology with performance indicators   | To evaluate best crop establishment method in major pulses of this district.<br>Indicators:<br>i. No. of plants per meter square.<br>ii. No. of panicles.<br>iii. Test weight. |
| 7. | Final recommendation for micro level situation              | Technological option II (Establishment by Zero Tillage in Lentil and Moongbean) was found most suitable and recorded maximum yield and BC Ratio in both the crops.             |
| 8. | Constraints identified and feedback for research            |                                                                                                                                                                                |
| 9. | Process of farmers participation and their reaction         | i. Field visit<br>ii. Face to face conversation.                                                                                                                               |

Technology assessed:

**Table 1: Effects of Lentil Establishment methods**

| Technology option | No. of trials | No. of plants per meter square | No. of pods | Test weight | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio | Weed infestation | H.I. (%) |
|-------------------|---------------|--------------------------------|-------------|-------------|--------------|------------------------------|----------------------|---------------------|-----------|------------------|----------|
| <b>FP</b>         | 07            | 110                            | 2640        | 27.8        | 8.30         | 16790                        | 36860                | 20070               | 2.19      | High             | 36       |
| <b>TO-I</b>       |               | 128                            | 3580        | 31.6        | 11.60        | 16200                        | 51040                | 34840               | 3.15      | Low              | 33       |
| <b>TO-II</b>      |               | 138                            | 3660        | 32.3        | 12.80        | 15640                        | 56320                | 40680               | 3.60      | Medium           | 32       |
| <b>TO-III</b>     |               | 133                            | 3525        | 31.0        | 12.30        | 18750                        | 54120                | 35370               | 2.88      | High             | 33       |

**Table 2: Effects of Moongbean Establishment methods**

| Technology option | No. of trials | No. of plants per meter square | No. of pods | Test weight | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio | Weed infestation | H.I. (%) |
|-------------------|---------------|--------------------------------|-------------|-------------|--------------|------------------------------|----------------------|---------------------|-----------|------------------|----------|
| <b>FP</b>         | 07            | 22                             | 396         | 38.3        | 7.10         | 14600                        | 39760                | 25160               | 2.72      | High             | 30       |
| <b>TO-I</b>       |               | 35                             | 672         | 41.8        | 10.25        | 12750                        | 57400                | 44650               | 4.50      | Low              | 28       |
| <b>TO-II</b>      |               | 32                             | 704         | 42.3        | 10.90        | 11180                        | 61040                | 49860               | 5.45      | Medium           | 27       |
| <b>TO-III</b>     |               | 30                             | 630         | 41.1        | 10.15        | 13650                        | 56840                | 43190               | 4.14      | High             | 28       |

**Results: Technological option II** (Establishment by Zero Tillage in Lentil and Moongbean) was found most suitable and recorded maximum yield and BC Ratio in both the crops.

### Discipline: Home Science

#### OFT-2

|    |                                                                                                    |                                                                                                                                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Effect of complimentary food on the nutritional status of 6-12 months old children. (2<sup>nd</sup> Year)</b>                                                                                                                                                         |
| 2. | Problem diagnosed                                                                                  | Lack of knowledge about complimentary food, stage of weaning which results in poor health status of infants.                                                                                                                                                             |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmers Practice:</b> Exclusively breast feeding up to 12 months onward.<br><b>TO-I:</b> Breast feeding with ordinary home diet.<br><b>TO-II:</b> Breast feeding with ordinary home diet + weaning mix.                                                               |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | RPCAU, Pusa                                                                                                                                                                                                                                                              |
| 5. | Production system and thematic area                                                                | Women and child care.                                                                                                                                                                                                                                                    |
| 6. | Performance of the Technology with performance indicators                                          | 25-50 g weaning mix will be given to selected children according to their age for the period of 3 months. Weaning mix prepared at KVK with cereals, pulses, groundnut and carrot powder and sugar.<br>Regular observation of height and weight of children will be done. |

|    |                                                     |                                                                                                                                                                                 |
|----|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                     | Growth curve will be drawn for each child on growth chart (ICDS).                                                                                                               |
| 7. | Final recommendation for micro level situation      | <b>Technological option II</b> (Breast feeding with ordinary home diet + weaning mix) was found most suitable in 6 - 12 month children for effective gaining weight and height. |
| 8. | Constraints identified and feedback for research    |                                                                                                                                                                                 |
| 9. | Process of farmers participation and their reaction | i. Field visit<br>ii. Face to Face conversation.                                                                                                                                |

**No. of Trials: 30**

**Table : Effect of complimentary food on weight and height of 6 - 12 month children.**

| Technology Options                                                                      | Weight (Kg) | Height (cm) | Ingredient's used<br>• Wheat malt<br>• Roasted Green Gram<br>• Roasted groundnut                                                                |
|-----------------------------------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Farmers Practice:</b><br>Exclusively breast feeding up to 12 months onward.          | 0.22        | 0.8         |                                                                                                                                                 |
| <b>Technological option I</b><br>Breast feeding with ordinary home diet.                | 0.29        | 1.3         |                                                                                                                                                 |
| <b>Technological option II</b><br>Breast feeding with ordinary home diet + weaning mix. | 0.57        | 1.62        | Nutrient content /100 gm of complimentary food.<br>• calorie - 381.0<br>• Protein (gm) - 17.31<br>• Iron (mg) - 4.61<br>• Carotene (mg) - 50.65 |
|                                                                                         |             |             |                                                                                                                                                 |

**Results: Technological option II** (Breast feeding with ordinary home diet + weaning mix) was found most suitable in 6 - 12 month children for effective gaining weight and height.

## Discipline: Home Science

### OFT-3

|    |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Domestic Scale Preservation of vegetables.</b>                                                                                                                                                                                                                                                                                                        |
| 2. | Problem diagnosed                                                                                  | <ul style="list-style-type: none"> <li>• Lack of knowledge in preservation</li> <li>• Spoilage of fruits and vegetables due to lack of preservation techniques knowledge.</li> </ul>                                                                                                                                                                     |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>FP:</b> Sun drying of seasonal vegetables like cauliflower with put any treatment<br><b>TO-I:</b> Seasonal cauliflower, carrot, peas etc. (mixed pickle) without drying and any chemical preservatives<br><b>TO-II:</b> Mixed pickle after drying in sunlight without preservatives<br><b>TO-III:</b> Mixed pickle after blanching with preservatives |
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify)                                        | College of Community Science, RPCAU, Pusa.                                                                                                                                                                                                                                                                                                               |
| 5. | Production system and thematic area                                                                | Value Addition                                                                                                                                                                                                                                                                                                                                           |
| 6. | Performance of the Technology with performance indicators                                          | To assess the quality after preserving the vegetables on domestic scale.<br>Indicators: <ol style="list-style-type: none"> <li>1. Self like</li> <li>2. Colour</li> <li>3. Flavour</li> </ol>                                                                                                                                                            |
| 7. | Final recommendation for micro level situation                                                     | <b>Technological option II</b> (Preparation of Mixed pickle by blanching, sun drying with addition of chemical preservative) was found most effective treatment for domestic scale preservation of mixed vegetable pickles.                                                                                                                              |
| 8. | Constraints identified and feedback for research                                                   | Newly started.                                                                                                                                                                                                                                                                                                                                           |
| 9. | Process of farmers participation and their reaction                                                | <ol style="list-style-type: none"> <li>i. Field visit</li> <li>ii. Face to face conversation</li> </ol>                                                                                                                                                                                                                                                  |

**No. of Trials: 07**

**RESULTS: Technological option II** (Preparation of Mixed pickle by blanching, sun drying with addition of chemical preservative) was found most effective treatment for domestic scale preservation of mixed vegetable pickles.

| Technological options                                                                                                                                                     | Self life Days/<br>Month | Sensory attributes |                 |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-----------------|-----------|
|                                                                                                                                                                           |                          | Color              | Flavor          | Taste     |
| <b>Farmers' Practice</b><br>Sun drying of mixed pickle made by seasonal vegetable like Carrot, Peas Cauliflower without any treatment.                                    | 10 days                  | Decline by Time    | Decline by time | Not Good  |
| <b>Technological option I</b><br>Preparation of Mixed pickle without Sun drying with addition of chemical Preservative (Glacial acetic acid).                             | 1 month                  | Decline by Time    | Good            | Good      |
| <b>Technological option II</b><br>Preparation of Mixed pickle by following the method blanching, sun drying with addition of chemical preservative (Glacial acetic acid). | More than 6 months       | Very Good          | Very Good       | Very Good |

### Discipline: Horticulture

#### OFT-4

|    |                                                                                                    |                                                                                                                 |
|----|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                                                             | Effect of stagger planting of <i>Gladiolus</i> for better bloom. (2 <sup>nd</sup> Year)                         |
| 2. | Problem diagnosed                                                                                  | Lower size of spike & low yield of corms and inferior quality of flowers.                                       |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>FP:</b> 30 cm x 30 cm<br><b>TO1:</b> 30 cm x 20 cm<br><b>TO2:</b> 20 cm x 20 cm<br><b>TO3:</b> 20 cm x 15 cm |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | RPCAU, Pusa                                                                                                     |
| 5. | Production system and thematic area                                                                | Floriculture                                                                                                    |

|    |                                                           |                                                                                                                                                                                                                  |
|----|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. | Performance of the Technology with performance indicators | To standardize the ideal spacing for gladiolus cultivation in Bihar condition for quality & yield.<br>i. Yield (spikes)                                                                                          |
| 7. | Final recommendation for micro level situation            | Amongst the demonstrated technology <b>Technological option- I</b> recorded maximum spikes Production (1.99lakh/ha) that was 0.43% higher yield as in compare to farmer practice having maximum BC ratio (1.43). |
| 8. | Constraints identified and feedback for research          |                                                                                                                                                                                                                  |
| 9. | Process of farmers participation and their reaction       | i. Field visit<br>ii. Face to face conversation.                                                                                                                                                                 |

**Table: Effect of different spacing for better bloom of *Gladiolus***

| Treatments                                       | No. of Trials | Yield (Spike in Lakh/ha) | % Increase in yield | Cost of cultivation (Rs /ha) in lakh | Gross return (Rs/ha) in lakh | Net return (Rs/ha) in lakh | B:C ratio |
|--------------------------------------------------|---------------|--------------------------|---------------------|--------------------------------------|------------------------------|----------------------------|-----------|
| <b>Farmers' Practice</b><br>30 cm x 30 cm        | 05            | 1.56                     |                     | 4.10                                 | 4.68                         | 0.58                       | 1.14      |
| <b>Technological option I</b><br>30 cm x 20 cm   |               | 1.99                     | 0.43                | 4.15                                 | 5.97                         | 1.82                       | 1.43      |
| <b>Technological option II</b><br>20 cm x 20 cm  |               | 1.91                     | 0.35                | 4.16                                 | 5.73                         | 1.57                       | 1.37      |
| <b>Technological option III</b><br>20 cm x 15 cm |               | 1.87                     | 0.31                | 4.17                                 | 5.61                         | 1.44                       | 1.34      |

**Results:** Amongst the demonstrated technology **Technological option- I** recorded maximum spikes Production (1.99lakh/ha) that was 0.43% higher yield as in compare to farmer practice having maximum BC ratio (1.43).



**Discipline: Horticulture****OFT-5**

|    |                                                                                                    |                                                                                                                                                                               |
|----|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Induction of regular and early flowering in Mango through <u>Paclobutrazol</u>. (2<sup>nd</sup> Year)</b>                                                                  |
| 2. | Problem diagnosed                                                                                  | Irregular bearing in Mango.                                                                                                                                                   |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | Farmer's practice : Without use of cultar<br>TO-I :Use of cultar @ 20 ml/tree<br>TO -II : Use of cultar @ 30 ml/tree (Recommended practice)                                   |
| 4. | Source of Technology (ICAR/<br>AICRP/SAU/other, please specify)                                    | <b>JAU, Gujarat</b>                                                                                                                                                           |
| 5. | Production system and thematic area                                                                | Orchard management                                                                                                                                                            |
| 6. | Performance of the Technology with performance indicators                                          | To induce early and profuse flowering in alternate bearing cultivars of Mango.<br>Indicators:<br>i. No. of fruits/plant.<br>ii. Advance inflowering (days).<br>iii. Yield/ha. |
| 7. | Final recommendation for micro level situation                                                     | <b>Treatment TO-II</b> (Use of cultar @ 30 ml/tree ) recorded maximum yield per tree (91.65 kg) and over all yield per hectare (113.89 q/ha) with maximum BC ratio (2.59).    |
| 8. | Constraints identified and feedback for research                                                   |                                                                                                                                                                               |
| 9. | Process of farmers participation and their reaction                                                | i. Field visit<br>ii. Face to face conversation.                                                                                                                              |

| <b>Technological options</b>                                 | <b>No. of Trials</b> | <b>No. of Fruits per plant</b> | <b>Advance in flowering (days)</b> | <b>Yield (kg/Tree)</b> | <b>Yield (q/ha)</b> | <b>Cost of cultivation (Rs /ha)</b> | <b>Gross return (Rs/ha)</b> | <b>Net return (Rs/ha)</b> | <b>B:C ratio</b> |
|--------------------------------------------------------------|----------------------|--------------------------------|------------------------------------|------------------------|---------------------|-------------------------------------|-----------------------------|---------------------------|------------------|
| <b>Farmers' Practice</b><br>Without use of cultar            | 05                   | 276.50                         |                                    | 52.36                  | 64.92               | 85000                               | 194760                      | 109760                    | 1.29             |
| <b>Technological option I</b><br>Use of cultar @ 20 ml/tree  |                      | 289.65                         | 12.74                              | 86.85                  | 107.69              | 93000                               | 323070                      | 230700                    | 2.47             |
| <b>Technological option II</b><br>Use of cultar @ 30 ml/tree |                      | 309.25                         | 15.20                              | 91.65                  | 113.89              | 95000                               | 341670                      | 246670                    | 2.59             |

## Discipline: Agricultural engineering (SWE)

### OFT-1

|    |                                                                                                    |                                                                                                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Performance Assessment of Different Manually Operated Weeders in Pigeon Pea Field. (2nd year)</b>                                                                                                                                                 |
| 2. | Problem diagnosed                                                                                  | Generally weeding operation in Pigeon pea is done by using Khurpi. This technique is time consuming and required huge manpower.                                                                                                                      |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmer's Practice</b> :Conventional Technique (Khurpi)<br><b>TO-I:</b> RAU Manual Weeder<br><b>TO-II</b> :KVK Madhopur Cycle Hoe                                                                                                                  |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | KVK, Madhopur, Dr. RPCAU, Pusa.                                                                                                                                                                                                                      |
| 5. | Production system and thematic area                                                                | Farm Mechanization                                                                                                                                                                                                                                   |
| 6. | Performance of the Technology with performance indicators                                          | i. Weeding Efficiency (%)<br>ii. Field Capacity(ha/h)<br>iii. Yield (tonnes/ha)<br>iv. Benefit Cost ratio                                                                                                                                            |
| 7. | Final recommendation for micro level situation                                                     | <b>Technological option II</b> (KVK Madhopur cycle hoe) was found to be most effective implement for the management of weed in pigeon pea crop. By using this we have achieved yield i.e. 12.68 q/ha along with achieve maximum B:C ratio i.e. 3.13. |
| 8. | Constraints identified and feedback for research                                                   |                                                                                                                                                                                                                                                      |
| 9. | Process of farmers participation and their reaction                                                | i. Field visit<br>ii. Face to face conversation.                                                                                                                                                                                                     |

**Table : Performance of different manually operated weeders in weed management**

| Technological options                                       | No. of Trials | Weeding Efficiency (%) | Actual Field Capacity (ha/h) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio |
|-------------------------------------------------------------|---------------|------------------------|------------------------------|--------------|------------------------------|----------------------|---------------------|-----------|
| <b>Farmers' Practice</b><br>Conventional Technique (Khurpi) | 07            | 98                     | 0.002                        | 10.21        | 24880                        | 51050                | 26170               | 2.05      |
| <b>Technological option I</b><br>RAU Manual Weeder          |               | 91                     | 0.014                        | 11.72        | 21500                        | 58600                | 37100               | 2.73      |
| <b>Technological option II</b><br>KVK Madhopur Cycle Hoe    |               | 95                     | 0.021                        | 12.68        | 20250                        | 63400                | 43150               | 3.13      |

**Discipline: Agricultural engineering (SWE)****OFT-2**

| 1. | Title of On farm Trial                                                                             | Evaluation of the performance of improved tillage practices in Wheat crop                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | Problem diagnosed                                                                                  | <ul style="list-style-type: none"> <li>• Reduce Cost of Cultivation</li> <li>• Management of Crop residue</li> </ul>                                                                                                                           |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>FP:</b> Conventional tillage(2 harrowing + 2 ploughing)<br><b>TO<sub>1</sub>:</b> Reduced Tillage(1 harrowing + 1 ploughing)<br><b>TO<sub>2</sub>:</b> Zero tillage (Zero till drill)<br><b>TO<sub>2</sub>:</b> Zero tillage (Happy Seeder) |
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify)                                        | SVPUA&T, Meerut                                                                                                                                                                                                                                |
| 5. | Production system and thematic area                                                                | Farm Mechanization                                                                                                                                                                                                                             |
| 6. | Performance of the Technology with performance indicators                                          | <ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Growth of Root zone</li> <li>• Number of irrigation</li> <li>• Yield</li> </ul>                                                                                        |
| 7. | Final recommendation for micro level situation                                                     | <b>TO-III</b> (Sowing of wheat with Happy Seeder under no till condition) was found most effective which provided maximum yield (51.57 q /ha) as well as highest B:C ratio (2.78).                                                             |
| 8. | Constraints identified and feedback for research                                                   |                                                                                                                                                                                                                                                |
| 9. | Process of farmers participation and their reaction                                                | i. Field visit<br>ii. Face to face conversation.                                                                                                                                                                                               |

**Table: Performance of improved tillage practices in Wheat crop**

| Technology options                                                                                           | No. of Trials | No. of Effective tillers | No. of Plants in Per sqm | Plant Height (cm) | yield (q/ha) | No. of Irrigation | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio |
|--------------------------------------------------------------------------------------------------------------|---------------|--------------------------|--------------------------|-------------------|--------------|-------------------|------------------------------|----------------------|---------------------|-----------|
| <b>FP</b><br>Conventional tillage (2 harrowing + 2 ploughing) + Broadcasting                                 | <b>07</b>     | 3                        | 82                       | 95.6              | 34.85        | 2                 | 34650                        | 64473                | 29823               | 1.86      |
| <b>TO-1</b><br>Reduced Tillage (1 harrowing + 1 ploughing) + Line sowing with Zero till cum ferti seed drill |               | 4                        | 87                       | 98.2              | 44.71        | 3                 | 32500                        | 82714                | 50214               | 2.54      |
| <b>TO-II</b><br>Sowing with zero till cum ferti seed drill ( No Till or Zero tillage)                        |               | 6                        | 94                       | 101.2             | 48.92        | 3                 | 29900                        | 90502                | 60602               | 3.02      |
| <b>TO-III</b><br>Sowing with Happy Seeder (No Till)                                                          |               | 5                        | 88                       | 101.6             | 46.37        | 3                 | 30850                        | 85786                | 54936               | 2.78      |

**Discipline: Agro meteorology****OFT-2**

|    |                                                                                                    |                                                                                                                                                                                                                                                |
|----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Economic Assessment of Weather Based Agromet Advisories for Wheat crop, Champaran District</b>                                                                                                                                              |
| 2. | Problem diagnosed                                                                                  | • Lack of knowledge to use Agromet Advisories                                                                                                                                                                                                  |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | RPCAU, Pusa, Samastipur                                                                                                                                                                                                                        |

|    |                                                           |                                                                                                                                                                                                                                                                                      |
|----|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | Production system and thematic area                       | Agromet Advisory                                                                                                                                                                                                                                                                     |
| 6. | Performance of the Technology with performance indicators | <ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Biomass</li> <li>• Yield</li> </ul>                                                                                                                                                                          |
| 7. | Final recommendation for micro level situation            | Amongst the demonstrated technology, <b>technology option -II</b> (Cultivation practices after referring Weather Forecast and Agromet Advisories) was found to be most effective treatment which recorded maximum grain yield of Wheat i.e. 52 q/ha and maximum B:C ratio i.e. 1.96. |
| 8. | Constraints identified and feedback for research          |                                                                                                                                                                                                                                                                                      |
| 9. | Process of farmers participation and their reaction       | I. Field visit<br>II. Face to face conversation.                                                                                                                                                                                                                                     |

**Table: Assessment of Weather Based Agromet Advisories for Wheat crop**

| Technological options                                                                                            | No. of Trials | Yield (q/ha) | Biomass (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|------------------------------------------------------------------------------------------------------------------|---------------|--------------|----------------|------------------------------|----------------------|---------------------|----------|
| <b>Farmers' Practice</b><br>Cultivation practices without referring Agromet Advisories.                          | 05            | 35           | 6              | 45760                        | 60400                | 14640               | 1.32     |
| <b>Technological option I</b><br>Cultivation practices with referring Weather Forecast only.                     |               | 40           | 10             | 42200                        | 69250                | 27050               | 1.64     |
| <b>Technological option II</b><br>Cultivation practices after referring Weather Forecast and Agromet Advisories. |               | 52           | 15             | 41110                        | 80760                | 39650               | 1.96     |

(Year: 2021-22)

**OFT-01****Discipline: Home Science**

|    |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Assessment of preparation method of litchi squash.</b>                                                                                                                                                                                                                                                                                                                                                                              |
| 2. | Problem diagnosed                                                                                  | • Lack of knowledge in preservation                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>F.P:</b> Sell fruits to processors at very low or throw away price<br><b>TO I::</b> Process for preparation of litchi squash<br><b>Formulation (Product specifications)</b><br>Litchi pulp: 25%, TSS: 40°B, Acidity : 0.8%, 350 ppm SO <sub>2</sub><br><b>T.O.-2:</b> Process for preparation of litchisquash<br><b>Formulation (Product specifications)</b><br>Litchi pulp: 25%, TSS: 45°B, Acidity :1.2%, 350 ppm SO <sub>2</sub> |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | College of Community Science, RPCAU, Pusa                                                                                                                                                                                                                                                                                                                                                                                              |
| 5. | Production system and thematic area                                                                | Value addition                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6. | Performance of the Technology with performance indicators                                          | <ul style="list-style-type: none"> <li>• TSS (Refractometer)</li> <li>• Acidity (Titration with 0.1N NaOH)</li> <li>• Sensory score (9-point Hedonic scale)</li> </ul>                                                                                                                                                                                                                                                                 |
| 7. | Final recommendation for micro level situation                                                     | The Panel of 10 Judges comprising of faculty members and young professionals of KVK, Piprakothe were selected for the evaluation of the Litchi Squash. As per their sensory evaluation (9 point Hedonic Scale) over all acceptability of the T. O. 1 is better than T. O. 2.                                                                                                                                                           |
| 8. | Constraints identified and feedback for research                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9. | Process of farmers participation and their reaction                                                | i. Field visit<br>ii. Face to face conversation.                                                                                                                                                                                                                                                                                                                                                                                       |

**Results:****Sensory Characteristics of Litchi Squash**

|                                |                      | <b>T. O. I</b> |              |              |                              | <b>T. O. II</b> |              |              |                              |
|--------------------------------|----------------------|----------------|--------------|--------------|------------------------------|-----------------|--------------|--------------|------------------------------|
| <b>Hedonic Scale (9 Point)</b> | <b>No. of Trials</b> | <b>Color</b>   | <b>Aroma</b> | <b>Taste</b> | <b>Overall Acceptability</b> | <b>Color</b>    | <b>Aroma</b> | <b>Taste</b> | <b>Overall Acceptability</b> |
| Like Moderately                | 30                   | 02             | 03           | 00           | 00                           | 02              | 01           | 01           | 01                           |
| Like Very Much                 |                      | 03             | 02           | 04           | 04                           | 03              | 06           | 04           | 05                           |
| Like Extremely                 |                      | 05             | 05           | 06           | 06                           | 05              | 03           | 05           | 04                           |

*Note:- Digit in table indicates number of Judges.*

**OFT-02****Discipline: Home Science**

|   |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>Title of On Farm Trial</b>                              | <b>Assessment of preparation methods of Carrot Paste for more shelf life, enhancement of nutrition &amp; income.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2 | Problem Diagnose                                           | Lack of knowledge in preservation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3 | Details of Technologies selected for assessment/refinement | <b>F.P.:</b> Local people consume fresh carrot as such as vegetables or juice.<br><b>T.O.1:</b> Preparation of Carrot Paste<br><b>Formulation - Ingredients</b><br>Carrot- 1.0kg, Sugar-250g, Salt-50g, Glacial Ascectic acid -5.0ml, Sodium Benzoate- 1.5g<br><b>T.O. 2:</b> Preparation of Carrot Paste with spices.<br><b>Formulation - Ingredients</b><br>Carrot- 1.0kg, Sugar-250g, Salt-50g, Glacial Ascectic acid -2.0ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon & cardamom powder-5.0g, Sodium Benzoate- 1.5g<br><b>T.O. 3:</b> Preparation of Carrot paste blended with tomatoes<br><b>Formulation - Ingredients</b><br>Carrot- 500g, Tomatoes- 500g, Sugar-250g, Salt-50g, Glacial Ascectic acid - |

|    |                                                      |                                                                                                                                                                                                                                                               |
|----|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                      | 2.0ml, Red chili powder-3.0g, dried Ginger powder- 5.0g, dried black pepper powder-2.0g, Cinnamon & cardamom powder-5.0g, Sodium Benzoate- 1.5g                                                                                                               |
| 4  | Source of Technology                                 | College of Community Science, RPCAU, Pusa                                                                                                                                                                                                                     |
| 5  | Replication                                          | 07                                                                                                                                                                                                                                                            |
| 6  | Production System & Thematic Area                    | Value Addition                                                                                                                                                                                                                                                |
| 7  | Performance of Technology with performance indicator | 1. TSS (%)<br>2. Sensory Analysis:<br>i. Taste ii. Colour iii. Flavour iv. Texture (mouth feel) v. Overall Acceptability<br>3. Packaging Material: Glass jar/PET jar 500g)<br>4. Shelf life (0, 15, 30, 45, 60 and 75 days at Ambient/ Refrigerated condition |
| 8  | Final recommendation for micro level situation       | <b>Ongoing</b>                                                                                                                                                                                                                                                |
| 9  | Constraints identified and feedback for research     | New OFT                                                                                                                                                                                                                                                       |
| 10 | Process of farmers participation and their reaction  | Through Training, demonstration and field day                                                                                                                                                                                                                 |

### OFT: 03

#### Discipline: Horticulture

|   |                                                            |                                                                                             |
|---|------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1 | <b>Title of On Farm Trial</b>                              | <b>Effect of recommended dose of fertilizer along with Boron application in cauliflower</b> |
| 2 | Problem Diagnose                                           | The crop suffers from deficiency of Boron ( causes Brown heart and browning)                |
| 3 | Details of Technologies selected for assessment/refinement | <b>Farmer practice</b> :RDF of NPK without boron application                                |
|   |                                                            | <b>T.O.-1-</b> RDF of NPK along with 5 kg /ha boron application                             |
|   |                                                            | <b>T.O.-2-</b> RDF of NPK along with 10 kg/ha boron application                             |
| 4 | Source of Technology                                       | IAS, BHU, Varanasi                                                                          |
| 5 | Replication                                                | 05                                                                                          |
| 6 | Production System & Thematic Area                          | Planting material production                                                                |



|    |                                                      |                                                                   |
|----|------------------------------------------------------|-------------------------------------------------------------------|
| 7  | Performance of Technology with performance indicator | Curd wt/plant (gm), Browning/Brown heart (in %), yield, B:C Ratio |
| 8  | Final recommendation for micro level situation       | <b>On going</b>                                                   |
| 9  | Constraints identified and feedback for research     | New OFT                                                           |
| 10 | Process of farmers participation and their reaction  | Field visit<br>Face to face conversation.                         |

### OFT: 04

#### Discipline: Horticulture

|    |                                                            |                                                                                                                                                                                 |
|----|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Title of On Farm Trial</b>                              | <b>Assessment of micronutrient spray for management of fruit cracking problems in litchi in East Champaran</b>                                                                  |
| 2  | Problem Diagnose                                           | Severe fruit cracking reduces yield and market value                                                                                                                            |
| 3  | Details of Technologies selected for assessment/refinement | <b>FP:</b> No application of Borax<br><b>TO I:</b> Spraying of borax 0.2 % during December- January<br><b>TO II:</b> Spraying of borax (0.2 % spray after 15 days of fruit set) |
| 4  | Source of Technology                                       | NRC (ICAR) Muzaffarpur                                                                                                                                                          |
| 5  | Replication                                                | 5                                                                                                                                                                               |
| 6  | Production System & Thematic Area                          | Orchard based cultivation of fruit                                                                                                                                              |
| 7  | Performance of Technology with performance indicator       | (i) % Reduction in fruit cracking (ii)Yield (q/ha), (iii)BC Ratio                                                                                                               |
| 8  | Final recommendation for micro level situation             | <b>On going</b>                                                                                                                                                                 |
| 9  | Constraints identified and feedback for research           | New OFT                                                                                                                                                                         |
| 10 | Process of farmers participation and their reaction        | Through Training, demonstration and field day                                                                                                                                   |

**OFT: 05****Discipline: Veterinary Science**

|            |                                                            |                                                                                                                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | <b>Title of On Farm Trial</b>                              | <b>Validation of Ovysynch and Heatsynch protocols in postpartum anoestrus cows</b>                                                                                                                                                                                                                                                                                           |
| <b>2.</b>  | Problem diagnosed                                          | Anoestrus in dairy cattle occurs due to nutritional, hormonal imbalance, infection and environmental stress agent also                                                                                                                                                                                                                                                       |
| <b>3.</b>  | Production system/Thematic area                            | Calf production, Milk production and Anoestrus management                                                                                                                                                                                                                                                                                                                    |
| <b>4.</b>  | Source of Technology                                       | Pursley, J.r., Mee, M.O., Wiltbank, M.C. 1995. Synchronization of ovulation...PGF2 alpha and GnRH. Theriogenology 44;915-923                                                                                                                                                                                                                                                 |
| <b>5.</b>  | Replication                                                | 10                                                                                                                                                                                                                                                                                                                                                                           |
| <b>6.</b>  | Details of technologies selected for assessment/refinement | <b>Farmers Practice :</b> Dewormer (Fenbendazole 3g) +Phosphorous 80 mg i/m+multi mineral@1 bolus orally for 7 days<br><b>T.O.-1-</b> D0- GnRH (Buserlin) 10 ug, D7; PGF2 alpha 500 ug; D9; GnRH (Buserlin) 10 ug and D10; Fixed time AI (Ovy Synch)<br><b>T.O.-2-</b> D0- GnRH (Buserlin) 10 ug, D7; PGF2 alpha 500 ug; D8; Oestradiol 1 mg; D10; Fixed Time AI (Heatsynch) |
| <b>7.</b>  | Critical input                                             | GnRH, PGF2 alpha, Oestradiol, A.I                                                                                                                                                                                                                                                                                                                                            |
| <b>8.</b>  | Observation                                                | Oestrus symptoms, No. of animal shown heat, conception rate, cost benefit ratio                                                                                                                                                                                                                                                                                              |
| <b>9.</b>  | Final recommendation for micro level situation             | <b>On going (2nd Year)</b>                                                                                                                                                                                                                                                                                                                                                   |
| <b>10.</b> | Process of farmers participation and their reaction        | Training, field visit and demonstration                                                                                                                                                                                                                                                                                                                                      |

**OFT-06****Discipline: Veterinary Science**

|           |                     |                                                                                                                                                                                                                                                                                                      |
|-----------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b> | <b>Title of OFT</b> | <b>Assessment of feeding different hydroponic fodder on growth and reproductive performance of goat</b>                                                                                                                                                                                              |
| <b>2.</b> | Problem diagnosed   | Unavailability of green fodder round the year, slow growth rate, Delayed puberty and sexual maturity                                                                                                                                                                                                 |
| <b>3.</b> | Technology option   | <b>Farmers Practice:</b> only extensive grazing/browsing<br><b>T.O.-1-</b> FP+Hydroponic fodder of wheat for 60 days after 3 months of age (50 gm grain hydroponic fodder/day)<br><b>T.O.-2-</b> FP+Hydroponic fodder of maize for 60 days after 3 months of age (50 gm grain hydroponic fodder/day) |

|           |                                                    |                                                                                                 |
|-----------|----------------------------------------------------|-------------------------------------------------------------------------------------------------|
|           |                                                    | <b>T.O.-3-</b> FP+Hydroponic fodder of 50 % maize + 50% wheat for 60 days after 3 months of age |
| <b>4.</b> | Production system/Thematic area                    | Nutrition and Infertility management                                                            |
| <b>5.</b> | Source of Technology                               | TANUVAS, Chennai, Dapoli, Ratangiri                                                             |
| <b>6</b>  | Season:                                            | NA                                                                                              |
| <b>7</b>  | Replication                                        | 8                                                                                               |
| <b>8</b>  | Critical input                                     | Seeds of maize and wheat, Trays                                                                 |
| <b>9</b>  | Observation                                        | Body weight gain, Age of puberty , cost benefit ratio                                           |
| <b>10</b> | Final recommendation for micro level situation     | <b>On going</b>                                                                                 |
| <b>11</b> | Process of farmer participation and their reaction | Training ,KishanGosthi, Individual interaction                                                  |

### OFT-07

**Discipline: Agril. Engg. (Soil and Water Engineering)**

|          |                                                                   |                                                                                                                                                                                                                                       |
|----------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>Title of On Farm Trial</b>                                     | <b>Performance assessment of improved technique on the establishment of Maize crop</b>                                                                                                                                                |
| <b>2</b> | <b>Problem Diagnose</b>                                           | Reducing cost of cultivation and optimizing crop production.                                                                                                                                                                          |
| <b>3</b> | <b>Details of Technologies selected for assessment/refinement</b> | <b>Farmer's Practice :</b> Conventional dibbling method<br><b>TO-I:</b> Sowing with Manually operated multicrop planter<br><b>TO-II :</b> Sowing with Inclined plate multicrop planter                                                |
| <b>4</b> | <b>Source of Technology</b>                                       | PAU, Ludhiana                                                                                                                                                                                                                         |
| <b>5</b> | <b>Replication</b>                                                | 7                                                                                                                                                                                                                                     |
| <b>6</b> | <b>Production System &amp; Thematic Area</b>                      | Farm Mechanization                                                                                                                                                                                                                    |
| <b>7</b> | <b>Performance of Technology with performance indicator</b>       | <ul style="list-style-type: none"> <li>• Theoretical field capacity (ha/h)</li> <li>• Effective field capacity (ha/h)</li> <li>• Field efficiency (%)</li> <li>• Grain yield (q/ha)</li> <li>• Cost of Cultivation (Rs/ha)</li> </ul> |

|    |                                                            |                                                                                                                                                                                                      |
|----|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. | Final recommendation for micro level situation             | Establishment of maize through Inclined plate multicrop planter (TO-II) recorded maximum yield (71.12 q/ha) and BC ratio (3.59). It has also high field capacity among in all technological options. |
| 9. | <b>Constraints identified and feedback for research</b>    | New OFT                                                                                                                                                                                              |
| 9  | <b>Process of farmers participation and their reaction</b> | i. Field visit<br>ii. Face to face conversation.<br>iii. Training and Demonstration                                                                                                                  |

Table:

| Technological options                                 | Effective field capacity (ha/h) | Field efficiency (%) | Grain yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio |
|-------------------------------------------------------|---------------------------------|----------------------|--------------------|------------------------------|----------------------|---------------------|-----------|
| Farmer's Practice :<br>Conventional dibbling method   | 0.04                            | -                    | 65.24              | 43238                        | 120694               | 78456               | 2.79      |
| TO-I: Sowing with Manually operated multicrop planter | 0.22                            | 92.67                | 69.53              | 39580                        | 128630               | 89050               | 3.25      |
| TO-II : Sowing with Inclined plate multicrop planter  | 0.47                            | 81.36                | 71.12              | 36641                        | 131572               | 94931               | 3.59      |

**OFT- 08****Discipline: Agricultural engineering (SWE)**

|    |                                                                                                    |                                                                                                                                                                                                                                                |
|----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Title of On farm Trial</b>                                                                      | <b>Evaluation of the performance of improved tillage practices in Wheat crop. (2<sup>nd</sup> Year)</b>                                                                                                                                        |
| 2. | Problem diagnosed                                                                                  | <ul style="list-style-type: none"> <li>• Reduce Cost of Cultivation</li> <li>• Management of Crop residue</li> </ul>                                                                                                                           |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>FP:</b> Conventional tillage(2 harrowing + 2 ploughing)<br><b>TO<sub>1</sub>:</b> Reduced Tillage(1 harrowing + 1 ploughing)<br><b>TO<sub>2</sub>:</b> Zero tillage (Zero till drill)<br><b>TO<sub>2</sub>:</b> Zero tillage (Happy Seeder) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | SVPUA&T, Meerut                                                                                                                                                                                                                                |
| 5. | Replication                                                                                        | 7                                                                                                                                                                                                                                              |

|     |                                                           |                                                                                                                                                         |
|-----|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Production system and thematic area                       | Farm Mechanization                                                                                                                                      |
| 7.  | Performance of the Technology with performance indicators | <ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Growth of Root zone</li> <li>• Number of irrigation</li> <li>• Yield</li> </ul> |
| 8.  | Final recommendation for micro level situation            | <b>Crop Standing</b>                                                                                                                                    |
| 9.  | Constraints identified and feedback for research          | On going (2 <sup>nd</sup> Year)                                                                                                                         |
| 10. | Process of farmers participation and their reaction       | <ul style="list-style-type: none"> <li>• Field visit</li> <li>• Face to face conversation.</li> </ul>                                                   |

### OFT-09

#### Discipline: Agro meteorology

|     |                                                                                                    |                                                                                                                                                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | <b>Title of On farm Trial</b>                                                                      | <b>Economic Assessment of Weather Based Agromet Advisories for Rice crop, Champaran District</b>                                                                                                                                               |
| 2.  | Problem diagnosed                                                                                  | • Lack of knowledge to use Agromet Advisories                                                                                                                                                                                                  |
| 3.  | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories. |
| 4.  | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | RPCAU, Pusa, Samastipur                                                                                                                                                                                                                        |
| 5.  | Replication                                                                                        | 05                                                                                                                                                                                                                                             |
| 6.  | Production system and thematic area                                                                | Agromet Advisory                                                                                                                                                                                                                               |
| 7.  | Performance of the Technology with performance indicators                                          | • Cost of cultivation, Biomass and Yield                                                                                                                                                                                                       |
| 8.  | Final recommendation for micro level situation                                                     | <b>TO II</b> (Cultivation practices after referring Weather Forecast and Agromet Advisories) was recorded maximum yield and highest BC ratio.                                                                                                  |
| 9.  | Constraints identified and feedback for research                                                   |                                                                                                                                                                                                                                                |
| 10. | Process of farmers participation and their reaction                                                | <ul style="list-style-type: none"> <li>• Field visit</li> <li>• Face to face conversation.</li> </ul>                                                                                                                                          |

**Results:**

| <b>Technological options</b>                                                                                     | <b>Yield<br/>(q/ha)</b> | <b>Biomass<br/>(q/ha)</b> | <b>Cost of cultivation<br/>(Rs./ha)</b> | <b>Gross return<br/>(Rs/ha)</b> | <b>Net return<br/>(Rs./ha)</b> | <b>BC<br/>ratio</b> |
|------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------|-----------------------------------------|---------------------------------|--------------------------------|---------------------|
| <b>Farmers' Practice</b><br>Cultivation practices without referring Agromet Advisories.                          | 33.45                   | 43                        | 45450                                   | 63630                           | 18180                          | 1.40                |
| <b>Technological option I</b><br>Cultivation practices with referring Weather Forecast only.                     | 37.50                   | 52                        | 41400                                   | 70380                           | 28980                          | 1.70                |
| <b>Technological option II</b><br>Cultivation practices after referring Weather Forecast and Agromet Advisories. | 42.20                   | 63                        | 43620                                   | 86200                           | 42580                          | 1.98                |

**OFT- 10****Discipline: Agro meteorology**

|     |                                                                                                    |                                                                                                                                                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | <b>Title of On farm Trial</b>                                                                      | <b>Economic Assessment of Weather Based Agromet Advisories for Wheat crop, Champaran District</b>                                                                                                                                              |
| 2.  | Problem diagnosed                                                                                  | • Lack of knowledge to use Agromet Advisories                                                                                                                                                                                                  |
| 3.  | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | <b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories. |
| 4.  | Source of Technology (ICAR/ AICRP/SAU/other, please specify)                                       | RPCAU, Pusa, Samastipur                                                                                                                                                                                                                        |
| 5.  | Replication                                                                                        | 05                                                                                                                                                                                                                                             |
| 6.  | Production system and thematic area                                                                | Agromet Advisory                                                                                                                                                                                                                               |
| 7.  | Performance of the Technology with performance indicators                                          | <ul style="list-style-type: none"> <li>• Cost of cultivation</li> <li>• Biomass</li> <li>• Yield</li> </ul>                                                                                                                                    |
| 8.  | Final recommendation for micro level situation                                                     | New OFT                                                                                                                                                                                                                                        |
| 9.  | Constraints identified and feedback for research                                                   | <b>Crop Standing</b>                                                                                                                                                                                                                           |
| 10. | Process of farmers participation and their reaction                                                | Field visit and Face to face conversation.                                                                                                                                                                                                     |

## 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 |
|-------------|--------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|
| <b>2020</b> |                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                               |               |                  |
| 1.          | Agronomy                       | Establishment method and BMP | <b>Effects of Lentil and Moongbean Establishment method with Best management practice of both crops.</b><br><b>Farmer practice:</b> Established by conventional method<br><b>TO-I:</b> Establishment by Happy seeder in Lentil.<br><b>TO-II:</b> Establishment by Zero Tillage in Lentil and Moongbean<br><b>TO-III:</b> Establishment by seed drill in Lentil and Moongbean.                                 | 07            |                  |
| 2.          | Home Science                   | Women & Child Care           | <b>Effect of complimentary food on the nutritional status of 6-12 months old children.</b><br><b>Farmers Practice:</b><br>Exclusively breast feeding up to 12 months onward.<br><b>Technological option I</b><br>Breast feeding with ordinary home diet.<br><b>Technological option II</b><br>Breast feeding with ordinary home diet + weaning mix.                                                           | 30            |                  |
|             |                                | Value addition               | <b>Domestic Scale Preservation of vegetables.</b><br><b>FP:</b> Sun drying of seasonal vegetables like cauliflower with put any treatment<br><b>TO-I:</b> Seasonal cauliflower, carrot, peas etc. (mixed pickle) without drying and any chemical preservatives<br><b>TO-II:</b> Mixed pickle after drying in sunlight without preservatives<br><b>TO-III:</b> Mixed pickle after blanching with preservatives | 07            |                  |
| 3.          | Horticulture                   | Floriculture                 | <b>Effect of stagger planting of Gladiolus for better bloom.</b><br><b>FP:</b> 30 cm x 30 cm<br><b>TO1:</b> 30 cm x 20 cm<br><b>TO2:</b> 20 cm x 20 cm<br><b>TO3:</b> 20 cm x 15 cm                                                                                                                                                                                                                           | 05            |                  |
|             |                                | Orchard management           | <b>Induction of regular and early flowering in Mango through Paclobutrazol.</b><br><b>Farmer's practice :</b> Without use of cultar<br><b>TO-I :</b> Use of cultar @ 20 ml/tree<br><b>TO -II :</b> Use of cultar @ 30 ml/tree(Recommended practice)                                                                                                                                                           | 05            |                  |
| 4.          | Agricultural Engineering (SWE) | Farm Mechanization           | <b>Performance Assessment of Different Manually Operated Weeders in Pigeon Pea Field.</b><br><b>Farmer's Practice :</b> Conventional Technique (Khurpi)<br><b>TO-I:</b> RAU Manual Weeder<br><b>TO-II :</b> KVK Madhopur Cycle Hoe                                                                                                                                                                            | 07            |                  |
|             |                                | Farm Mechanization           | <b>Evaluation of the performance of improved tillage practices in Wheat crop.</b><br><b>FP:</b> Conventional tillage(2 harrowing + 2 ploughing)                                                                                                                                                                                                                                                               | 07            |                  |

|             |                  |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |  |
|-------------|------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
|             |                  |                              | <b>TO<sub>1</sub>:</b> Reduced Tillage(1 harrowing + 1 ploughing)<br><b>TO<sub>2</sub>:</b> Zero tillage (Zero till drill)<br><b>TO<sub>2</sub>:</b> Zero tillage (Happy Seeder)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |  |
| 5.          | Agro-meteorology | Agromet Advisory             | <b>Economic Assessment of Weather Based Agromet Advisories for Wheat crop, Champaran District.</b><br><b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 05 |  |
| <b>2021</b> |                  |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |  |
| 1.          | Home Science     | Value addition               | <b>Assessment of preparation methods of Carrot Paste for more shelf life, enhancement of nutrition &amp; income.</b><br><b>F.P:</b> Sell fruits to processors at very low or throw away price<br><b>TO I::</b> Process for preparation of litchi squash<br><b>Formulation (Product specifications)</b><br>Litchi pulp: 25%, TSS: 40°B, Acidity :0.8%, 350 ppm SO <sub>2</sub><br><b>TO II::</b> Process for preparation of litchi squash<br><b>Formulation (Product specifications)</b><br>Litchi pulp: 25%, TSS: 45°B, Acidity :1.2%, 350 ppm SO <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 30 |  |
|             |                  | Value Addition               | <b>Assessment of preparation method of litchi squash.</b><br><b>F.P.:</b> Local people consume fresh carrot as such as vegetables or juice.<br><b>T.O.1:</b> Preparation of Carrot Paste<br><b>Formulation - Ingredients</b><br>Carrot- 1.0kg, Sugar-250g, Salt-50g, Glacial Ascorbic acid -5.0ml, Sodium Benzoate- 1.5g<br><b>T.O. 2:</b> Preparation of Carrot Paste with spices.<br><b>Formulation - Ingredients</b><br>Carrot- 1.0kg, Sugar-250g, Salt-50g, Glacial Ascorbic acid -2.0ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon & cardamom powder-5.0g, Sodium Benzoate- 1.5g<br><b>T.O. 3:</b> Preparation of Carrot paste blended with tomatoes<br><b>Formulation - Ingredients</b><br>Carrot- 500g, Tomatoes- 500g, Sugar-250g, Salt-50g, Glacial Ascorbic acid -2.0ml, Red chili powder-3.0g, dried Ginger powder-5.0g, dried black pepper powder-2.0g, Cinnamon & cardamom powder-5.0g, Sodium Benzoate- 1.5g | 07 |  |
| 2.          | Horticulture     | Planting Material Production | <b>Effect of recommended dose of fertilizer along with Boron application in cauliflower.</b><br><b>Farmer practice :</b> RDF of NPK without boron application<br><b>T.O.-1-</b> RDF of NPK along with 5 kg /ha boron application<br><b>T.O.-2-</b> RDF of NPK along with 10 kg/ha boron application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 05 |  |
|             |                  | Orchard based                | <b>Assessment of micronutrient spray for management of fruit cracking problems in litchi in</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05 |  |



|    |                                           |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |  |
|----|-------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
|    |                                           | cultivation of fruit                                                                                 | <b>East Champaran.</b><br><b>FP:</b> No application of Borax<br><b>TO I:</b> Spraying of borax 0.2 % during December- January<br><b>TO II:</b> Spraying of borax (0.2 % spray after 15 days of fruit set)                                                                                                                                                                                                                                                                                                        |    |  |
| 3. | Veterinary Science                        | Calf production, Milk production and Anoestrus management                                            | <b>Validation of Ovysynch and Heatsynch protocols in postpartum anoestrus cows.</b><br><b>Farmers Practice :</b> Dewormer (Fenbendazole 3g) +Phosphorous 80 mg i/m+multi mineral@1 bolus orally for 7 days<br><b>T.O.-1-</b> D0- GnRH (Buserlin) 10 ug, D7; PGF2 alpha 500 ug; D9; GnRH (Buserlin) 10 ug and D10; Fixed time AI (Ovy Synch)<br><b>T.O.-2-</b> D0- GnRH (Buserlin) 10 ug, D7; PGF2 alpha 500 ug; D8; Oestradiol 1 mg; D10; Fixed Time AI (Heatsynch)                                              | 10 |  |
|    |                                           | Unavailability of green fodder round the year, slow growth rate, Delayed puberty and sexual maturity | <b>Assessment of feeding different hydroponic fodder on growth and reproductive performance of goat.</b><br><b>Farmers Practice:</b> only extensive grazing/browsing<br><b>T.O.-1-FP+Hydroponic</b> fodder of wheat for 60 days after 3 months of age (50 gm grain hydroponic fodder/day)<br><b>T.O.-2-FP+Hydroponic</b> fodder of maize for 60 days after 3 months of age (50 gm grain hydroponic fodder/day)<br><b>T.O.-3-FP+Hydroponic</b> fodder of 50 % maize + 50% wheat for 60 days after 3 months of age | 08 |  |
| 4. | Agril. Engg. (Soil and Water Engineering) | Farm Mechanization                                                                                   | <b>Performance assessment of improved technique on establishment of Maize crop.</b><br><b>Farmer's Practice :</b> Conventional dibbling method<br><b>TO-I:</b> Sowing with Manually operated multicrop planter<br><b>TO-II :</b> Sowing with Inclined plate multicrop planter                                                                                                                                                                                                                                    | 07 |  |
|    |                                           | Farm Mechanization                                                                                   | <b>Evaluation of the performance of improved tillage practices in Wheat crop.</b><br><b>FP:</b> Conventional tillage(2 harrowing + 2 ploughing)<br><b>TO<sub>1</sub>:</b> Reduced Tillage(1 harrowing + 1 ploughing)<br><b>TO<sub>2</sub>:</b> Zero tillage (Zero till drill)<br><b>TO<sub>2</sub>:</b> Zero tillage (Happy Seeder)                                                                                                                                                                              | 07 |  |
| 5. | Agro-meteorology                          | Agromet Advisory                                                                                     | <b>Economic Assessment of Weather Based Agromet Advisories for Rice crop, Champaran District.</b><br><b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories.                                                                                                                                                              | 05 |  |
|    |                                           | Agromet Advisory                                                                                     | <b>Economic Assessment of Weather Based Agromet Advisories for Wheat crop, Champaran District</b><br><b>Farmer's practice:</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-I :</b> Cultivation practices without referring Agromet Advisories.<br><b>TO-II :</b> Cultivation practices after referring Agromet Advisories.                                                                                                                                                              | 05 |  |

### 3.2 Achievements of Frontline Demonstrations

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

##### Cereals

| Sl. No. | Crop  | Thematic area                       | Technology Demonstrated with detailed treatments | Area (ha) |        | No. of farmers/ demonstration |    |    |    |        |    |       |    |    | Reasons for shortfall in achievement |
|---------|-------|-------------------------------------|--------------------------------------------------|-----------|--------|-------------------------------|----|----|----|--------|----|-------|----|----|--------------------------------------|
|         |       |                                     |                                                  | Proposed  | Actual | SC                            |    | ST |    | Others |    | Total |    |    |                                      |
|         |       |                                     |                                                  |           |        | M                             | F  | M  | F  | M      | F  | M     | F  | T  |                                      |
| 2020    |       |                                     |                                                  |           |        |                               |    |    |    |        |    |       |    |    |                                      |
| 1.      | Wheat | Varietal Evaluation + Mechanization | DBW - 187 + ZT                                   | 15        | 4      | 01                            | 00 | 00 | 00 | 06     | 00 | 07    | 00 | 07 |                                      |
| 2021    |       |                                     |                                                  |           |        |                               |    |    |    |        |    |       |    |    |                                      |
| 1.      | Paddy | Varietal Evaluation + Mechanization | Rajshree + DSR                                   | 10        | 3      | 02                            | 00 | 00 | 00 | 06     | 00 | 08    | 00 | 8  |                                      |
| 2       |       | Varietal Evaluation                 | DRR50 + DSR                                      | 5         | 4      | 04                            | 00 | 00 | 00 | 15     | 00 | 15    | 00 | 19 |                                      |
| 3       |       | Varietal Evaluation                 | DRR44 + DSR                                      | 5         | 4      | 04                            | 00 | 00 | 00 | 15     | 00 | 15    | 00 | 19 |                                      |
| 4       | Wheat | Varietal Evaluation + Mechanization | DBW-222 + ZT                                     | 10        | 4      | 02                            | 00 | 00 | 00 | 09     | 00 | 11    | 00 | 11 |                                      |
| 5       |       | Varietal Evaluation + Mechanization | HD-2967 + ZT                                     | 5         | 2      | 03                            | 00 | 00 | 00 | 07     | 00 | 10    | 00 | 10 |                                      |

##### Details of farming situation

| Sl. No. | 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 <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |               |             |              |                        |                   |
| 2020    |       |        |                                  |            |                        |                               |                  |               |             |              |                        |                   |
| 1       | Wheat | Rabi   | Irrigated                        | Sandy Loam |                        |                               |                  | Paddy         | 20.11.2020  |              |                        |                   |
| 2021    |       |        |                                  |            |                        |                               |                  |               |             |              |                        |                   |
| 1       | Paddy | Kharif | Both                             | Sandy Loam |                        |                               |                  |               | 10.07.2021  |              |                        |                   |
| 2       |       | Kharif | Both                             | Sandy Loam |                        |                               |                  |               | 20.07.2021  |              |                        |                   |
| 3       |       | Kharif | Both                             | Sandy Loam |                        |                               |                  |               | 20.07.2021  |              |                        |                   |
| 4       | Wheat | Rabi   | Rabi                             | Sandy Loam |                        |                               |                  | Paddy         | 25.11.2021  |              |                        |                   |
| 5       |       | Rabi   | Rabi                             | Sandy Loam |                        |                               |                  | Paddy         | 25.11.2021  |              |                        |                   |

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.



**Livestock**

| Category            | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters |       | % change in major parameter | Other parameter |       | *Economics of demonstration (Rs.) |              |            |        | *Economics of check (Rs.) |              |            |        |
|---------------------|---------------|-------------------------------------|---------------|--------------|------------------|-------|-----------------------------|-----------------|-------|-----------------------------------|--------------|------------|--------|---------------------------|--------------|------------|--------|
|                     |               |                                     |               |              | Demonstration    | Check |                             | Demonstration   | Check | Gross Cost                        | Gross Return | Net Return | ** BCR | Gross Cost                | Gross Return | Net Return | ** BCR |
| Dairy               |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Cow                 |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Buffalo (2021)      |               | Gunia grass                         | 30            |              | On going         |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Poultry (2021)      |               | Vanraja Chicks                      | 20            |              | On going         |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Rabbitry            |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Pigerry             |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Sheep and goat      |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Duckery             |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Others (Pl.specify) |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Total               |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

**Fisheries**

| Category            | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters |       | % change in major parameter | Other parameter |       | *Economics of demonstration (Rs.) |              |            |        | *Economics of check (Rs.) |              |            |        |
|---------------------|---------------|-------------------------------------|---------------|--------------|------------------|-------|-----------------------------|-----------------|-------|-----------------------------------|--------------|------------|--------|---------------------------|--------------|------------|--------|
|                     |               |                                     |               |              | 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       |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Vermicompost          |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Sericulture           |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Apiculture            |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Milky Mushroom (2021) |                                     | 20            | 25 kg spawn  | 215 kg           |       |                             |                 |       | 6450.00                                       | 32550.00     | 22800.00   | 5.00   |                                       |              |            |        |
| Total                 |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

**Women empowerment**

| Category        | Name of technology | No. of demonstrations | Observations  |       | Remarks |
|-----------------|--------------------|-----------------------|---------------|-------|---------|
|                 |                    |                       | Demonstration | Check |         |
| Farm Women      |                    |                       |               |       |         |
| 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) | Field observation (output/man hour) |       | % change in major parameter | Zero till-cum-Ferti seed drill |                                   |                          |                             |                   | Conventional System               |                                 |                         |                             |              |
|--------------------------------|-------|-------------------------------------|---------------|-----------|-------------------------------------|-------|-----------------------------|--------------------------------|-----------------------------------|--------------------------|-----------------------------|-------------------|-----------------------------------|---------------------------------|-------------------------|-----------------------------|--------------|
|                                |       |                                     |               |           | Demonstration                       | Check |                             | Labor reduction (man days/ha)  | Effective Field Capacity (ha/h)   | Field Efficiency (%)     | Cost of Cultivation (Rs/ha) | Yield (q/ha)      | Labor reduction (man days/ha)     | Effective Field Capacity (ha/h) | Field Efficiency (%)    | Cost of Cultivation (Rs/ha) | Yield (q/ha) |
| 2020                           |       |                                     |               |           |                                     |       |                             |                                |                                   |                          |                             |                   |                                   |                                 |                         |                             |              |
| Zero till-cum-Ferti seed drill | Wheat | Zero tillage                        | 12            | 4         | -                                   | -     | -                           | 48                             | 0.48                              | 81.39                    | 32596                       | 43.88             | 60                                | 0.026                           | -                       | 37940                       | 39.25        |
|                                |       |                                     |               |           |                                     |       |                             | Octagonal hand Maize Sheller   |                                   |                          |                             |                   | Conventional hand shelling        |                                 |                         |                             |              |
|                                |       |                                     |               |           |                                     |       |                             | Labor Requirement              | Time Spent to Shell 100 cob (Min) | Shelling Capacity (kg/h) | Shelling Efficiency (%)     | Labor Requirement | Time Spent to Shell 100 cob (Min) | Shelling Capacity (kg/h)        | Shelling Efficiency (%) |                             |              |
| Octagonal hand Maize Sheller   | Maize | Maize Shelling                      | 50            | -         |                                     |       |                             | 01                             | 43                                | 21.58                    | 93.66                       |                   | 01                                | 115                             | 8.23                    |                             |              |
| 2021                           |       |                                     |               |           |                                     |       |                             |                                |                                   |                          |                             |                   |                                   |                                 |                         |                             |              |
| Zero till-cum-Ferti seed drill | Wheat | Zero tillage                        | 15            | 2.4       | Crop standing                       |       |                             |                                |                                   |                          |                             |                   |                                   |                                 |                         |                             |              |
| Hand Maize Sheller             | Maize | Maize Shelling                      | To be started |           |                                     |       |                             |                                |                                   |                          |                             |                   |                                   |                                 |                         |                             |              |

\* 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 | GrossCost          | GrossReturn | NetReturn | BCR  |
| <b>Cereals</b>         |                      |                |           |                                 |             |          |                    |             |           |      |
| Bajra                  |                      |                |           |                                 |             |          |                    |             |           |      |
| Maize                  |                      |                |           |                                 |             |          |                    |             |           |      |
| Paddy                  |                      |                |           |                                 |             |          |                    |             |           |      |
| Sorghum                |                      |                |           |                                 |             |          |                    |             |           |      |
| Wheat                  |                      |                |           |                                 |             |          |                    |             |           |      |
| Others (Pl.specify)    |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Total Cereals</b>   |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Oilseeds</b>        |                      |                |           |                                 |             |          |                    |             |           |      |
| Castor                 |                      |                |           |                                 |             |          |                    |             |           |      |
| Mustard                |                      |                |           |                                 |             |          |                    |             |           |      |
| Safflower              |                      |                |           |                                 |             |          |                    |             |           |      |
| Sesame                 |                      |                |           |                                 |             |          |                    |             |           |      |
| Sunflower              |                      |                |           |                                 |             |          |                    |             |           |      |
| Groundnut              |                      |                |           |                                 |             |          |                    |             |           |      |
| Soybean                |                      |                |           |                                 |             |          |                    |             |           |      |
| Others (Pl.specify)    |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Total Oilseeds</b>  |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Pulses</b>          |                      |                |           |                                 |             |          |                    |             |           |      |
| Greengram              |                      |                |           |                                 |             |          |                    |             |           |      |
| Blackgram              |                      |                |           |                                 |             |          |                    |             |           |      |
| Bengalgram             |                      |                |           |                                 |             |          |                    |             |           |      |
| Redgram                |                      |                |           |                                 |             |          |                    |             |           |      |
| Others (Pl.specify)    |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Total Pulses</b>    |                      |                |           |                                 |             |          |                    |             |           |      |
| <b>Vegetable crops</b> |                      |                |           |                                 |             |          |                    |             |           |      |
| Bottle gourd           |                      |                |           |                                 |             |          |                    |             |           |      |
| Capsicum               |                      |                |           |                                 |             |          |                    |             |           |      |
| Cucumber               |                      |                |           |                                 |             |          |                    |             |           |      |
| Tomato                 |                      |                |           |                                 |             |          |                    |             |           |      |
| Brinjal                |                      |                |           |                                 |             |          |                    |             |           |      |
| Okra                   |                      |                |           |                                 |             |          |                    |             |           |      |
| Onion(2020)            | Nasele Red + Sulphur | 10             | 1.5       | 195.61                          | 146.25      | 34       | 16500              | 293500      | 128500    | 1.78 |
| Potato(2020)           | K. Shinduri + INM    | 10             | 01        | 189.22                          | 165.52      | 15       | 153000             | 275000      | 122000    | 1.80 |

|                               |        |    |    |        |        |    |        |        |        |      |
|-------------------------------|--------|----|----|--------|--------|----|--------|--------|--------|------|
| Field bean                    |        |    |    |        |        |    |        |        |        |      |
| Broccoli                      |        | 11 |    |        |        |    |        |        |        |      |
| <b>Total Veg. Crops</b>       |        |    |    |        |        |    |        |        |        |      |
| <b>Commercial Crops</b>       |        |    |    |        |        |    |        |        |        |      |
| Cotton                        |        |    |    |        |        |    |        |        |        |      |
| Coconut                       |        |    |    |        |        |    |        |        |        |      |
| Others (Pl. specify)          |        |    |    |        |        |    |        |        |        |      |
| <b>Total Commercial Crops</b> |        |    |    |        |        |    |        |        |        |      |
| <b>Fodder crops</b>           |        |    |    |        |        |    |        |        |        |      |
| Napier (Fodder)               |        |    |    |        |        |    |        |        |        |      |
| Maize (Fodder)                |        |    |    |        |        |    |        |        |        |      |
| Sorghum (Fodder)              |        |    |    |        |        |    |        |        |        |      |
| Others (Pl. specify)          |        |    |    |        |        |    |        |        |        |      |
| <b>Total Fodder Crops</b>     |        |    |    |        |        |    |        |        |        |      |
| <b>Marigold(2020)</b>         | French | 10 | 01 | 188.73 | 155.89 | 39 | 255000 | 470000 | 215000 | 1.84 |

#### Technical Feedback on the demonstrated technologies

| Sl. No      | Crop                           | Feed Back                                                                                                                                                                                                                        |
|-------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2020</b> |                                |                                                                                                                                                                                                                                  |
| 1           | Wheat                          | Farmers are very satisfied with the sowing of wheat with ZT technique and keen interested to grow this var. <i>DBW-187</i> .                                                                                                     |
| 2           | Octagonal Hand Maize Sheller   | Farmers are very happy with this equipment because shelling efficiency along with shelling capacity is high comparatively normal hand shelling of maize.                                                                         |
| 3           | Zero till-cum-ferti seed drill | This implement helps to reduce cost of cultivation of farmers so they are very much interested to adopt Zero till-cum-ferti seed drill implement for the sowing of wheat in zero tillage condition.                              |
| <b>2021</b> |                                |                                                                                                                                                                                                                                  |
| 1           | Paddy                          | Farmers are very interested to adopt paddy var. <i>DRR44 and DRR50</i> with DSR technique.                                                                                                                                       |
| 2           | Milky Mushroom                 | The farmers/farm women were happy with the success of mushroom cultivation. Now they are interested to take up mushroom cultivation as a major income generating activity throughout the year due to its demand in the district. |



| Sl.No. | Activity                             | Date                                           | No. of activities organized | Number of participants | Remarks |
|--------|--------------------------------------|------------------------------------------------|-----------------------------|------------------------|---------|
| 1.     | Field days                           | 20.05.2021, 28.10.2021                         | 02                          | 46                     |         |
| 2.     | Field visit                          | 01.07.2021, 12.08.2021, 28.10.2021, 08.12.2021 | 04                          | 68                     |         |
| 3.     | Farmers Training                     | 05.06.2021, 11.08.2021, 05.12.2021             | 03                          | 72                     |         |
| 4.     | Media coverage                       | 10.08.2021, 19.12.2021                         |                             | Mass                   |         |
| 5.     | Training for extension functionaries | 17.06.2021, 21.10.2021                         | 01                          | 82                     |         |

### A. Technical Parameters:

[illegible]

|    |                   |       |               |  |  |  |                                                                         |    |    |  |  |  |  |  |  |
|----|-------------------|-------|---------------|--|--|--|-------------------------------------------------------------------------|----|----|--|--|--|--|--|--|
| 1. | Pigeon pea        | Local | Crop Standing |  |  |  | IPA-203 + INM + IPM + R. Culture + PSB + Micro nutrient                 | 18 | 10 |  |  |  |  |  |  |
| 2. | Lentil            | Local | Crop Standing |  |  |  | HUL-57 + ZT/Line Sowing + INM + IPM + R. Culture + PSB + Micro nutrient | 28 | 10 |  |  |  |  |  |  |
| 3. | Rapeseed/ Mustard | Local | Crop Standing |  |  |  | R. Suflam + ZT/Line Sowing + INM + IPM + R. Culture + Micro nutrient    | 97 | 50 |  |  |  |  |  |  |

### 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 |
|         | <b>2020</b>                                                                                          |                        |                      |                    |           |                    |                      |                    |           |
|         | Rajendra Arhar -1 + INM + IPM + R. Culture + Micro nutrient                                          | 28465                  | 71340                | 42875              | 2.51      | 25855              | 84660                | 58805              | 3.27      |
|         | HUL-57 + ZT/Line Sowing + INM + IPM + R. Culture + Micro nutrient                                    | 25929                  | 44880                | 18951              | 1.73      | 21532              | 55776                | 34244              | 2.59      |
|         | R. Suflam + ZT/Line Sowing + INM + IPM + R. Culture + Micro nutrient                                 | 17291.4                | 39216                | 21924.6            | 2.27      | 15700              | 51084                | 35384              | 3.25      |
|         | Improved Variety, IPM and INM Practices, Seed treatment, R-Culture, Micro Nutrient, Soil Testing, ZT | 19715                  | 46270                | 26555              | 2.35      | 17350              | 55510                | 38160              | 3.20      |
|         | <b>2021</b>                                                                                          |                        |                      |                    |           |                    |                      |                    |           |
|         | IPA-203 + INM + IPM + R. Culture + PSB + Micro nutrient                                              | Crop Standing          |                      |                    |           |                    |                      |                    |           |
|         | HUL-57 + ZT/Line Sowing + INM + IPM + R. Culture + PSB + Micro nutrient                              | Crop Standing          |                      |                    |           |                    |                      |                    |           |
|         | R. Suflam + ZT/Line Sowing + INM + IPM + R. Culture + Micro nutrient                                 | Crop Standing          |                      |                    |           |                    |                      |                    |           |

### 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) |
|-------------|--------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|
| <b>2020</b> |                                      |                             |                             |                      |                                  |                                           |                                              |                                           |
| 1           | <b>Pigeon Pea</b> (Rajendra Arhar-1) | 14110                       | 6260                        |                      |                                  |                                           | to fulfill the basic needs of the family     | 1                                         |
| 2           | <b>Lentil</b> (HUL-57)               | 11620                       | 5670                        |                      |                                  |                                           | to fulfill the basic needs of the family     | 1                                         |
| 3           | <b>Rapeseed/Mustard</b> (R. Suflam)  | 192720                      | 89925                       |                      |                                  |                                           | to fulfill the basic needs of the family     | 1                                         |
| 4           | <b>Green Gram</b> (IPU-02-03)        | 79300                       | 4210                        |                      |                                  |                                           | to fulfill the basic needs of the family     | 1                                         |
| <b>2021</b> |                                      |                             |                             |                      |                                  |                                           |                                              |                                           |
| 1           | <b>Pigeon Pea</b> (IPA-203)          | Crop Standing               |                             |                      |                                  |                                           |                                              |                                           |
| 2           | <b>Lentil</b> (HUL-57)               | Crop Standing               |                             |                      |                                  |                                           |                                              |                                           |
| 3           | <b>Rapeseed/Mustard</b> (R. Suflam)  | Crop Standing               |                             |                      |                                  |                                           |                                              |                                           |

### D. Oilseed Farmers' perception of the intervention demonstrated

| Sl. No. | Technologies demonstrated (with name)                                                               | Farmers' Perception parameters      |                      |               |                     |                                                      |                                             |
|---------|-----------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|---------------|---------------------|------------------------------------------------------|---------------------------------------------|
|         |                                                                                                     | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 2020    |                                                                                                     |                                     |                      |               |                     |                                                      |                                             |
| 1       | Improved Variety R. Suflam with INM, IPM, ZT/Line Sowing, Micro nutrient practices and soil testing | Best suited for the district        | Very Good            | Easy          | No                  | Yes                                                  |                                             |
| 2021    |                                                                                                     |                                     |                      |               |                     |                                                      |                                             |
| 1       | Improved Variety R. Suflam with INM, IPM, ZT/Line Sowing, Micro nutrient practices and soil testing | Best suited for the district        | Very Good            | Easy          | No                  | Yes                                                  |                                             |

### E. Specific Characteristics of Technology and Performance

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check                            | Farmers Feedback                                                                                                                                                                                                                     |
|-------------------------|-------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yield                   | Good        | Yield of the demonstrated technology is more than the local check variety. | Quality seeds of recommended varieties of different crops are not readily available in the local market. Measures to be taken for seed multiplication of the recommended varieties to make the same easily available to the farmers. |

### F. Extension activities under FLD conducted:

| Sl. No. | Extension Activities organized       | Date of activity                                                       | Place of activity                                                                                           | Number of farmer attended |
|---------|--------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------|
| 1       | Field days                           | 17.03.2021, 20.03.2021                                                 | Balwa, Barharwa Kothi                                                                                       | 41                        |
| 2       | Field visit                          | 29.01.2021, 30.01.2021, 16.03.2021, 08.12.2021, 21.12.2021, 18.01.2021 | Sagar Churaman, Ahrauliya, Jamunia, Majurahan, Baswanpur, Balwa, Barharwakothi, Jhakra, Chorma, Mani Chapra | 114                       |
| 3       | Farmers Training                     | 30.01.2021, 13.10.2021, 26.10.2021                                     | Siswan, KVK campus                                                                                          | 54                        |
| 4       | Training for extension functionaries | 26.09.2021                                                             | KVK campus                                                                                                  | 42                        |

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



**Fig: Green Gram crop during growthstage**



**Fig: Pigeon pea crop during flowering stage**



**Fig: Rai crop during growth stage**



**Fig: Rai crop during pod formation stage**

## H. Farmers' training photographs



**Fig: Training and critical input distribution among farmers**

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



**Fig: Field Visit of pigeon pea crop during development stage**



**Fig: Field Visit of pigeon pea crop during growth stage**





**Fig: Sowing of Rai with zero tillage technique using Zero till cum ferti drill**



**Fig: Field Visit of Rai crop during growth stage**

### J. Details of budget utilization

#### CFLD

| Crop<br>(provide crop wise information ) | Items                                 | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|------------------------------------------|---------------------------------------|-----------------------------|--------------------------------|------------------|
| <b>Green Gram</b><br>(Summer 2021)       | i) Critical input                     | 162000.00                   | 162000.00                      | 00.00            |
|                                          | ii) TA/DA/POL etc. for monitoring     | 18000.00                    | 18000.00                       | 00.00            |
|                                          | iii) Extension Activities (Field day) |                             |                                |                  |
|                                          | iv) Publication of literature         |                             |                                |                  |
|                                          | <b>Total</b>                          | <b>180000.00</b>            | <b>180000.00</b>               | <b>00.00</b>     |

| Crop<br>(provide crop wise information ) | Items                                 | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.)  |
|------------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------|
| <b>Pigeon Pea</b><br>(Kharif 2021)       | i) Critical input                     | 00.00                       | 81152.00                       |                   |
|                                          | ii) TA/DA/POL etc. for monitoring     | 00.00                       | 7500.00                        |                   |
|                                          | iii) Extension Activities (Field day) |                             |                                |                   |
|                                          | iv) Publication of literature         |                             |                                |                   |
|                                          | <b>Total</b>                          | <b>00.00</b>                | <b>88652.00.00</b>             | <b>- 88652.00</b> |

| Crop<br>(provide crop wise information ) | Items                                 | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.)  |
|------------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------------------|
| <b>Lentil</b><br>(Rabi 2021)             | i) Critical input                     | 00.00                       | 77390.00.00                    | 00.00             |
|                                          | ii) TA/DA/POL etc. for monitoring     | 00.00                       | 7600.00                        | 00.00             |
|                                          | iii) Extension Activities (Field day) |                             |                                |                   |
|                                          | iv)Publication of literature          |                             |                                |                   |
|                                          | <b>Total</b>                          | <b>00.00</b>                | <b>84990.00</b>                | <b>- 84990.00</b> |

| Crop<br>(provide crop wise information )  | Items                                 | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|-------------------------------------------|---------------------------------------|-----------------------------|--------------------------------|------------------|
| <b>Rape Seed / Mustard</b><br>(Rabi 2021) | i) Critical input                     | 120000.00                   | 257000.00                      | 00.00            |
|                                           | ii) TA/DA/POL etc. for monitoring     | 00.00                       | 10000.00                       | 00.00            |
|                                           | iii) Extension Activities (Field day) |                             |                                |                  |
|                                           | iv)Publication of literature          |                             |                                |                  |
|                                           | <b>Total</b>                          | <b>120000.00</b>            | <b>268000.00</b>               | <b>-</b>         |

### 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                                       | 05             | 107                 | 07 | 114 | 21 | 01 | 22 | 0  | 0  | 0  | 128         | 08 | 136 |
| Resource Conservation Technologies                    | 02             | 39                  | 00 | 39  | 12 | 00 | 12 | 0  | 0  | 0  | 51          | 0  | 51  |
| Cropping Systems                                      | 01             | 26                  | 00 | 26  | 04 | 0  | 04 | 0  | 0  | 0  | 30          | 0  | 30  |
| Crop Diversification                                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Integrated Farming                                    | 01             | 25                  | 0  | 25  | 04 | 0  | 04 | 00 | 0  | 0  | 29          | 00 | 29  |
| Water management                                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Seed production                                       | 01             | 24                  | 0  | 24  | 0  | 0  | 0  | 0  | 0  | 0  | 24          | 0  | 24  |
| Nursery management                                    | 01             | 21                  | 00 | 21  | 07 | 00 | 07 | 0  | 0  | 0  | 28          | 0  | 28  |
| Integrated Crop Management                            | 01             | 23                  | 0  | 23  | 07 | 00 | 07 | 0  | 0  | 0  | 30          | 0  | 30  |
| Fodder production                                     | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Production of organic inputs                          | 02             | 41                  | 0  | 41  | 9  | 0  | 9  | 0  | 0  | 0  | 50          | 0  | 50  |
| Others, (cultivation of crops )                       | 08             | 187                 | 04 | 191 | 29 | 07 | 36 | 00 | 00 | 00 | 219         | 11 | 230 |
| II. Horticulture                                      |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| a) Vegetable Crops                                    |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Integrated nutrient management                        | 01             | 19                  | 00 | 19  | 07 | 00 | 07 | 00 | 00 | 00 | 26          | 00 | 26  |
| Water management                                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Enterprise development                                | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Skill development                                     | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Yield increment                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Production of low volume and high value crops         | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Off-season vegetables                                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Nursery raising                                       | 02             | 40                  | 02 | 42  | 11 | 0  | 11 | 0  | 0  | 0  | 51          | 02 | 53  |
| Export potential vegetables                           | 01             | 17                  | 01 | 18  | 06 | 02 | 08 | 00 | 00 | 00 | 23          | 03 | 26  |
| Grading and standardization                           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Protective cultivation (Green Houses, Shade Net etc.) | 03             | 58                  | 08 | 66  | 14 | 01 | 15 | 0  | 0  | 0  | 72          | 09 | 81  |
| Others, if any (Cultivation of Vegetable)             | 03             | 71                  | 03 | 74  | 14 | 00 | 14 | 00 | 00 | 00 | 85          | 03 | 88  |
| Training and Pruning                                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| b) Fruits                                             |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Layout and Management of Orchards                     | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Cultivation of Fruit                                  | 01             | 18                  | 00 | 18  | 04 | 00 | 04 | 00 | 00 | 00 | 22          | 00 | 22  |
| Management of young plants/orchards                   | 03             | 48                  | 2  | 50  | 08 | 0  | 08 | 0  | 0  | 0  | 56          | 02 | 58  |
| Rejuvenation of old orchards                          | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Export potential fruits                               | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Micro irrigation systems of orchards                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Plant propagation techniques                          | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any(INM)                                   | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| c) Ornamental Plants                                  |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Nursery Management                                    | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Management of potted plants                           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Export potential of ornamental plants                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Propagation techniques of Ornamental Plants           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                        | 01             | 22                  | 02 | 24  | 0  | 0  | 0  | 0  | 0  | 0  | 22          | 02 | 24  |
| d) Plantation crops                                   |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Production and Management technology                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |



| 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                                        | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| <b>e) Tuber crops</b>                                                |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Production and Management technology                                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Processing and value addition                                        | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| <b>f) Spices</b>                                                     |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Production and Management technology                                 | 03             | 67                  | 0  | 67  | 18 | 0  | 18 | 0  | 0  | 0  | 85          | 0  | 85  |
| Processing and value addition                                        | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| <b>g) Medicinal and Aromatic Plants</b>                              |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Nursery management                                                   | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Production and management technology                                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Post-harvest technology and value addition                           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| <b>III. Soil Health and Fertility Management</b>                     |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Soil fertility management                                            | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Soil and Water Conservation                                          | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Integrated Nutrient Management                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Production and use of organic inputs                                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Management of Problematic soils                                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Micro nutrient deficiency in crops                                   | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Nutrient Use Efficiency                                              | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Soil and Water Testing                                               | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any                                                       | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| <b>IV. Livestock Production and Management</b>                       |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Dairy Management                                                     | 04             | 81                  | 02 | 83  | 23 | 05 | 28 | 00 | 00 | 00 | 104         | 07 | 111 |
| Poultry Management                                                   | 03             | 72                  | 00 | 72  | 21 | 04 | 25 | 00 | 00 | 00 | 93          | 04 | 97  |
| Piggery Management                                                   | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Rabbit Management                                                    | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Disease Management                                                   | 05             | 100                 | 03 | 103 | 31 | 07 | 38 | 0  | 0  | 0  | 131         | 10 | 141 |
| Feed management                                                      | 05             | 110                 | 00 | 110 | 32 | 08 | 40 | 00 | 00 | 00 | 142         | 08 | 150 |
| Production of quality animal products                                | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Others, if any Goat farming                                          | 02             | 44                  | 00 | 44  | 13 | 00 | 13 | 00 | 00 | 00 | 57          | 00 | 57  |
| <b>V. Home Science/Women empowerment</b>                             |                |                     |    |     |    |    |    |    |    |    |             |    |     |
| Household food security by kitchen gardening and nutrition gardening | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Design and development of low/minimum cost diet                      | 01             | 08                  | 08 | 16  | 0  | 13 | 13 | 00 | 00 | 00 | 08          | 21 | 29  |
| Designing and development for high nutrient efficiency diet          | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Minimization of nutrient loss in processing                          | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Gender mainstreaming through SHGs                                    | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Storage loss minimization techniques                                 | 01             | 08                  | 05 | 13  | 02 | 09 | 11 | 00 | 00 | 00 | 10          | 14 | 24  |
| Enterprise development                                               | 01             | 30                  | 01 | 31  | 04 | 00 | 04 | 00 | 00 | 00 | 34          | 01 | 35  |
| Value addition                                                       | 03             | 18                  | 22 | 40  | 5  | 7  | 12 | 00 | 00 | 00 | 23          | 29 | 52  |
| Income generation activities for empowerment of rural Women          | 02             | 5                   | 54 | 59  | 03 | 13 | 16 | 00 | 00 | 00 | 8           | 67 | 75  |
| Location specific drudgery reduction                                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |

[illegible]

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| 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           |
| fodder                                         |                |                     |            |             |            |            |            |          |          |          |             |            |             |
| Production of Fish feed                        | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Others, if any                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| <b>X. Capacity Building and Group Dynamics</b> |                |                     |            |             |            |            |            |          |          |          |             |            |             |
| Leadership development                         | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Group dynamics                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Formation and Management of SHGs               | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Mobilization of social capital                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Entrepreneurial development of farmers/youths  | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| WTO and IPR issues                             | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Others, if any                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| XI Agro-forestry                               | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Production technologies                        | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Nursery management                             | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Integrated Farming Systems                     | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| <b>XII. Others (Agro meteorology)</b>          | 23             | 365                 | 75         | 440         | 148        | 34         | 182        | 00       | 00       | 00       | 513         | 109        | 622         |
| <b>TOTAL</b>                                   | <b>116</b>     | <b>2193</b>         | <b>242</b> | <b>2435</b> | <b>561</b> | <b>131</b> | <b>692</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2754</b> | <b>373</b> | <b>3127</b> |

### 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                                     | 08             | 123                 | 53 | 176 | 20 | 09 | 29 | 00 | 00 | 00 | 143         | 62 | 205 |
| Bee-keeping                                             | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Integrated farming                                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Seed production                                         | 02             | 46                  | 03 | 49  | 08 | 0  | 08 | 0  | 0  | 0  | 54          | 03 | 57  |
| Production of organic inputs                            | 01             | 26                  | 00 | 26  | 04 | 00 | 04 | 00 | 00 | 00 | 30          | 00 | 30  |
| Integrated Farming                                      | 01             | 21                  | 02 | 23  | 04 | 00 | 04 | 00 | 00 | 00 | 25          | 02 | 27  |
| Planting material production                            | 03             | 49                  | 05 | 54  | 07 | 02 | 09 | 00 | 00 | 00 | 56          | 07 | 63  |
| Vermi-culture                                           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Sericulture                                             | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Protected cultivation of vegetable crops                | 02             | 36                  | 02 | 38  | 8  | 01 | 9  | 00 | 00 | 00 | 44          | 03 | 47  |
| Commercial fruit production                             | 01             | 18                  | 0  | 18  | 09 | 00 | 9  | 00 | 0  | 0  | 27          | 0  | 27  |
| Repair and maintenance of farm machinery and implements | 02             | 28                  | 0  | 28  | 07 | 0  | 07 | 0  | 0  | 0  | 35          | 0  | 35  |
| Nursery Management of Horticulture crops                | 03             | 51                  | 0  | 51  | 09 | 0  | 09 | 0  | 0  | 0  | 60          | 00 | 60  |
| Training and pruning of orchards                        | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Value addition                                          | 04             | 58                  | 23 | 81  | 06 | 05 | 11 | 0  | 0  | 0  | 64          | 28 | 92  |
| Production of quality animal products                   | 0              | 0                   | 0  |     |    |    |    |    |    |    |             |    |     |

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| 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           |
| fodder                                         |                |                     |            |             |            |            |            |          |          |          |             |            |             |
| Production of Fish feed                        | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Others, if any                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| <b>X. Capacity Building and Group Dynamics</b> |                |                     |            |             |            |            |            |          |          |          |             |            |             |
| Leadership development                         | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Group dynamics                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Formation and Management of SHGs               | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Mobilization of social capital                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Entrepreneurial development of farmers/youths  | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| WTO and IPR issues                             | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Others, if any                                 | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| XI Agro-forestry                               | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Production technologies                        | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Nursery management                             | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| Integrated Farming Systems                     | 0              | 0                   | 0          | 0           | 0          | 0          | 0          | 0        | 0        | 0        | 0           | 0          | 0           |
| <b>XII. Others (Agro meteorology)</b>          | 23             | 365                 | 75         | 440         | 148        | 34         | 182        | 00       | 00       | 00       | 513         | 109        | 622         |
| <b>TOTAL</b>                                   | <b>116</b>     | <b>2193</b>         | <b>242</b> | <b>2435</b> | <b>561</b> | <b>131</b> | <b>692</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2754</b> | <b>373</b> | <b>3127</b> |

### 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                                     | 08             | 123                 | 53 | 176 | 20 | 09 | 29 | 00 | 00 | 00 | 143         | 62 | 205 |
| Bee-keeping                                             | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Integrated farming                                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Seed production                                         | 02             | 46                  | 03 | 49  | 08 | 0  | 08 | 0  | 0  | 0  | 54          | 03 | 57  |
| Production of organic inputs                            | 01             | 26                  | 00 | 26  | 04 | 00 | 04 | 00 | 00 | 00 | 30          | 00 | 30  |
| Integrated Farming                                      | 01             | 21                  | 02 | 23  | 04 | 00 | 04 | 00 | 00 | 00 | 25          | 02 | 27  |
| Planting material production                            | 03             | 49                  | 05 | 54  | 07 | 02 | 09 | 00 | 00 | 00 | 56          | 07 | 63  |
| Vermi-culture                                           | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Sericulture                                             | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Protected cultivation of vegetable crops                | 02             | 36                  | 02 | 38  | 8  | 01 | 9  | 00 | 00 | 00 | 44          | 03 | 47  |
| Commercial fruit production                             | 01             | 18                  | 0  | 18  | 09 | 00 | 9  | 00 | 0  | 0  | 27          | 0  | 27  |
| Repair and maintenance of farm machinery and implements | 02             | 28                  | 0  | 28  | 07 | 0  | 07 | 0  | 0  | 0  | 35          | 0  | 35  |
| Nursery Management of Horticulture crops                | 03             | 51                  | 0  | 51  | 09 | 0  | 09 | 0  | 0  | 0  | 60          | 00 | 60  |
| Training and pruning of orchards                        | 0              | 0                   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0           | 0  | 0   |
| Value addition                                          | 04             | 58                  | 23 | 81  | 06 | 05 | 11 | 0  | 0  | 0  | 64          | 28 | 92  |
| Production of quality animal products                   | 0              | 0                   | 0  |     |    |    |    |    |    |    |             |    |     |

### 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               | 02             | 47                  | 8  | 55  | 12 | 0  | 12  | 00 | 00 | 00 | 59          | 08  | 67  |
| Value addition                                        | 02             | 45                  | 35 | 80  | 10 | 00 | 10  | 00 | 0  | 0  | 55          | 35  | 90  |
| Integrated Pest Management                            | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Integrated Nutrient management                        | 01             | 10                  | 00 | 10  | 05 | 02 | 07  | 00 | 00 | 00 | 15          | 02  | 17  |
| Rejuvenation of old orchards                          | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Protected cultivation technology                      | 01             | 14                  | 03 | 17  | 04 | 01 | 05  | 00 | 00 | 00 | 18          | 04  | 22  |
| Formation and Management of SHGs                      | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Group Dynamics and farmers organization               | 01             | 52                  | 00 | 52  | 13 | 00 | 13  | 00 | 00 | 00 | 65          | 00  | 65  |
| Information networking among farmers                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Capacity building for ICT application                 | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Care and maintenance of farm machinery and implements | 02             | 43                  | 06 | 43  | 11 | 00 | 11  | 0  | 0  | 0  | 54          | 06  | 60  |
| WTO and IPR issues                                    | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Management in farm animals                            | 01             | 30                  | 02 | 32  | 08 | 00 | 08  | 00 | 00 | 00 | 38          | 02  | 40  |
| Livestock feed and fodder production                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Household food security                               | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Women and Child care                                  | 01             | 12                  | 20 | 32  | 3  | 5  | 8   | 0  | 0  | 0  | 15          | 25  | 40  |
| Low cost and nutrient efficient diet designing        | 01             | 00                  | 12 | 12  | 00 | 27 | 27  | 00 | 00 | 00 | 00          | 39  | 39  |
| Production and use of organic inputs                  | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| Gender mainstreaming through SHGs                     | 0              | 0                   | 0  | 0   | 0  | 0  | 0   | 0  | 0  | 0  | 0           | 0   | 0   |
| TOTAL                                                 | 12             | 253                 | 86 | 333 | 66 | 35 | 101 | 0  | 0  | 0  | 319         | 121 | 440 |

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

[illegible]

[illegible]

[illegible]

[illegible]

| 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             | 0              | 0                   | 0 | 0   | 0  | 0 | 0  | 0  | 0 | 0 | 0           | 0 | 0   |
| XI Agro-forestry           | 0              | 0                   | 0 | 0   | 0  | 0 | 0  | 0  | 0 | 0 | 0           | 0 | 0   |
| Production technologies    | 0              | 0                   | 0 | 0   | 0  | 0 | 0  | 0  | 0 | 0 | 0           | 0 | 0   |
| Nursery management         | 0              | 0                   | 0 | 0   | 0  | 0 | 0  | 0  | 0 | 0 | 0           | 0 | 0   |
| Integrated Farming Systems | 0              | 0                   | 0 | 0   | 0  | 0 | 0  | 0  | 0 | 0 | 0           | 0 | 0   |
| XII. Others (Pl. Specify)  |                |                     |   |     |    |   |    |    |   |   |             |   |     |
| TOTAL                      | 5              | 119                 | 0 | 119 | 22 | 4 | 26 | 0  | 0 | 0 | 141         | 4 | 145 |

### E)RURAL YOUTH (Off Campus)

[illegible]



| 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               | 01             | 23                  | 00       | 23        | 05        | 02       | 07        | 00       | 00       | 00       | 28          | 02       | 30        |
| Integrated Pest Management                            | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Integrated Nutrient management                        | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Rejuvenation of old orchards                          | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Protected cultivation technology                      | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Formation and Management of SHGs                      | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Group Dynamics and farmers organization               | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Information networking among farmers                  | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Capacity building for ICT application                 | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Care and maintenance of farm machinery and implements | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| WTO and IPR issues                                    | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Management in farm animals                            | 01             | 52                  | 00       | 52        | 15        | 00       | 15        | 00       | 00       | 00       | 67          | 00       | 67        |
| Livestock feed and fodder production                  | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Household food security                               | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Women and Child care                                  | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Low cost and nutrient efficient diet designing        | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Production and use of organic inputs                  | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Gender mainstreaming through SHGs                     | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| Crop intensification                                  | 0              | 0                   | 0        | 0         | 0         | 0        | 0         | 0        | 0        | 0        | 0           | 0        | 0         |
| <b>TOTAL</b>                                          | <b>2</b>       | <b>75</b>           | <b>0</b> | <b>75</b> | <b>20</b> | <b>2</b> | <b>22</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>95</b>   | <b>2</b> | <b>97</b> |

### **i. Farmers & Farm Women**

[illegible]

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[illegible]

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

[illegible]

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

[illegible]

|                                                       |           |            |           |            |           |           |            |          |          |          |            |            |            |
|-------------------------------------------------------|-----------|------------|-----------|------------|-----------|-----------|------------|----------|----------|----------|------------|------------|------------|
| Group Dynamics and farmers organization               | 1         | 52         | 0         | 52         | 13        | 0         | 13         | 0        | 0        | 0        | 65         | 0          | 65         |
| Information networking among farmers                  | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Capacity building for ICT application                 | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Care and maintenance of farm machinery and implements | 2         | 43         | 6         | 43         | 11        | 0         | 11         | 0        | 0        | 0        | 54         | 6          | 60         |
| WTO and IPR issues                                    | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Management in farm animals                            | 2         | 82         | 2         | 84         | 23        | 0         | 23         | 0        | 0        | 0        | 105        | 2          | 107        |
| Livestock feed and fodder production                  | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Household food security                               | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Women and Child care                                  | 1         | 12         | 20        | 32         | 3         | 5         | 8          | 0        | 0        | 0        | 15         | 25         | 40         |
| Low cost and nutrient efficient diet designing        | 1         | 0          | 12        | 12         | 0         | 27        | 27         | 0        | 0        | 0        | 0          | 39         | 39         |
| Production and use of organic inputs                  | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Gender mainstreaming through SHGs                     | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Crop intensification                                  | 0         | 0          | 0         | 0          | 0         | 0         | 0          | 0        | 0        | 0        | 0          | 0          | 0          |
| Others if any                                         | 2         | 45         | 35        | 80         | 10        | 0         | 10         | 0        | 0        | 0        | 55         | 35         | 90         |
| <b>TOTAL</b>                                          | <b>14</b> | <b>328</b> | <b>86</b> | <b>408</b> | <b>86</b> | <b>37</b> | <b>123</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>414</b> | <b>123</b> | <b>537</b> |

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

| Di<br>sci<br>pli<br>ne | Cli<br>ent<br>ele | Title of the training programme                         | Durat<br>ion in<br>days | Venue<br>(Off /<br>On<br>Campu<br>s) | Number of participants |            |           | Number of SC/ST |            |           |
|------------------------|-------------------|---------------------------------------------------------|-------------------------|--------------------------------------|------------------------|------------|-----------|-----------------|------------|-----------|
|                        |                   |                                                         |                         |                                      | Mal<br>e               | Fema<br>le | Tot<br>al | Mal<br>e        | Fema<br>le | Tot<br>al |
| Agrono<br>my           |                   |                                                         |                         |                                      |                        |            |           |                 |            |           |
| 1.                     | PF                | Package & Practice for seasme production                | 1                       | On                                   | 28                     | 3          | 31        | 4               | 3          | 7         |
| 2.                     | PF                | Scientific cultivation of sugarcane                     | 1                       | On                                   | 28                     | 1          | 29        | 5               | 1          | 6         |
| 3.                     | PF                | Agronomical practices of summer moong and blackgram     | 1                       | Off                                  | 29                     | 1          | 30        | 4               | 1          | 5         |
| 4.                     | PF                | Production techniques of minor millets                  | 1                       | On                                   | 27                     | 3          | 30        | 1               | 1          | 2         |
| 5.                     | PF                | Scientific cultivation of grren gram and black gram     | 1                       | On                                   | 28                     | 2          | 30        | 3               | 0          | 3         |
| 6.                     | PF                | Green manuring and its benefits                         | 1                       | On                                   | 21                     | 0          | 21        | 5               | 0          | 5         |
| 7.                     | PF                | Weed management in sugarcane                            | 1                       | On                                   | 22                     | 0          | 22        | 4               | 0          | 4         |
| 8.                     | PF                | Production technique of Dhaincha for green manuring     | 1                       | On                                   | 20                     | 0          | 20        | 4               | 0          | 4         |
| 9.                     | PF                | Cultivation paddy through DSR                           | 1                       | On                                   | 22                     | 0          | 22        | 6               | 0          | 6         |
| 10                     | PF                | Techniques of Raising Nursery for Paddy Transplanter.   | 1                       | On                                   | 28                     | 0          | 28        | 7               | 0          | 7         |
| 11                     | PF                | Weed Management in Paddy                                | 1                       | On                                   | 32                     | 0          | 32        | 6               | 0          | 6         |
| 12                     | PF                | Cultivation of Paddy through DSR and Paddy Transplanter | 1                       | On                                   | 23                     | 2          | 25        | 0               | 2          | 2         |
| 13                     | PF                | Seed Production technique of Pigeon pea.                | 1                       | On                                   | 24                     | 0          | 24        | 0               | 0          | 0         |
| 14                     | PF                | Weed management in Rice                                 | 1                       | On                                   | 19                     | 4          | 23        | 2               | 1          | 3         |
| 15                     | PF                | Weed management in Kharif Crops                         | 1                       | On                                   | 25                     | 4          | 29        | 4               | 0          | 4         |

|                                 |    |                                                                          |   |     |            |           |            |           |          |            |
|---------------------------------|----|--------------------------------------------------------------------------|---|-----|------------|-----------|------------|-----------|----------|------------|
| 16                              | PF | IFS model for East Champaran                                             | 1 | On  | 29         | 0         | 29         | 4         | 0        | 4          |
| 17                              | PF | Production technique of Vermi compost                                    | 1 | On  | 30         | 0         | 30         | 5         | 0        | 5          |
| 18                              | PF | Zero tillage Rai and lentil                                              | 1 | On  | 30         | 0         | 30         | 7         | 0        | 7          |
| 19                              | PF | Scientific cultivation of wheat                                          | 1 | On  | 30         | 0         | 30         | 6         | 0        | 6          |
| 20                              | PF | INM in rabi crops                                                        | 1 | On  | 30         | 0         | 30         | 7         | 0        | 7          |
| 21                              | PF | Inter cropping of QPM with Potato                                        | 1 | On  | 30         | 0         | 30         | 4         | 0        | 4          |
| 22                              | PF | Production technology of Sugarcane.                                      | 1 | On  | 30         | 0         | 30         | 4         | 0        | 4          |
| 23                              | PF | Integrated weed management in Rabi Crops.                                | 1 | On  | 30         | 0         | 30         | 5         | 0        | 5          |
|                                 |    | <b>Total</b>                                                             |   |     | <b>615</b> | <b>20</b> | <b>635</b> | <b>97</b> | <b>9</b> | <b>106</b> |
| 1.                              | RY | Different Components of IFS                                              | 3 | On  | 25         | 2         | 27         | 4         | 0        | 4          |
| 2.                              | RY | Scientific cultivation of millets                                        | 1 | On  | 27         | 3         | 30         | 4         | 0        | 4          |
| 3.                              | RY | Seed Production techniques of Kharif crops                               | 3 | On  | 23         | 0         | 23         | 0         | 0        | 0          |
| 4.                              | RY | Production of Vermi Compost                                              | 3 | On  | 30         | 0         | 30         | 4         | 0        | 4          |
|                                 |    | <b>Total</b>                                                             |   |     | <b>105</b> | <b>5</b>  | <b>110</b> | <b>12</b> | <b>0</b> | <b>12</b>  |
| 1.                              | EF | Seed Production Techniques of important Kharif crops                     | 1 | On  | 30         | 0         | 30         | 6         | 0        | 6          |
| 2.                              | EF | Seed Production Techniques of important Rabi Crops                       | 1 | Off | 28         | 2         | 30         | 5         | 2        | 7          |
|                                 |    | <b>Total</b>                                                             |   |     | <b>58</b>  | <b>2</b>  | <b>60</b>  | <b>11</b> | <b>2</b> | <b>13</b>  |
| <b>Agricultural Engineering</b> |    |                                                                          |   |     |            |           |            |           |          |            |
| 1.                              | PF | Resource conservation technology for crop production                     | 1 | Off | 29         | 0         | 29         | 3         | 0        | 3          |
| 2.                              | PF | Micro irrigation system                                                  | 1 | Off | 28         | 0         | 28         | 6         | 0        | 6          |
| 3.                              | PF | Maintenance of agricultural farm machinaries                             | 1 | On  | 22         | 0         | 22         | 0         | 0        | 0          |
| 4.                              | PF | Irrigation management in orchards                                        | 1 | On  | 28         | 0         | 28         | 3         | 0        | 3          |
| 5.                              | PF | Calibration and operation of Zero till cum ferti seed drill              | 1 | On  | 30         | 0         | 30         | 6         | 0        | 6          |
| 6.                              | PF | Improved harvesting machine for wheat and rai crop                       | 1 | On  | 29         | 0         | 29         | 4         | 0        | 4          |
| 7.                              | PF | Care and maintenance of farm machineries                                 | 1 | On  | 20         | 0         | 20         | 3         | 0        | 3          |
| 8.                              | PF | Cultivation of moongbean through zero tillage method                     | 1 | On  | 18         | 0         | 18         | 4         | 0        | 4          |
| 9.                              | PF | Importance and benefits of Summer ploughing                              | 1 | On  | 20         | 0         | 20         | 5         | 0        | 5          |
| 10                              | PF | Land leveling through Laser land leveler                                 | 1 | On  | 18         | 0         | 18         | 4         | 0        | 4          |
| 11                              | PF | DSR technique in climate change environment                              | 1 | On  | 22         | 0         | 22         | 4         | 0        | 4          |
| 12                              | PF | Techniques of in-situ and ex-situ soil moisture conservation             | 1 | On  | 25         | 0         | 25         | 6         | 0        | 6          |
| 13                              | PF | Types and use of different intercultural operation equipment             | 1 | On  | 24         | 0         | 24         | 3         | 0        | 3          |
| 14                              | PF | Drip Irrigation System                                                   | 1 | On  | 26         | 0         | 26         | 2         | 0        | 2          |
| 15                              | PF | Mechanical methods of weed management in kharif crops                    | 1 | On  | 24         | 0         | 24         | 6         | 0        | 6          |
| 16                              | PF | Rural groundwater recharge techniques                                    | 1 | On  | 22         | 0         | 22         | 2         | 0        | 2          |
| 17                              | PF | Types and Use of different intercultural operation equipment             | 1 | On  | 28         | 0         | 28         | 4         | 0        | 4          |
| 18                              | PF | Management of irrigation water application in Kharif Crops               | 1 | On  | 30         | 0         | 30         | 5         | 0        | 5          |
| 19                              | PF | Crop residue management using farm machineries                           | 1 | On  | 30         | 0         | 30         | 4         | 0        | 4          |
| 20                              | PF | Operation and maintenance of Zero till-cum-ferti drill machine           | 1 | On  | 30         | 0         | 30         | 6         | 0        | 6          |
| 21                              | PF | Establishment of major rabi crops through Zero till-cum-ferti seed drill | 1 | On  | 30         | 0         | 30         | 6         | 0        | 6          |
| 22                              | PF | Small farm tools for intercultural operations in Rabi crops              | 1 | On  | 30         | 0         | 30         | 3         | 0        | 3          |
| 23                              | PF | Management of Irrigation in Rabi Season                                  | 1 | Off | 26         | 0         | 26         | 4         | 0        | 4          |



|    |    |                                                                                                 |    |    |            |           |            |           |          |           |
|----|----|-------------------------------------------------------------------------------------------------|----|----|------------|-----------|------------|-----------|----------|-----------|
|    |    | crops                                                                                           |    |    |            |           |            |           |          |           |
| 24 | PF | Maintenance of drip/sprinkler system.                                                           | 1  | On | 30         | 0         | 30         | 5         | 0        | 5         |
|    |    | <b>Total</b>                                                                                    |    |    | <b>619</b> | <b>0</b>  | <b>619</b> | <b>98</b> | <b>0</b> | <b>98</b> |
| 1. | RY | Processing and Storage of seed                                                                  | 1  | On | 20         | 0         | 20         | 4         | 0        | 4         |
| 2. | RY | Installation, operation and maintenance of Micro irrigation system                              | 5  | On | 15         | 0         | 15         | 3         | 0        | 3         |
| 3. | RY | Role, classification and use of different Farm tools, implements and machineries in agriculture | 3  | On | 20         | 0         | 20         | 4         | 0        | 4         |
| 4. | RY | Storage of agricultural produce and packaging                                                   | 3  | On | 30         | 2         | 30         | 2         | 0        | 2         |
|    |    | <b>Total</b>                                                                                    |    |    | <b>85</b>  | <b>2</b>  | <b>85</b>  | <b>13</b> | <b>0</b> | <b>13</b> |
| 1. | EF | Use of Micro irrigation system for increasing the water use efficiency                          | 1  | On | 28         | 2         | 30         | 8         | 0        | 8         |
| 2. | EF | SRI Technique and its importance                                                                | 1  | On | 29         | 8         | 37         | 6         | 0        | 6         |
| 3. | EF | Use of Micro irrigation system for increasing the water use efficiency                          | 1  | On | 26         | 4         | 30         | 3         | 0        | 3         |
|    |    | <b>Total</b>                                                                                    |    |    | <b>83</b>  | <b>14</b> | <b>97</b>  | <b>17</b> | <b>0</b> | <b>17</b> |
|    |    | <b>Horticulture</b>                                                                             |    |    |            |           |            |           |          |           |
| 1. | PF | Scientific cultivation of marigold and it's marketing                                           | 3  | On | 22         | 2         | 24         | 0         | 0        | 0         |
| 2. | PF | Scope and importance of export of potentials Vegetables.                                        | 1  | On | 23         | 03        | 26         | 6         | 2        | 8         |
| 3. | PF | Care and mangament of Mango orchard                                                             | 3  | On | 17         | 2         | 19         | 2         | 0        | 2         |
| 4. | PF | Scientific cultivation of capsicum in polyhouse                                                 | 3  | On | 20         | 2         | 22         | 3         | 0        | 3         |
| 5. | PF | Protective cultivation of offseason vegetables.                                                 | 1  | On | 25         | 5         | 30         | 5         | 1        | 6         |
| 6. | PF | Care and management of litchi orchard                                                           | 1  | On | 23         | 0         | 23         | 4         | 0        | 4         |
| 7. | PF | Disease and Pest Management Of Mango Orchard                                                    | 1  | On | 16         | 0         | 16         | 2         | 0        | 2         |
| 8. | PF | Nursery raining of seasonal vegetables                                                          | 1  | On | 23         | 0         | 23         | 4         | 0        | 4         |
| 9. | PF | Scientific Cultivation of Turmeric                                                              | 1  | On | 27         | 0         | 27         | 6         | 0        | 6         |
| 10 | PF | Scientific cultivation and management of Banana Orchard                                         | 1  | On | 22         | 0         | 22         | 4         | 0        | 4         |
| 11 | PF | Scope and importance of Nutrient management in different vegetable crops.                       | 1  | On | 26         | 00        | 26         | 7         | 0        | 7         |
| 12 | PF | Scientific cultivation of cauliflower                                                           | 1  | On | 23         | 5         | 28         | 6         | 0        | 6         |
| 13 | PF | Scientific Cultivation of Turmeric                                                              | 1  | On | 29         | 0         | 29         | 6         | 0        | 6         |
| 14 | PF | Cultivation practices of Onion                                                                  | 1  | On | 30         | 0         | 30         | 4         | 0        | 4         |
| 15 | PF | Nursery raising and its different techniques.                                                   | 1  | On | 28         | 02        | 30         | 7         | 0        | 7         |
| 16 | PF | Scientific Cultivation of Turmeric                                                              | 1  | On | 29         | 0         | 29         | 6         | 0        | 6         |
| 17 | PF | Cultivation Practices of onion                                                                  | 1  | On | 30         | 0         | 30         | 4         | 0        | 4         |
| 18 | PF | Nuresry raising techniques in Polyhouse                                                         | 2  | On | 27         | 2         | 29         | 8         | 0        | 8         |
|    |    | <b>Total</b>                                                                                    |    |    | <b>440</b> | <b>23</b> | <b>463</b> | <b>84</b> | <b>3</b> | <b>87</b> |
| 1. | RY | Techniques of bed preparation and raising of nuresry vegetables                                 | 03 | On | 17         | 00        | 17         | 00        | 00       | 00        |
| 2. | RY | Technique of kharif nursery raising                                                             | 5  | On | 16         | 0         | 16         | 4         | 0        | 4         |
| 3. | RY | Scientific cultivation summer Vegetables                                                        | 1  | On | 22         | 3         | 25         | 3         | 1        | 4         |
| 4. | RY | Multiplication of mango plant through the method of grafting                                    | 5  | On | 18         | 0         | 18         | 5         | 0        | 5         |
| 5. | RY | Technique of Air layering in litchi and preparation of planting material                        | 3  | On | 19         | 5         | 24         | 6         | 0        | 6         |
| 6. | RY | Scientific cultivation of cauliflower and its disease and pest management                       | 3  | On | 22         | 0         | 22         | 7         | 0        | 7         |
| 7. | RY | Technique of seedling production under Protected cultivation                                    | 5  | On | 19         | 2         | 21         | 4         | 2        | 6         |
| 8. | RY | Scientific cultivation of potato and its disease and pest management                            | 3  | On | 28         | 0         | 28         | 8         | 0        | 8         |
| 9. | RY | Scientific cultivation of banana and its post                                                   | 5  | On | 27         | 0         | 27         | 9         | 0        | 9         |

|    |    |                                                              |   |    |            |            |            |           |           |           |
|----|----|--------------------------------------------------------------|---|----|------------|------------|------------|-----------|-----------|-----------|
|    |    | harvest management                                           |   |    |            |            |            |           |           |           |
|    |    | <b>Total</b>                                                 |   |    | <b>188</b> | <b>10</b>  | <b>198</b> | <b>46</b> | <b>3</b>  | <b>49</b> |
| 1. | EF | Scope and importance of INM in Horticultural crops           | 1 | On | 15         | 2          | 17         | 5         | 2         | 7         |
| 2. | EF | Protective cultivation of vegetables                         | 1 | On | 18         | 4          | 22         | 4         | 1         | 5         |
|    |    | <b>Total</b>                                                 |   |    | <b>33</b>  | <b>6</b>   | <b>39</b>  | <b>9</b>  | <b>3</b>  | <b>12</b> |
|    |    | <b>Home Science</b>                                          |   |    |            |            |            |           |           |           |
| 1. | PF | Storage of cereals in hermetic bags                          | 1 | On | 10         | 14         | 24         | 2         | 9         | 11        |
| 2. | PF | Milky Mushroom production                                    | 1 | On | 13         | 13         | 26         | 5         | 0         | 5         |
| 3. | PF | Nutrition and health education                               | 1 | On | 7          | 16         | 23         | 1         | 10        | 11        |
| 4. | PF | How to reduce malnutrition in children                       | 1 | On | 9          | 13         | 22         | 3         | 7         | 10        |
| 5. | PF | Milky Mushroom production                                    | 1 | On | 15         | 8          | 23         | 4         | 0         | 4         |
| 6. | PF | Self-employment through mushroom production                  | 1 | On | 8          | 7          | 15         | 3         | 0         | 3         |
| 7. | PF | Value added products from millets                            | 1 | On | 10         | 2          | 12         | 1         | 2         | 3         |
| 8. | PF | Mushroom Production for self-employment                      | 1 | On | 0          | 60         | 60         | 0         | 13        | 13        |
| 9. | PF | Employment generation through food processing                | 1 | On | 20         | 13         | 33         | 4         | 3         | 7         |
| 10 | PF | Value added products of fruits and vegetables                | 1 | On | 12         | 12         | 24         | 4         | 3         | 7         |
| 11 | PF | Importance of food processing and value added products       | 1 | On | 1          | 15         | 16         | 0         | 2         | 2         |
| 12 | PF | Design and Development of Low-Cost Complimentary Food        | 1 | On | 8          | 21         | 29         | 0         | 13        | 13        |
| 13 | PF | Mushroom Cultivation & Entrepreneurship development          | 1 | On | 34         | 1          | 35         | 4         | 0         | 4         |
|    |    | <b>Total</b>                                                 |   |    | <b>147</b> | <b>195</b> | <b>342</b> | <b>31</b> | <b>62</b> | <b>93</b> |
| 1. | RY | Mushroom Production                                          | 3 | On | 22         | 1          | 23         | 2         | 0         | 2         |
| 2. | RY | Mushroom Production                                          | 3 | On | 43         | 1          | 44         | 0         | 0         | 0         |
| 3. | RY | Food processing and value addition                           | 1 | On | 20         | 0          | 20         | 0         | 0         | 0         |
| 4. | RY | Processing and value addition of underutilized cereals       | 2 | On | 15         | 5          | 20         | 2         | 0         | 2         |
| 5. | RY | Milky Mushroom production                                    | 5 | On | 13         | 12         | 26         | 5         | 0         | 5         |
| 6. | RY | Mushroom Production                                          | 3 | On | 0          | 10         | 10         | 0         | 2         | 2         |
| 7. | RY | Preparation of value added products from millets             | 3 | On | 10         | 3          | 13         | 0         | 1         | 1         |
| 8. | RY | Mushroom Production                                          | 3 | On | 10         | 6          | 16         | 0         | 1         | 1         |
| 9. | RY | Food processing and Value Addition                           | 3 | On | 19         | 20         | 39         | 4         | 4         | 8         |
| 10 | RY | mushroom production                                          | 3 | On | 18         | 17         | 35         | 5         | 3         | 8         |
| 11 | RY | Mushroom Production                                          | 2 | On | 10         | 10         | 20         | 2         | 3         | 5         |
| 12 | RY | Mushroom Production                                          | 3 | On | 27         | 5          | 32         | 6         | 0         | 6         |
|    |    | <b>Total</b>                                                 |   |    | <b>207</b> | <b>90</b>  | <b>298</b> | <b>26</b> | <b>14</b> | <b>40</b> |
|    |    | <b>EF</b>                                                    |   |    |            |            |            |           |           |           |
| 1. | EF | Mushroom Production                                          | 3 | On | 0          | 39         | 39         | 0         | 27        | 27        |
| 2. | EF | Food processing and value addition                           | 1 | On | 30         | 0          | 30         | 5         | 0         | 5         |
| 3. | EF | Importance of balance diet                                   | 1 | On | 15         | 25         | 40         | 3         | 5         | 8         |
| 4. | EF | Food processing                                              | 1 | On | 25         | 35         | 60         | 5         | 0         | 5         |
|    |    | <b>Total</b>                                                 |   |    | <b>70</b>  | <b>99</b>  | <b>169</b> | <b>13</b> | <b>32</b> | <b>45</b> |
|    |    | <b>Vet Science</b>                                           |   |    |            |            |            |           |           |           |
| 1. | PF | Techniques of management of animals Waste in dairy farm      | 1 | On | 25         | 4          | 29         | 5         | 2         | 7         |
| 2. | PF | Control measure of acto and endo parasites in cattle         | 1 | On | 26         | 5          | 31         | 4         | 2         | 6         |
| 3. | PF | Management of ecto and endo parasite of dairy animals        | 1 | On | 22         | 0          | 22         | 2         | 0         | 2         |
| 4. | PF | Care and management of dairy animals during summer season    | 1 | On | 18         | 0          | 18         | 1         | 0         | 1         |
| 5. | PF | Important bacterial, viral and parasitic diseases in animals | 1 | On | 32         | 0          | 32         | 10        | 0         | 10        |
| 6. | PF | Vaccination schedule for animals                             | 1 | On | 30         | 0          | 30         | 13        | 0         | 13        |

|                |    |                                                                                        |   |     |            |           |            |            |           |            |
|----------------|----|----------------------------------------------------------------------------------------|---|-----|------------|-----------|------------|------------|-----------|------------|
| 7.             | PF | Selection and identification of milch animals                                          | 1 | On  | 30         | 0         | 30         | 7          | 0         | 7          |
| 8.             | PF | Feeding management of dairy animals                                                    | 1 | On  | 28         | 0         | 28         | 4          | 0         | 4          |
| 9.             | PF | Production and preservation of green fodder round the year                             | 1 | On  | 31         | 0         | 31         | 10         | 0         | 10         |
| 10.            | PF | Commercial goat farming                                                                | 1 | On  | 27         | 0         | 27         | 5          | 0         | 5          |
| 11.            | PF | Different types of housing system of goat                                              | 1 | On  | 30         | 0         | 30         | 8          | 0         | 8          |
| 12.            | PF | Production and preservation of green fodder round the year                             | 1 | On  | 31         | 0         | 31         | 6          | 0         | 6          |
| 13.            | PF | Different types of system for broiler rearing                                          | 1 | On  | 30         | 4         | 34         | 8          | 4         | 12         |
| 14.            | PF | Important breed for layer farming and its scope                                        | 1 | On  | 32         | 0         | 32         | 7          | 0         | 7          |
| 15.            | PF | Commercial broiler and layer farming                                                   | 1 | Off | 29         | 3         | 32         | 5          | 3         | 8          |
| 16.            | PF | Different types of housing system in poultry                                           | 1 | On  | 31         | 0         | 31         | 6          | 0         | 6          |
| 17.            | PF | Feeding schedule for poultry in different production system                            | 1 | On  | 25         | 5         | 30         | 3          | 5         | 8          |
| 18.            | PF | Clean milk production in dairy animals                                                 | 1 | On  | 27         | 3         | 30         | 9          | 3         | 12         |
| 19.            | PF | Important bacterial, viral and parasitic diseases in poultry                           | 1 | On  | 25         | 5         | 30         | 3          | 5         | 8          |
| 20.            | PF | Feeding schedule for poultry in different production system                            | 1 | On  | 27         | 3         | 30         | 9          | 3         | 12         |
| <b>Total</b>   |    |                                                                                        |   |     | <b>556</b> | <b>32</b> | <b>588</b> | <b>125</b> | <b>27</b> | <b>152</b> |
| 1.             | RY | Goat farming and its management                                                        | 5 | On  | 44         | 0         | 44         | 6          | 0         | 6          |
| 2.             | RY | Dairy farming and its management                                                       | 3 | Off | 40         | 2         | 42         | 2          | 0         | 2          |
| 3.             | RY | Dairy farming and its management                                                       | 3 | On  | 28         | 8         | 36         | 0          | 6         | 6          |
| 4.             | RY | Sheep farming and its management                                                       | 3 | On  | 14         | 0         | 14         | 0          | 0         | 0          |
| 5.             | RY | Scientific goat farming                                                                | 3 | On  | 39         | 2         | 41         | 4          | 0         | 4          |
| 6.             | RY | Dairyfarming for enterpreneureship Development                                         | 3 | On  | 41         | 1         | 42         | 5          | 0         | 5          |
| <b>Total</b>   |    |                                                                                        |   |     | <b>206</b> | <b>13</b> | <b>219</b> | <b>17</b>  | <b>6</b>  | <b>23</b>  |
| 1.             | EF | Vaccination Schedule for differernt disease in animals                                 | 1 | On  | 38         | 2         | 40         | 8          | 0         | 8          |
| 2.             | EF | Role of FPO in Livestock product development and marketing                             | 1 | On  | 65         | 0         | 65         | 13         | 0         | 13         |
| 3.             | EF | Management of anestrus and repeat breeding animal for higher production                | 1 | Off | 67         | 0         | 67         | 15         | 0         | 15         |
| <b>Total</b>   |    |                                                                                        |   |     | <b>170</b> | <b>2</b>  | <b>172</b> | <b>36</b>  | <b>0</b>  | <b>36</b>  |
| <b>Agromet</b> |    |                                                                                        |   |     |            |           |            |            |           |            |
| 1.             | PF | Climate Chanage and its impact on agriculture and allied sectors                       | 1 | On  | 17         | 10        | 27         | 5          | 5         | 10         |
| 2.             | PF | Climate change and agriculture                                                         | 1 | On  | 25         | 5         | 30         | 10         | 1         | 11         |
| 3.             | PF | Weather based crop irrigation                                                          | 1 | On  | 21         | 7         | 28         | 9          | 3         | 12         |
| 4.             | PF | Weather based agro-advisory                                                            | 1 | On  | 27         | 1         | 28         | 5          | 0         | 5          |
| 5.             | PF | Importance of agromet advisory services for agricultural crops                         | 1 | On  | 30         | 0         | 30         | 4          | 0         | 4          |
| 6.             | PF | Weather based management of summer crops                                               | 1 | On  | 24         | 6         | 30         | 8          | 2         | 10         |
| 7.             | PF | Weather based management of insect, pest and disease in summer crops                   | 1 | On  | 20         | 5         | 25         | 5          | 2         | 7          |
| 8.             | PF | Gramin Krishi Mausam Sewa- Concepts and implementation for sustainable crop production | 1 | On  | 23         | 2         | 25         | 2          | 0         | 2          |
| 9.             | PF | Importance of weather based agromet advisory services for Kharif crops                 | 1 | On  | 23         | 4         | 27         | 7          | 2         | 9          |
| 10.            | PF | Insect and pest dynamic in relation to weather for rice crop in East Champaran         | 1 | On  | 24         | 2         | 26         | 10         | 0         | 10         |
| 11.            | PF | Crop Weather relation in Kharif rice for N-W alluvial plain zone of Bihar              | 1 | On  | 23         | 4         | 27         | 8          | 0         | 8          |
| 12.            | PF | Insect and pest dynamic in relation to weather for rice crop in East Champaran         | 1 | On  | 25         | 4         | 29         | 9          | 2         | 11         |
| 13.            | PF | Crop Weather relation in Kharif rice for N-W alluvial plain zone of Bihar              | 1 | On  | 23         | 6         | 29         | 7          | 2         | 9          |

|              |    |                                                                                             |           |          |            |            |            |            |           |            |
|--------------|----|---------------------------------------------------------------------------------------------|-----------|----------|------------|------------|------------|------------|-----------|------------|
| 14           | PF | Insect and pest dynamic in relation to weather for rice crop in East Champaran              | 1         | On       | 25         | 4          | 29         | 7          | 2         | 9          |
| 15           | PF | Crop Weather relation in Kharif rice for N-W alluvial plain zone of Bihar                   | 1         | On       | 23         | 6          | 29         | 7          | 2         | 9          |
| 16           | PF | Agromet advisory for empowering farmers to mitigate climate change.                         | 1         | On       | 21         | 8          | 29         | 5          | 3         | 8          |
| 17           | PF | Climate smart agriculture-different techniques and possibilities in East Champaran district | 1         | On       | 23         | 6          | 29         | 7          | 2         | 9          |
| 18           | PF | Impact of climate change on crop production                                                 | 1         | On       | 18         | 4          | 22         | 5          | 0         | 5          |
| 19           | PF | Mitigation Strategies to combat climate change effect for sustainable crop production       | 1         | On       | 21         | 4          | 25         | 7          | 0         | 7          |
| 20           | PF | Impact of climate change on crop production                                                 | 1         | On       | 15         | 4          | 19         | 4          | 0         | 4          |
| 21           | PF | Mitigation Strategies to combat climate change effect for sustainable crop production       | 1         | On       | 18         | 3          | 21         | 5          | 1         | 6          |
| 22           | PF | Agromet advisory for empowering farmers to mitigate climate change.                         | 1         | On       | 21         | 8          | 29         | 5          | 3         | 8          |
| 23           | PF | Climate smart agriculture-different techniques and possibilities in East Champaran district | 1         | On       | 23         | 6          | 29         | 7          | 2         | 9          |
| <b>Total</b> |    |                                                                                             | <b>23</b> | <b>0</b> | <b>513</b> | <b>109</b> | <b>622</b> | <b>148</b> | <b>34</b> | <b>182</b> |

### 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 elsewhere |
|-------------------|------------------------|--------------------------------------------------------------------|-----------------|---------------------|-----------|-----------|------------------------------|-----------------|----------------------------|--------------------------------------|
|                   |                        |                                                                    |                 | Male                | Female    | Total     | Type of units                | Number of units | Number of persons employed |                                      |
| Bamboo Furniture  | Income Generation      | Bamboo Furniture and Handicraft                                    | 01              | 10                  | 10        | 00        | 10                           | Small           | 2                          | 10                                   |
| Honey Production  | Income Generation      | Quality honey Production, processing, marketing and value addition | 03              | 8                   | 61        | 14        | 75                           | Small           | 16                         | 42                                   |
| <b>Total</b>      |                        |                                                                    |                 | <b>18</b>           | <b>71</b> | <b>14</b> | <b>85</b>                    |                 | <b>18</b>                  | <b>52</b>                            |

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

### I) Sponsored Training Programmes

| Sl . | Title                                                                   | Thematic area   | Month | Duration (days) | Client   | No . of courses | No. of Participants |           |          |           |          |          |           |           |          |           | Sponsoring Agency |
|------|-------------------------------------------------------------------------|-----------------|-------|-----------------|----------|-----------------|---------------------|-----------|----------|-----------|----------|----------|-----------|-----------|----------|-----------|-------------------|
|      |                                                                         |                 |       |                 | PF/RY/EF |                 | Male                |           |          | Female    |          |          | Total     |           |          |           |                   |
|      |                                                                         |                 |       |                 |          |                 | Others              | SC        | ST       | Others    | SC       | ST       | Others    | SC        | ST       | Total     |                   |
| 1.   | Bud Chip Method of Sugarcane cultivation                                | Crop Production | March | 01              | PF       | 01              | 28                  | 06        | 00       | 00        | 00       | 00       | 28        | 06        | 00       | 35        | DRPCA U, Pusa     |
| 2.   | Food Processing                                                         | Value addition  | March | 40              | RY       | 01              | 10                  | 03        | 00       | 10        | 02       | 00       | 20        | 05        | 00       | 25        | MSME, Muzaffarpur |
| 3.   | Agri based products (honey, Jaggery and Mushroom Production/Processing) | Value addition  | March | 40              | RY       | 01              | 17                  | 02        | 00       | 5         | 01       | 00       | 22        | 03        | 00       | 25        | MSME, Muzaffarpur |
|      | <b>Total</b>                                                            |                 |       |                 |          | <b>3</b>        | <b>55</b>           | <b>11</b> | <b>0</b> | <b>15</b> | <b>3</b> | <b>0</b> | <b>70</b> | <b>14</b> | <b>0</b> | <b>85</b> |                   |

## J) Skill trainings organized under ARYA project

| SI. No.            | Enterprise Name                    | Date                   | Duration | No. of Beneficiaries |           | Total      |
|--------------------|------------------------------------|------------------------|----------|----------------------|-----------|------------|
|                    |                                    |                        |          | M                    | F         |            |
| 1.                 | Fish Farming                       | 15.01.2021-17.01.2021  | 03       | 26                   | 00        | 26         |
| 2.                 | Food Processing and value addition | 18.02.2021-20.02.2021  | 03       | 01                   | 24        | 25         |
| 3.                 | Food Processing and value addition | 12.03.2021-14.03.2021  | 03       | 15                   | 00        | 15         |
| 4.                 | Food Processing and value addition | 15.03.2021-17.03.2021  | 03       | 18                   | 02        | 20         |
| 5.                 | Food Processing and value addition | 18.03.2021-20.03.2021  | 03       | 20                   | 00        | 20         |
| 6.                 | Poultry Farming                    | 24.05.2021-26.05.2021  | 03       | 33                   | 02        | 35         |
| 7.                 | Goat Farming                       | 31.05.2021-02.06.2021  | 03       | 08                   | 04        | 12         |
| 8.                 | Goat Farming                       | 25.12.2021- 28.12.2021 | 03       | 19                   | 09        | 28         |
| <b>Grand Total</b> |                                    |                        |          | <b>140</b>           | <b>41</b> | <b>181</b> |

## H. Integrated Nutrient Management Training Programme Sponosred by DAO, Motihari

| SI. No.      | Title                               | Date                   | No. of Training Conducted | No. of Beneficiaries |           | Total      |
|--------------|-------------------------------------|------------------------|---------------------------|----------------------|-----------|------------|
|              |                                     |                        |                           | M                    | F         |            |
| 1.           | INM training for fertilizer dealers | 04.01.2021- 18.01.2021 | 01                        | 38                   | 02        | 40         |
| 2.           | INM training for fertilizer dealers | 25.01.2021-08.02.2021  | 01                        | 38                   | 02        | 40         |
| 3.           | INM training for fertilizer dealers | 04.03.2021-18.03.2021  | 01                        | 40                   | 00        | 40         |
| 4.           | INM training for fertilizer dealers | 11.08.2021-25.03.2021  | 01                        | 38                   | 02        | 40         |
| 5.           | INM training for fertilizer dealers | 26.08.2021-09.09.2021  | 01                        | 36                   | 04        | 40         |
| 6.           | INM training for fertilizer dealers | 14.09.2021-28.09.2021  | 01                        | 38                   | 02        | 40         |
| 7.           | INM training for fertilizer dealers | 30.09.2021-14.10.2021  | 01                        | 39                   | 01        | 40         |
| 8.           | INM training for fertilizer dealers | 09.12.2020-23.12.2021  | 01                        | 39                   | 01        | 40         |
| 9.           | INM training for fertilizer dealers | 28.12.2021-11.01.2021  | 01                        | 39                   | 01        | 40         |
| <b>Total</b> |                                     |                        | <b>09</b>                 | <b>345</b>           | <b>15</b> | <b>360</b> |

## 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                              | 06                | 96      | 18   | 114  | 4.5                 | 05                  | 0      | 05    | 101   | 18     | 119   |
| Kisan Mela                             | 03                | 7325    | 413  | 7738 | 16                  | 17                  | 07     | 24    | 7342  | 420    | 7762  |
| KisanGhoshthi                          | 08                | 692     | 83   | 775  | 12                  | 12                  | 05     | 17    | 704   | 88     | 792   |
| Exhibition                             | 02                | 52      | 07   | 59   | 13                  | 06                  | 02     | 07    | 58    | 9      | 67    |
| Film Show                              | 00                | 00      | 00   | 00   | 00                  | 00                  | 00     | 00    | 0     | 0      | 0     |
| Method Demonstrations                  | 08                | 311     | 13   | 324  | 8                   | 03                  | 00     | 03    | 314   | 13     | 327   |
| Farmers Seminar                        | 02                | 571     | 141  | 712  | 12                  | 04                  | 00     | 02    | 575   | 141    | 716   |
| Workshop                               | 02                | 79      | 15   | 94   | 11                  | 07                  | 01     | 08    | 86    | 16     | 102   |
| Group meetings                         | 00                | 00      | 00   | 00   | 00                  | 00                  | 00     | 00    | 0     | 0      | 0     |
| Lectures delivered as resource persons | 52                | 1682    | 212  | 1894 | 7                   | 09                  | 04     | 08    | 1691  | 216    | 1907  |
| Advisory Services                      | 667               | 8344    | 1031 | 9375 | 8.5                 | 04                  | 02     | 06    | 8348  | 1033   | 9381  |
| Scientific visit to farmers field      | 48                | 695     | 32   | 727  | 12                  | 25                  | 04     | 29    | 720   | 36     | 756   |
| Farmers visit to KVK                   | 01                | 5274    | 443  | 5717 | 16                  | 16                  | 03     | 19    | 5290  | 446    | 5736  |
| Diagnostic visits                      | 23                | 292     | 37   | 329  | 18                  | 06                  | 0      | 06    | 298   | 37     | 335   |
| Exposure visits                        | 15                | 560     | 15   | 575  | 13                  | 07                  | 01     | 08    | 567   | 16     | 583   |

### C. Celebration of important days

[illegible]

|                                                   |           |            |            |            |            |           |           |           |            |            |            |
|---------------------------------------------------|-----------|------------|------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|
| National Constitution Day (26 <sup>th</sup> Nov.) | 01        | 14         | 02         | 16         | 14         | 05        | 02        | 07        | 19         | 4          | 23         |
| World Soil Day (5 <sup>th</sup> Dec.)             | 01        | 34         | 0          | 34         | 16         | 03        | 0         | 03        | 37         | 0          | 37         |
| Kisan Diwas (23 <sup>rd</sup> Dec.)               | 01        | 39         | 01         | 40         | 12         | 03        | 01        | 0         | 42         | 02         | 44         |
| <b>Total</b>                                      | <b>17</b> | <b>594</b> | <b>145</b> | <b>739</b> | <b>241</b> | <b>52</b> | <b>17</b> | <b>65</b> | <b>646</b> | <b>162</b> | <b>808</b> |

#### 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.           | 14.05.2021    | Kisan Samman Nidhi                                                 | Hon'ble PM                   | 18           | 14        | 00         | 32         |
| 2.           | 16.07.2021    | 93rd ICAR foundation day & award ceremony                          | Hon'ble AM                   | 30           | 14        | 00         | 44         |
| 3.           | 26.08.2021    | Food and Nutrition for farmers                                     | Hon'ble AM                   | 86           | 09        | 00         | 95         |
| 4.           | 26.09.2021    | FPO/KrishkoevamNiryatakonkeliyeKshamtapravardhanamVayapparSammelan | Hon'ble AM                   | 42           | 02        | 00         | 44         |
| 5.           | 16.12.2021    | Natural Farming                                                    | Hon'ble PM                   | 417          | 17        | 01         | 435        |
| <b>Total</b> |               |                                                                    |                              | <b>459</b>   | <b>19</b> | <b>01</b>  | <b>479</b> |

### 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 |
|              |         |                     |            |                                                    |                                         |    |       |       |
|              |         |                     |            |                                                    |                                         |    |       |       |
|              |         |                     |            |                                                    |                                         |    |       |       |
| <b>Total</b> |         |                     |            |                                                    |                                         |    |       |       |

#### KVK farm

| Crop                    | Variety               | Quantity of seed (q) | Value (Rs) | Number of farmers to whom seed provided   |    |       |       |
|-------------------------|-----------------------|----------------------|------------|-------------------------------------------|----|-------|-------|
|                         |                       |                      |            | SC                                        | ST | Other | Total |
| 2020                    |                       |                      |            |                                           |    |       |       |
| Wheat                   | Karan Vandana         | 84.5                 | 297000     | 8                                         | 3  | 16    | 27    |
| Wheat                   | HD-2967               | 27.5                 | 120000     | 14                                        | 4  | 25    | 43    |
| Sugarcane + French bean | Rajendra-I and AZAD-1 | 185                  | 92500      | 5                                         | 1  | 10    | 16    |
| Lentil                  | HUL-57                | 3.5                  | 40250      | 3                                         | 2  | 12    | 17    |
| Rai                     | R. Suflam             | 5.5                  | 33000      | Supplied To DSF Pusa                      |    |       |       |
| Potato                  | Kufrishinduri         | 11.00                | 11000      | Planted at KVK farm                       |    |       |       |
| Grand Total             |                       | 317                  | 593750     | 30                                        | 10 | 63    | 103   |
| 2021                    |                       |                      |            |                                           |    |       |       |
| Paddy                   | R. Bhagwati           | 50.4                 | 12500      | Supplied To DSF Pusa                      |    |       |       |
| Paddy                   | R. Sweta              | 26.4                 | 66000      | In Farm Stock to be sold in <i>kharif</i> |    |       |       |

|                    |        |              |               |                                              |  |  |  |
|--------------------|--------|--------------|---------------|----------------------------------------------|--|--|--|
| Paddy              | DRR-50 | 28.4         | 70000         | In Farm Stock to be sold in<br><i>kharif</i> |  |  |  |
| <b>Grand Total</b> |        | <b>105.2</b> | <b>148500</b> |                                              |  |  |  |

### 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 |                                                     |                           |            |                                                      |    |       |       |
| Capsicum            | Indra &Neemalight                                   | 4000                      | 20000      | 15                                                   | 1  | 61    | 77    |
| Seedless cucumber   | Aviva &Yildo                                        | 4000                      | 20000      | 25                                                   | 0  | 25    | 50    |
| Broccoli            | Shishir F-1                                         | 4000                      | 8000       | 20                                                   | 1  | 65    | 86    |
| Tomato              | Namdhari- 4266                                      | 3000                      | 3000       | 35                                                   | 1  | 45    | 81    |
| Cabbage             | Ruby ball<br>Cabbage green                          | 5000                      | 5000       | 25                                                   | 1  | 55    | 81    |
| Colliflower         | Syngenta valentena,<br>Salasa&<br>Syngenta carotena | 5000                      | 5000       | 5                                                    | 0  | 60    | 65    |
| Hot pepper (Chili)  | Jewellery&Imperial                                  | 3000                      | 3000       | 6                                                    | 1  | 40    | 47    |
| Onion seed          | Reed nice &NHRDF<br>Red                             | 200kg                     | 8000       | 9                                                    | 0  | 17    | 26    |
| Summer squash       | Sharon green                                        | 500                       | 2500       |                                                      |    | 10    | 10    |
| Bottle gourd        | -                                                   | 1000                      | 5000       | 15                                                   | 1  | 25    | 41    |
| Brinjal             | -                                                   | 5000                      | 5000       | 2                                                    | 4  | 23    | 29    |
| Bitter Gourd        |                                                     | 500                       | 2500       | 1                                                    | 6  | 7     | 14    |
| Total               |                                                     | 35000                     | 87000      | 158                                                  | 16 | 433   | 607   |
| Ornamental plants   |                                                     |                           |            |                                                      |    |       |       |
| Marigold            | F-1 Hybrid (yellow and orange)                      | 4000                      | 2000       | 14                                                   | 0  | 30    | 44    |
| Tuberose            | -                                                   | 2000                      | 2000       | 12                                                   | 0  | 10    | 22    |
| Guldawdi            | -                                                   | 200                       | 1000       | 5                                                    | 0  | 4     | 9     |
| Total               |                                                     | 6200                      | 5000       | 31                                                   | 0  | 44    | 75    |
| Fruit plants        |                                                     |                           |            |                                                      |    |       |       |
| Guava               | L-49& Lalit                                         | 4000                      | 200000     | 45                                                   | 4  | 90    | 139   |
| Papaya              | Red lady 786 F-1 hybrid                             | 1000                      | 10000      | 12                                                   | 1  | 20    | 33    |
| Lemon               | Kagji                                               | 2000                      | 90000      | 12                                                   | 4  | 28    | 44    |
| Mango               | Amrapali, Maldah,<br>Malika, Dashari,<br>Zarda      | 1000                      | 90000      | 15                                                   | 6  | 79    | 100   |
| Aonla               | Kanchan                                             | 500                       | 20000      | 12                                                   | 0  | 59    | 71    |
| Coconut             | South Tall                                          | 500                       | 20000      | 15                                                   | 2  | 89    | 106   |
| Total               |                                                     | 9000                      | 430000     | 96                                                   | 15 | 276   | 387   |
| Timber Plants       |                                                     |                           |            |                                                      |    |       |       |



|              |                                                        |             |              |           |          |            |            |
|--------------|--------------------------------------------------------|-------------|--------------|-----------|----------|------------|------------|
| Bamboo       | BamboosaTulda,<br>BamboosaHamiltony<br>BamboosaHookery | 2000        | 40000        | 12        | 2        | 45         | 59         |
| Teak         | -                                                      | 500         | 10000        | 17        | 0        | 35         | 52         |
| Mahogni      | -                                                      | 500         | 10000        | 19        | 0        | 40         | 59         |
| <b>Total</b> |                                                        | <b>3000</b> | <b>60000</b> | <b>48</b> | <b>2</b> | <b>120</b> | <b>170</b> |

### Production of Bio-Products

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

### Production of livestock materials

| Particulars of Live stock | Name of the breed | Number  | Value (Rs.) | No. of Farmers benefitted |    |       |       |
|---------------------------|-------------------|---------|-------------|---------------------------|----|-------|-------|
|                           |                   |         |             | SC                        | ST | Other | Total |
| <b>Dairy animals</b>      |                   |         |             |                           |    |       |       |
| Cows                      |                   |         |             |                           |    |       |       |
| Buffaloes                 |                   |         |             |                           |    |       |       |
| Calves                    |                   |         |             |                           |    |       |       |
| Milk                      |                   | 6371.5  | 216015      |                           |    |       |       |
| <b>Small ruminants</b>    |                   |         |             |                           |    |       |       |
| Sheep                     |                   |         |             |                           |    |       |       |
| Goat                      |                   |         |             |                           |    |       |       |
| Other, please specify     |                   |         |             |                           |    |       |       |
| <b>Poultry</b>            |                   |         |             |                           |    |       |       |
| Broilers                  |                   | 37.6 kg | 7520        |                           |    |       |       |
| Layers                    |                   |         |             |                           |    |       |       |
| Duals (broiler and layer) |                   | 1252    | 31300       |                           |    |       |       |
| Japanese Quail            |                   |         |             |                           |    |       |       |
| Turkey                    |                   |         |             |                           |    |       |       |
| Emu                       |                   |         |             |                           |    |       |       |
| Ducks                     |                   |         |             |                           |    |       |       |
| Eggs                      |                   | 2019    | 20190       |                           |    |       |       |
| <b>Piggery</b>            |                   |         |             |                           |    |       |       |
| Piglet                    |                   |         |             |                           |    |       |       |
| Hog                       |                   |         |             |                           |    |       |       |
| Others (Pl. specify)      |                   |         |             |                           |    |       |       |
| <b>Fisheries</b>          |                   |         |             |                           |    |       |       |
| Indian carp               |                   |         |             |                           |    |       |       |
| Exotic carp               |                   |         |             |                           |    |       |       |
| Mixed carp                |                   |         |             |                           |    |       |       |
| Fish fingerlings          |                   |         |             |                           |    |       |       |
| Spawn                     |                   |         |             |                           |    |       |       |

|                      |  |  |  |  |
|----------------------|--|--|--|--|
| Others (Pl. specify) |  |  |  |  |
| Grand Total          |  |  |  |  |

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

i) Name of Seed Hub Centre:

|                         |                                 |
|-------------------------|---------------------------------|
| Name of Nodal Officer : | Dr. A. K. Singh                 |
| Address :               | KVK, Piprakothi, East Champaran |
| e-mail :                | head.kvk.piprakothi@rpcu.ac.in  |
| Mobile No. :            | 9473000861                      |

ii) Quality Seed Production Reports

| Season             | Crop       | Variety | Production (q) |                |               |                            |
|--------------------|------------|---------|----------------|----------------|---------------|----------------------------|
|                    |            |         | Target         | Area sown (ha) | Production    | Category of Seed(F/S, C/S) |
| Rabi 2020          | Lentil     | HUL-57  | 700            | 10             | 98.8          | B/S                        |
| Kharif 2021        | Pigeon Pea | IPA-203 | 250            | 10             | Crop Standing | B/S                        |
| Rabi 2021          | Lentil     | HUL-57  | 500            | 10             |               | F/S                        |
| Summer/Spring 2021 |            |         |                |                |               |                            |

iii) Financial Progress

| Fund received<br>(2016-17, 2017-18, 2019, 2020 and 2021) | Expenditure (Rs. in lakhs) |                | Unspent balance<br>(Rs. in lakhs) | Remarks |
|----------------------------------------------------------|----------------------------|----------------|-----------------------------------|---------|
|                                                          | Infrastructure             | Revolving fund |                                   |         |
| 2016-17                                                  | 50.00                      | 35.00          | 33.00                             |         |
| 2017-18                                                  | -                          | 35.00          | -                                 |         |
| 2018-19                                                  | -                          | 29.00          | -                                 |         |
| 2019                                                     | -                          | 7.61           | 96.72                             |         |
| 2020                                                     | -                          | 5.50           | 94.79                             |         |
| 2021                                                     | -                          | 5.75           | 96.82                             |         |

iv) Infrastructure Development

| Item                   | Progress                                                                                             |
|------------------------|------------------------------------------------------------------------------------------------------|
| Seed processing unit   | Seed processing plant has been set up.<br>Construction of seed storage structure has been completed. |
| Seed storage structure |                                                                                                      |

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

| Item                                                                                                   |                                                        |               |                    |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------|--------------------|
| <b>Research paper</b>                                                                                  |                                                        |               |                    |
| <b>Title</b>                                                                                           | <b>Author's name</b>                                   | <b>Number</b> | <b>Circulation</b> |
| Economic Assessment of Weather Based Agromet Advisories Issued by KVK East Champaran District of Bihar | Neha Pareek, A.K. Singh, Neelam Kumari and Gulab Singh |               |                    |
| <b>Seminar/conference/ symposia papers</b>                                                             |                                                        |               |                    |
| <b>Title</b>                                                                                           | <b>Author's name</b>                                   | <b>Number</b> | <b>Circulation</b> |
| Assessment of Self-made balanced                                                                       | Shailendra Rajak, Arvind Kumar Singh,                  |               |                    |

|                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|
| concentrate mixture feeding on milk production in crossbreed                                                    | Neelam Kumari, AnshuGangwar, Neha Kumari, Manish Kumar, Anand Kumar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                    |
| Effect of varying potassium levels on yield and economic parameters of Direct Seeded Rice-DSR (Oryza sativa L.) | Arvind Kumar Singh, Kamlesh Kumar Singh, Rajeev Kumar Srivastava,M.S. Kundu and Anjani Kumar Singh.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                    |
| Striking the hunger challenges of Bihar through assured irrigation: An innovative community approach            | Ramesh Chandra Srivastava, Mithilesh Kumar, Nitendra Kumar Singh, Ratnesh Kumar Jha, Abdus Sattar, Ravindra Kumar Tiwari, Abhay Kumar Singh,Arbind Kumar Singh, Sudhir Das, Ram Pal, Sunita Kushwah, AnuradhaRanjanKumari, Motilal Meena, Santosh Kumar Gupta, Divyanshu Shekhar, SanjayKumar Rai, Shishir Kumar Gangwar, Ram Krishna Rai, Ram Ishwar Prasad,AbhishekPratap Singh, Rajendra Pratap Singh, Shailesh Kumar, Sanjay Kumar, Surendra Prasad, Ashish Rai, Sarvesh Kumar, Vinita Kashyap, Sunita Kumari, Krishna Bahadur Chhetri, Nidhi Kumari, Tarun Kumar, Ram Prawesh Prasad,Rajendra Prasad, Dhiru Kumar Tiwari, NavinKumar, Sachchidanand Prasad ,AnshuGangwar |               |                    |
| Extension ofOilseed Crops amongst Farmers' an Approach for Self Reliant India                                   | Arvind Kumar Singh, AnshuGangwar, Ashish Rai, ManishKumar and Anand Kumar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                    |
| Managing soil health using organic amendments to enhance soil carbon, storage and mitigate climate change       | Ashish Rai, Arvind Kumar Singh, AnshuGangwar,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                    |
| <b>Books</b>                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Title</b>                                                                                                    | <b>Author's name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Number</b> | <b>Circulation</b> |
| Farm Tools and Machinery in Crop Production (ISBN: 978-81-928781-1-5)                                           | Subhash Chandra, Madhvendra Singh, Vivek Kumar Bajpai, <b>AnshuGangwar</b> , Niru Kumari, Vivekanand Singh, Mukul Kumar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                    |
| <b>Bulletins</b>                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Title</b>                                                                                                    | <b>Author's name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Number</b> | <b>Circulation</b> |
| कृषिपराशर                                                                                                       | अभिषेकप्रतापसिंह, <b>अरविंदकुमारसिंह</b><br>आशीषरायएवंशैलेन्द्रकुमाररजक.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                    |
| <b>News letter</b>                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Popular Articles</b>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Title</b>                                                                                                    | <b>Author's name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Number</b> | <b>Circulation</b> |
| फसल अवशेष प्रबंधन कैसे करें?                                                                                    | अंशूगंगवार, अरविन्द कुमार सिंह, राजीव कुमार श्रीवास्तव, आशीष राय, मनीष कुमार                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                    |
| Rainwater Harvesting: An Overview                                                                               | KanhuCharan Panda and AnshuGangwar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                    |
| <b>Book Chapter</b>                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Extension Pamphlets/ literature</b>                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                    |
| <b>Title</b>                                                                                                    | <b>Author's name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Number</b> | <b>Circulation</b> |
| संसाधनसंरक्षणतकनीकियाँ                                                                                          | डा. अरविन्दकुमार सिंह, इ. अंशूगंगवार, डा. नीलमकुमारी, डॉ. अनिलकुमार सिंह, डॉ एस. के. सिंह, आशीषराय, डा. शैलेन्द्रकुमाररजक, नेहापारीक, मनीषकुमार, आनंदकुमार                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                    |
| हरी खादमिट्टी की जान                                                                                            | आशीषराय,डा. अरविन्दकुमार सिंह,इ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                    |

|                                                         |                                                                                                                                                                                 |  |  |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                         | अंशूगंगवार,डा. नीलमकुमारी,डॉ. अनिलकुमार सिंह,<br>डॉ एस. के. सिंह,डा.<br>शैलेन्द्रकुमाररजक,नेहापारीक,मनीषकुमार,आनंदकुमार                                                         |  |  |
| मौसमआधारित कृषिपरामर्शसेवाओं का<br>दलहन की खेतीमेंमहत्व | नेहापारीक,डा. अरविन्दकुमार सिंह,डा.<br>नीलमकुमारी,डॉ. अनिलकुमार सिंह, डा.<br>शैलेन्द्रकुमाररजक,इं.<br>अंशूगंगवार,मनीषकुमार,आनंदकुमार                                            |  |  |
| आधुनिकगाय पालन                                          | डा. शैलेन्द्रकुमाररजक,डा. अरविन्दकुमार सिंह,डा.<br>नीलमकुमारी,इं. अंशूगंगवार,डॉ. अनिलकुमार<br>सिंह,नेहापारीक,मनीषकुमार,आनंदकुमार                                                |  |  |
| गेंदाफूल की व्यावसायिक खेती                             | डॉ. अनिलकुमार सिंह, डा. अरविन्दकुमार सिंह,डा.<br>नीलमकुमारी,डॉ एस. के. सिंह, डॉ टी. पी. महतो,<br>इं. अंशूगंगवार, आशीषराय,डा.<br>शैलेन्द्रकुमाररजक,नेहापारीक,मनीषकुमार,आनंदकुमार |  |  |
| जीरोटिलेजविधि से मसूर की खेती                           | इं. अंशूगंगवार, डा. अरविन्दकुमार सिंह,डा.<br>नीलमकुमारी,डॉ अनिलकुमार सिंह, डॉ एस. के.<br>सिंह,आशीषराय,डा.<br>शैलेन्द्रकुमाररजक,नेहापारीक,मनीषकुमार,आनंदकुमार                    |  |  |
| <b>Technical reports</b>                                |                                                                                                                                                                                 |  |  |
| <b>Electronic Publication (CD/DVD<br/>etc)</b>          |                                                                                                                                                                                 |  |  |
| <b>TOTAL</b>                                            |                                                                                                                                                                                 |  |  |

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.      | Online Course                     | Geospatial Modelling for Watershed Management                                                  | AnshuGangwar<br>SMS, Agril. Engg. (SWE)       | 02-08-2021 to 06-08-2021 | IIRS, Dehradun                                     |
| 2.      | Training Program                  | Technological interventions for rural entrepreneurship and farmers prosperity in Eastern India | Shailendra Kumar Rajak<br>SMS, (Vet Science)  | 27.07.2021 to 30.07.2021 | ICAR-IIWBR, Karnal                                 |
| 3.      | Training                          | Gem & GST , Accounts                                                                           | Dr. Neelam Kumari<br>SMS, (Community Science) | 10.03.2021               | DR. RPCAU, PUSA                                    |
| 4.      | Training (Virtual Mode)           | Entrepreneurship development Mushroom                                                          | Dr. Neelam Kumari<br>SMS, (Community Science) | 18-20.05.2021            | CAEIR, Mangae Hyderabad with ICAR-DMR, Solan, H.p. |
| 5.      | Training Programme (Virtual Mode) | Energy Dense Nutritional food preparation                                                      | Dr. Neelam Kumari<br>SMS, (Community Science) | 17.06.2021               | Directorate of ICDS, Patna, Bihar                  |
| 6.      | Training                          | Seed Production , Storage and Processing                                                       | Sri Manish Kumar<br>Farm Manager              | 13.09.2021 - 15.09.2021  | DSF, RPCAU, Pusa                                   |

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

|                |                                                          |
|----------------|----------------------------------------------------------|
| Name of farmer | Shri Keshvan Singh                                       |
| Address        | Vill. - Ahrauliya, Block - Kotwa, Distt.- East Champaran |

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact details (Phone, mobile, email Id)                                            | Mob: +91-9955779497                                                                                                                                                                                                                                                                                                                                                             |
| Landholding (ha.)                                                                    | 12                                                                                                                                                                                                                                                                                                                                                                              |
| Name and description of the farm/ enterprise                                         | <ul style="list-style-type: none"> <li>• Rai Sowing with zero tillage technique</li> <li>• High yielding variety</li> <li>• Quality Seed</li> <li>• Seed treatment through biofertilizer</li> <li>• Application of Sulphur</li> </ul>                                                                                                                                           |
| Economic impact                                                                      | He is a regular cultivator of Rai crop in 2 acre in every year. Before the adoption of technologies, he was getting 8.34 qt production, input cost Rs. 16569.00, gross cost Rs. 35028.00, and net income Rs. 18459.00. After adoption of the technology he obtain the 13.16 qt production, input cost Rs. 14856.00, gross cost Rs 56588.00, and net income Rs. 41732.00 per ha. |
| Social impact                                                                        | The crop production under the given technique encouraged to other farmers for adopting the cultivation of oilseeds with Zero tillage technique. Therefore, they can reduce their cost of cultivation and enhance the crop production as well as income.                                                                                                                         |
| Environmental impact                                                                 | Following agriculture practices is a way for crop residue management, which also helps to maintain sustainability of the soil fertility.                                                                                                                                                                                                                                        |
| Horizontal/ Vertical spread                                                          | He gained high yield of Rai crop through ZT, HYV along with recommended practices. For this context, 21 farmers happily adopt this technology in 28 acre area.                                                                                                                                                                                                                  |
|  |                                                                                                                                                                                                                                                                                                                                                                                 |

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 |
|---------|-------------------------------|-----------------------------------|--------------------------------------------|
|         |                               |                                   |                                            |

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                                                                                                |
|---------|--------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1.      | Cereals and pulses | Storage of Grain in Bamboo and Mud based structure | To protect stored grains against pest infestation by mixing grains with protectant made up of plant products. |
| 2.      | Mango              | Spraying of Neem Oil                               | To control hoppers in mango orchard                                                                           |

b. Give details of organic farming practiced by the farmer

| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production | No. of farmers involved | Market available (Y/N) |
|---------|-------------------|------------------------|------------|-------------------------|------------------------|
| 1       | Potato            | 2.4                    | 200 kg/ha  | 12                      | Y                      |

|   |       |   |          |   |   |
|---|-------|---|----------|---|---|
| 2 | Maize | 1 | 44 q /ha | 3 | Y |
|---|-------|---|----------|---|---|

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 Soiland Water Testing Laboratory

| Sl. No | Name of the Equipment         | Qty. |
|--------|-------------------------------|------|
| 1      | EC meter                      | 1    |
| 2      | pH meter                      | 1    |
| 3      | Oven                          | 1    |
| 4      | Hydrometer                    | 2    |
| 5      | Tensiometer                   | 1    |
| 6      | AAS                           | 1    |
| 7      | Single Beam Spectrophotometer | 1    |
| 8      | Flame photometer              | 1    |
| 9      | Nitrogen Analyzer             | 1    |
| 10     | Mechanical Shaker             | 1    |
| 11     | Mechanical Stirrer            | 1    |

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 |
| 0                                  | 679                             | 679   |

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            | 679                     | 41              | 388            | 33950.00              |
| 2.  | Water           | 02                      | 01              | 01             | Nil                   |
| 3.  | Plant           |                         |                 |                |                       |
| 4.  | Fertilizers     |                         |                 |                |                       |
| 5.  | Manures         |                         |                 |                |                       |
| 6.  | Food            |                         |                 |                |                       |
| 7.  | Others (if any) |                         |                 |                |                       |

3.11.d. Details on World Soil Day

| S. N. | Activity                                                                                                                                                                                                                                                    | No. of Participants | No. of VIPs | Name (s) of VIP(s) | Number of Soil Health Cards distributed | No. of farmers benefitted |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|--------------------|-----------------------------------------|---------------------------|
| 1.    | <ul style="list-style-type: none"> <li>• Soil sampling technique</li> <li>• Importance of soil for sustainable crop production</li> <li>• Importance of Organic matter in soil</li> <li>• Balance use of Fertilizer on the basis of soil testing</li> </ul> | 34                  | 0           | 0                  | 13                                      | 13                        |

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.)                                                                                                              |
|--------------------------|-----------------------|--------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 6                        | 17                    | -                              | 2156                       | Director, Extension Education, DRPCA, Pusa, Assistant Director (Horticulture), Motihari, Assistant Director (Plant Protection), Motihari, |

### 3.13. Technology week celebration

| Type of activities                     | No. of activities | Number of participants | Related crop/livestock technology |
|----------------------------------------|-------------------|------------------------|-----------------------------------|
| Solar Tree                             | 02                | 73                     | Irrigation management             |
| Direct Seeded Rice (Rice-Wheat Seeder) | 03                | 84                     | Paddy                             |

### 3.14. RAWF/ FETprogramme - is KVK involved? (Y)

| No of student trained | No of days stayed |
|-----------------------|-------------------|
| 11                    | 90                |

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

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

| Date       | Name of the person                                                                                                                                                                                                        | Purpose of visit                                                                            |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 16.03.2021 | Dr. Virendra Singh, Director, Directorate of Rice Development, Govt. of India                                                                                                                                             | Monitoring of Pulse Seed hub and CFLD program                                               |
| 18.03.2021 | Dr. M. S. Kundu, Director, Directorate of Extension Education, DRPCA, Pusa, Bihar                                                                                                                                         | To Monitor Bamboo processing unit                                                           |
| 22.03.2021 | Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar                                                                                                                               | Chief guest of World Water Day and Workshop on Fisheries development for fisherman of Bihar |
| 22.05.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India and Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar                          | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
| 23.05.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India                                                                                                                          | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
| 05.06.2021 | Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar                                                                                                                               | Plantation on the occasion of World Environment Day - 2021                                  |
| 08.06.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India                                                                                                                          | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
| 25.06.2021 | Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Dr. M. S. Kundu, Director Extension Education, Director Research, Dr. K. K. Singh, Dean, Pt. DDU College of Horticulture and Forestry, Piprakothi                          | Look out the work progress of Pt. DDU College of Horticulture and Forestry, Piprakothi      |
| 03.07.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, Shri Shyam Babu Yadav, MLA, Pipra, Shri Krishan Nandan Paswan, MLA, Harisidhi, Shri Sunil Mani Tiwari, MLA, Govindganj, | Distribution of 10000 Anola plants to the farmers                                           |
| 14.08.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar, Shri Yogendra              | SahkaarSammelan                                                                             |

|            |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|            | Kumar, Marketing Director, IFFCO, New Delhi, Shri Shyam Babu Yadav, MLA, Pipra, Shri Krishan Nandan Paswan, MLA, Harisidhi, Shri Sunil Mani Tiwari, MLA, Govindganj, Dr. Anjani Kumar, Director, ICAR-ATARI, Patna, Dr. Ujjawal Kumar, Director, ICAR-RCER, Patna, Shri Surendra Sahgal, Regional Director, NCDC, Patna, Shri VijatTarane, Regional Manager, Patna |                                                                                                         |
| 15.08.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, Shri Janak Ram, Hon'ble Minister, Ministry of Mines & Geology, Govt. of Bihar, ShriShyam Babu Yadav, MLA, Pipra, Shri Krishan Nandan Paswan, MLA, Harisidhi, Shri Sunil Mani Tiwari, MLA, Govindganj, Dr. Anjani Kumar, Director, ICAR-ATARI, Patna,             | Kisan Sammelan                                                                                          |
| 20.08.2021 | Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Dr. M. S. Kundu, Director Extension Education, Dr. Mithlesh Kumar, Director Research, Dr. K. K. Singh, Dean, Pt. DDU College of Horticulture and Forestry, Piprakothi Dr. S. K. Jain, Director, B & I, RPCAU, Pusa                                                                                                  | Look out the work progress of Convocation program                                                       |
| 07.09.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, Shri Manoj Jha, Hon'ble Rajya Sabha MP, Shri Gopal ji, Hon'ble MP, Darbhanga, Respected DRM, Shri Shyam Babu Yadav, MLA, Pipra, Shri Krishan Nandan Paswan, MLA, Harisidhi, Shri Sunil Mani Tiwari, MLA, Govindganj,                                             | To visit demonstration units at KVK Piprakothi                                                          |
| 17.09.2021 | Shri Krishan Nandan Paswan, Respected MLA, Harisidhi,                                                                                                                                                                                                                                                                                                              | Chief guest of PosahVaatikaMahaabhiyaanAnd Plantation                                                   |
| 30.09.2021 | Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India                                                                                                                                                                                                                                                                   | Look out the work progress of inauguration program                                                      |
| 01.10.2021 | Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Dr. M. S. Kundu, Director Extension Education, Director Research, Dr. K. K. Singh, Dean, Pt. DDU College of Horticulture and Forestry, Piprakothi                                                                                                                                                                   | Look out the work progress of Convocation and inauguration program                                      |
| 13.10.2021 | Shri Jivesh Mishra, Hon'ble Minister, Ministry of Employment, Govt. of Bihar                                                                                                                                                                                                                                                                                       | To visit demonstration units at KVK Piprakothi                                                          |
| 17.10.2021 | Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Shri Shirshat Kapil Ashok, Respected DM, Motihari, Shri Naveen Jha, Resected SP, motihari, DR. P. P. Srivastava, Registrar, Dr. M. S. Kundu, Director Extension Education, Director Research, Dr. K. K. Singh, Dean, Pt. DDU College of Horticulture and Forestry, Piprakothi                                       | Look out the work progress of Convocation and inauguration program                                      |
| 31.10.2021 | Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar                                                                                                                                                                                                                                                                        | Garlanding the statue of Sardar Patel on the occasion of birth anniversary of Sardar Vallabh Bhai Patel |
| 05.11.2021 | Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Shri Shirshat Kapil Ashok, Respected DM, Motihari, Shri Naveen Jha, Resected SP, motihari, DR. P. P. Srivastava, Registrar, Dr. M. S. Kundu, Director Extension Education, Director Research, Dr. K. K. Singh, Dean, Pt. DDU College of Horticulture and Forestry, Piprakothi                                       | Look out the work progress of Convocation and inauguration program                                      |
| 07.11.2021 | Shri V. Naidu, Hon'ble Vice President, Govt. of India, Shri Phagu Chauhan, Hon'ble Governor, Govt. of Bihar, Shri Nirish Kumar, Hon'ble Chief Minister, Bihar,                                                                                                                                                                                                     | 2 <sup>nd</sup> Convocation program of DRPCAUI, Pusa.                                                   |



|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | Shrimati Renu Devi, Hon'ble Deputy Chief Minister, Bihar, Shri Radha Mohan Singh, Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, Shri Pramod Kumar, Hon'ble Minister, Ministry of law and Sugarcane industry, Govt. of Bihar, Dr. T. Mahapatra, DG- ICAR and Seceratory DARE, New Delhi, Dr. R. C. Srivastava, Hon'ble Vice Chancellor, Dr. Anjani Kumar, Director, ICAR-ATARI, Patna, DR. P. P. Srivastava, Registrar, Shri Shyam Babu Yadav, MLA, Pipra, Shri Krishan Nandan Paswan, MLA, Harisidhi, Shri Sunil Mani Tiwari, MLA, Govindganj |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

#### 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) |
| Mushroom Cultivation                                    | 239                 | 24            | 0                      | 56000            |
| Scientific poultry farming with improved poultry breeds | 125                 | 16            | 250000                 | 190000           |
| Zero Tillage Wheat                                      | 846                 | 28            | 43000                  | 74500            |
| Zero Tillage Rai                                        | 217                 | 11            | 12400                  | 47000            |
| ZT Lentil                                               | 82                  | 9.5           | 25000                  | 45500            |
| Direct Seeded Rice                                      | 157                 | 12.5          | 40000                  | 65000            |

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                       |
| Mushroom Cultivation                                    | No. of famers: 162, No. of Villages: 16 |
| Scientific poultry farming with improved poultry breeds | No. of famers: 73, No. of Villages: 11  |
| Zero Tillage Wheat                                      | No. of famers: 388, No. of Villages: 22 |
| Zero Tillage Rai/Tori/Mustard                           | No. of famers: 131, No. of Villages: 19 |
| ZT Lentil                                               | No. of famers: 98, No. of Villages: 17  |
| Direct Seeded Rice                                      | No. of famers: 92, No. of Villages: 14  |
| Vermi Compost Production                                | No. of famers: 23, No. of Villages: 03  |

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             | Farm Mechanization                                                    |
| Name of the Innovation    | Tractor mounted power operated sprayer                                |
| Details of Innovator      | Shri Vijay Pandey, Vill- Barharwa Kothi, Block- Kotwa, East Champaran |
| Back ground of innovation | Labour Scaracity as well as high cost of spraying                     |
| Technology details        | Tank Capacity: 60 ltr.<br>Tank Material: Polyethylene                 |

|                                                                                   |                                                                                     |                                                                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                   | No. of Nozzle: 4<br>Width of coverage: 1.90 m<br>Pump type: Battery Operated Motors |                                                                                    |
| Practical utility of innovation                                                   | To spray herbicide just after sowing of crop                                        |                                                                                    |
|  |                                                                                     |  |

#### 4.5. Details of entrepreneurship development

|                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrepreneurship development                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                            |
| Name of the enterprise                                                                                                                                                                       | Distillation Unit                                                                                                                                                                                                                                                                                                                          |
| Name & complete address of the entrepreneur                                                                                                                                                  | Anand Kumar<br>Vill- Bakularaha, Block- Piprakothi, Distt- East Champaran<br>Mob: 9470287412                                                                                                                                                                                                                                               |
| Role of KVK with quantitative data support:                                                                                                                                                  | Technical guidance of operation of distillation plant and also provided medicinal plants for 1 acre land.                                                                                                                                                                                                                                  |
| Timeline of the entrepreneurship development                                                                                                                                                 | 2021                                                                                                                                                                                                                                                                                                                                       |
| Technical Components of the Enterprise                                                                                                                                                       | Extraction of oil from medicinal plants                                                                                                                                                                                                                                                                                                    |
| Status of entrepreneur before and after the enterprise                                                                                                                                       | He is a popular cultivator of medicinal plants but he was facing very serious issue of processing of medicinal plants. He had to go about 60-70 kilometers to get his crop processed, so due to this the crop had to be harvested prematurely, due to which he had to suffer a lot of damage as well as high cost of transporting of crop. |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise): | He established their own distillation unit after getting technical guidance and demonstration at KVK, Piprakothi. The unit has the capacity of 500 kg. He processed 40 tonnes of medicinal plants from their unit and gained net profit of 60000.00 rupees till date.                                                                      |
| Horizontal spread of enterprise                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                            |

#### 4.6. Any other initiative taken by the KVK

| S.N. | Initiatives                 | Year | Remark                                                                            |
|------|-----------------------------|------|-----------------------------------------------------------------------------------|
| 1.   | Hatchery Unit               | 2021 | To hatch eggs of Poultry, Duck and Quail for farmers as per university rate       |
| 2.   | Distillation Plant          | 2021 | For extraction of oil from medicinal plants and providing facility to the farmers |
| 3.   | Quail Unit                  | 2021 | For Demonstration and production of quail chicks                                  |
| 4.   | Duck unit                   | 2021 | For Demonstration and production of ducklings                                     |
| 5.   | Implement Shade             | 2021 | To Protect farm implements and equipments                                         |
| 6.   | Extension of ATAL Sabhagaar | 2021 | To organize Kisan Gosthi, Kisan Sammelan program                                  |
| 7.   | HDPE compost Unit           | 2021 | To produce compost at IFS                                                         |

### 5. LINKAGES

#### 5.1. Functional linkage with different organizations

| Name of organization                                                                     | Nature of linkage                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DRPCA, Pusa, Samastipur</b>                                                           | <ul style="list-style-type: none"> <li>• Developmental and technical support by training and extension.</li> </ul>                                                                                                                                                                                                                                 |
| <b>District Agriculture Department</b>                                                   | <ul style="list-style-type: none"> <li>• Identification of training need</li> <li>• Joint implementation of training programme</li> <li>• Diagnostic team visit</li> <li>• Identification of target group</li> <li>• Farmers participatory programme of quality seed production at district level</li> <li>• Field day and field visits</li> </ul> |
| <b>ATMA, East Champaran</b>                                                              | <ul style="list-style-type: none"> <li>• Sponsored training programme and joint implementation of development programme</li> <li>• Preparation of SREP</li> <li>• Identification of target groups</li> <li>• Interaction with farmers and scientists</li> <li>• Farmers field school (FFS)</li> <li>• DESAI</li> </ul>                             |
| <b>District Horticulture Department, East Champaran</b>                                  | <ul style="list-style-type: none"> <li>• Coordination and cooperation of extension activities in the district</li> <li>• Training and awareness programme on agro-horticulture system</li> </ul>                                                                                                                                                   |
| <b>Assistant Director of Sugarcane, Govt. of Bihar</b>                                   | <ul style="list-style-type: none"> <li>• Seed Production programme of Sugarcane</li> </ul>                                                                                                                                                                                                                                                         |
| <b>JEEVIKA</b>                                                                           | <ul style="list-style-type: none"> <li>• Training on vocational courses</li> </ul>                                                                                                                                                                                                                                                                 |
| <b>DFO, East Champaran</b>                                                               | <ul style="list-style-type: none"> <li>• Farmers Training</li> <li>• Awareness programme on eco-friendly environment</li> <li>• Plantation of different economy based trees at district level</li> </ul>                                                                                                                                           |
| <b>NGO-CHETNA, ASHISH, Raxaul, IDEA, Sehgal Foundation, Kaushalya Foundation, EPICOR</b> | <ul style="list-style-type: none"> <li>• Coordination and cooperation of extension activities in the district</li> </ul>                                                                                                                                                                                                                           |
| <b>NABARD, Motihari</b>                                                                  | <ul style="list-style-type: none"> <li>• Formation of Kisan Club and FPO</li> <li>• Training of farmers</li> </ul>                                                                                                                                                                                                                                 |
| <b>ICAR, New Delhi</b>                                                                   | <ul style="list-style-type: none"> <li>• Funding and Technical inputs regarding trainings</li> </ul>                                                                                                                                                                                                                                               |
| <b>ICAR-RCER, Patna</b>                                                                  | <ul style="list-style-type: none"> <li>• Coordination and cooperation of extension activities in the district</li> </ul>                                                                                                                                                                                                                           |
| <b>ICAR-IGFRI, Jhansi</b>                                                                | <ul style="list-style-type: none"> <li>• Training of farmers on Fodder crops and it's management</li> </ul>                                                                                                                                                                                                                                        |
| <b>International Traceability System Ltd., New Delhi</b>                                 | <ul style="list-style-type: none"> <li>• Training of farmers</li> </ul>                                                                                                                                                                                                                                                                            |
| <b>CSISA, CIMMYT</b>                                                                     | <ul style="list-style-type: none"> <li>• Demonstrations on Resource Conservation Technologies (RCTs) i.e. Zero Tillage, Direct Seeded Rice (DSR) and Laser Land Leveller etc.</li> <li>• Field Crop Experiments</li> <li>• Survey work (60 villages of East Champaran)</li> </ul>                                                                  |
| <b>IFFCO</b>                                                                             | <ul style="list-style-type: none"> <li>• Training/Kisan Gosthi/ Kisan Mela/ Demonstration</li> </ul>                                                                                                                                                                                                                                               |
| <b>NSC/TDC</b>                                                                           | <ul style="list-style-type: none"> <li>• Farmers participatory seed production</li> </ul>                                                                                                                                                                                                                                                          |
| <b>ICAR-NRCIF</b>                                                                        | <ul style="list-style-type: none"> <li>• Research and Extension activities</li> </ul>                                                                                                                                                                                                                                                              |
| <b>DRDA, East Champaran</b>                                                              | <ul style="list-style-type: none"> <li>• Sponsored Training Programme and Joint Implementation of developmental programme</li> </ul>                                                                                                                                                                                                               |
| <b>KRIBHCO</b>                                                                           | <ul style="list-style-type: none"> <li>• Training/Kisan Gosthi/ Demonstration</li> </ul>                                                                                                                                                                                                                                                           |
| <b>Mahindra Samridhi</b>                                                                 | <ul style="list-style-type: none"> <li>• Training/Kisan Gosthi/ Demonstration</li> </ul>                                                                                                                                                                                                                                                           |
| <b>IISR, Lucknow</b>                                                                     | <ul style="list-style-type: none"> <li>• Technical training and Transfer of technology (Jaggery processing)</li> </ul>                                                                                                                                                                                                                             |
| <b>IGFRI, Jhansi</b>                                                                     | <ul style="list-style-type: none"> <li>• Kisan Gosthi/ Demonstration of fodder crops</li> </ul>                                                                                                                                                                                                                                                    |
| <b>National Coconut Board, Regional Centre, Patna</b>                                    | <ul style="list-style-type: none"> <li>• Training/Kisan Gosthi/ establishment of demonstration unit of Coconut</li> </ul>                                                                                                                                                                                                                          |
| <b>CBTC, Assam</b>                                                                       | <ul style="list-style-type: none"> <li>• Providing different kind of Bamboo varieties</li> </ul>                                                                                                                                                                                                                                                   |

|                                                         |                                                                                                                                             |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         | <ul style="list-style-type: none"> <li>Assist in training of bamboo treatment and Establishment of high tech bamboo nursery unit</li> </ul> |
| <b>CCRI, Nagpur</b>                                     | <ul style="list-style-type: none"> <li>Assist in the establishment of Lemon Demonstration unit</li> </ul>                                   |
| <b>National Research Center for Litchi, Muzaffarpur</b> | <ul style="list-style-type: none"> <li>Training/Kisan Gosthi</li> </ul>                                                                     |
| <b>National Fertilizer Limited, Muzaffarpur</b>         | <ul style="list-style-type: none"> <li>Training/Kisan Gosthi/ Kisan Mela/ Demonstration</li> </ul>                                          |

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

(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.) |
|------------------------------|---------------------------------------------|---------------------------|---------------------------------------|--------------|
| Integrated Pest Management   | To impart Training for pesticide dealers    | 2021                      | Plant Protection Office, Motihari     |              |
| PashuAarogya Mela            | Awareness and training on livestock rearing | 2021                      | NDRI, Karnal, RCER Patna, BASU, Patna |              |
| Kisan Sahkaar Sameelan       | Exposure visits                             | 2021                      | ATMA, Motihari                        |              |

## 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/br eed                     | Produce   | Qty.      | Cost of inputs | Gross income |            |
| 1.      | Mushroom Production                         | 2017          | 12            |                                    |           |           |                |              | Functional |
| 2.      | Polyhouse                                   | 2019          | 1000          |                                    |           |           |                |              | Functional |
| 3.      | Shade Net House                             | 2019          | 500           |                                    |           |           |                |              | Functional |
| 4.      | Drainage cum Groundwater recharge structure | 2019          | 2             | -                                  | -         | -         | -              | -            | Functional |
| 5.      | Jaggery Processing Unit                     | 2018          | 60            |                                    | 20 q      | 20 q      |                |              | Functional |
| 6.      | Bamboo Treatment Unit                       | 2019          | 45            |                                    |           |           |                |              | Functional |
| 7.      | Food Processing Unit                        | 2019          | 30            |                                    |           |           |                |              | Functional |
| 8.      | Hatchery Unit                               | 2021          | -             | Vanraja, Kadaknath, Khaki Cambell, | 1252 Nos. | 1252 Nos. |                | 31300        | Functional |

|     |                    |      |      |                 |       |       |  |      |            |
|-----|--------------------|------|------|-----------------|-------|-------|--|------|------------|
|     |                    |      |      | Quail           |       |       |  |      |            |
| 9.  | Vermi Compost Unit | 2018 | 20   |                 |       |       |  |      | Functional |
| 10. | Lemon Orcahrd      | 2018 | 2000 | Mausami, Orange | 50 kg | 50 kg |  | 2500 | Functional |
|     | 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 |         |
|                  |                |                 |           |                       |                 |         |                |              |         |
|                  |                |                 |           |                       |                 |         |                |              |         |

#### 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.      |                     |           |                |              |         |
|         |                     |           |                |              |         |

#### 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.     |                                      |                       |                 |      |                |              |         |
| 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) |
|------------|------------------------|----------------------------|--------------------------------|
| Jan to Dec | 35                     | 120                        | NA                             |
|            |                        |                            |                                |
| Total :    | 35                     | 120                        |                                |

(For whole of the year)

#### 6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staffquarters:

| Type of quarter         | No. | Remarks |
|-------------------------|-----|---------|
| Senior Scientist & Head | 01  |         |
| T-6                     | 02  |         |
| Farm Manager            | 01  |         |
| Supporting staff        | 02  |         |

Date of completion:

Occupancy details:

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

|  |  |
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## 7. FINANCIAL PERFORMANCE

### 7.1.Details of KVK Bank accounts

| Bank account      | Name of the bank | Location  | Account Number  |
|-------------------|------------------|-----------|-----------------|
| Main Account      | Bank of India    | Jeebdhara | 444310100008248 |
| Revolving Account | Bank of India    | Jeebdhara | 444310100008247 |
| Seed Hub          | Bank of India    | Jeebdhara | 444310110000089 |
| ARYA Account      | Bank of India    | Jeebdhara | 444310110010216 |

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

| Item                | Released by ICAR |           | Expenditure |           | Unspent balance as on - |
|---------------------|------------------|-----------|-------------|-----------|-------------------------|
|                     | Kharif           | Rabi      | Kharif      | Rabi      |                         |
| Rape Seed / Mustard | 00               | 120000.00 | 00          | 268000.00 |                         |
|                     |                  |           |             |           |                         |

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

| Item   | Released by ICAR |          | Expenditure |          | Unspent balance as on 1 <sup>st</sup> April 2013 |
|--------|------------------|----------|-------------|----------|--------------------------------------------------|
|        | Kharif           | Rabi     | Kharif      | Rabi     |                                                  |
| Lentil | 00               | 88652.00 | 00          | 84990.00 |                                                  |
|        |                  |          |             |          |                                                  |

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

| Sl. No.                           | Particulars                                                                                                                              | Sanctioned | Released | Expenditure |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|
| <b>A. Recurring Contingencies</b> |                                                                                                                                          |            |          |             |
| 1                                 | Pay & Allowances                                                                                                                         |            |          |             |
| 2                                 | Traveling allowances                                                                                                                     | 54000.00   |          | 47496.00    |
| 3                                 | HRD                                                                                                                                      | 30000.00   |          | 26540.00    |
| 4                                 | Contingencies                                                                                                                            |            |          |             |
| A                                 | Stationery , telephone, postage, electric bill and other expenditure on office running including library maintenance and adding of books | 500000.00  |          | 403832.00   |
| B                                 | Training of farmers                                                                                                                      | 200000.00  |          | 79366.00    |
| C                                 | Training materials (posters, charts, demonstration material including chemicals etc. required for conducting the training)               |            |          |             |
| D                                 | Training of extension functionaries                                                                                                      |            |          |             |
| E                                 | Training of Rural Youth                                                                                                                  |            |          |             |
| F                                 | Front line demonstration other than Oilseeds & Pulses                                                                                    | 100000.00  |          | 74509.00    |
| G                                 | On farm testing (on need based, location specific and newly generated information in the major production systems of the area)           | 75000.00   |          | 34500.00    |
| H                                 | Soil & Water Testing Lab                                                                                                                 | 00.00      |          | 00.00       |
| I                                 | Maintenance of building                                                                                                                  | 50000.00   |          | 00.00       |
| J                                 | Extension activities/Exhibition, Kisan Mela etc.                                                                                         | 50000.00   |          | 6300.00     |
| K                                 | Swachhta Expenditure                                                                                                                     | 19486.00   |          | 10000.00    |

|                                |  |                   |                   |                  |
|--------------------------------|--|-------------------|-------------------|------------------|
| <b>TOTAL (A)</b>               |  | <b>1078486.00</b> | <b>1004484.00</b> | <b>682543.00</b> |
| B. Non-Recurring Contingencies |  |                   |                   |                  |
| 1                              |  |                   |                   |                  |
| 2                              |  |                   |                   |                  |
| 3                              |  |                   |                   |                  |
| 4                              |  |                   |                   |                  |
| <b>TOTAL (B)</b>               |  |                   |                   |                  |
| C. REVOLVING FUND              |  |                   |                   |                  |
| <b>GRAND TOTAL (A+B+C)</b>     |  |                   |                   |                  |

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

| Year | Opening balance as on 1 <sup>st</sup> April | Income during the year | Expenditure during the year | Net balance in hand as on 31 <sup>st</sup> December 2021 of each year (Kind + cash) |
|------|---------------------------------------------|------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| 2019 | 10.92                                       | 2.82                   | 9.87                        | 6.58                                                                                |
| 2020 | 6.58                                        | 7.80                   | 11.49                       | 8.28                                                                                |
| 2021 | <b>8.28</b>                                 | <b>21.79</b>           | <b>18.62</b>                | <b>11.45</b>                                                                        |

7.6. (i) Number of SHGs formed by KVKs :07

(ii) **Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities:** Trainings on bee keeping, mushroom production, poultry farming, fish farming, goat farming, processing and value addition, organic vegetable production, quality seed production, micro irrigation, modern farm machinery and equipments, rural groundwater structures, Awareness of agromet advisory.

(iii) **Details of marketing channels created for the SHGs:** Through FPOs, PACS, and NGOs.

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 |
|----------------------------------------------------|--------------------|-----------------|----------------------|-----------|-----------|
| Training program on bamboo Dastkaar and handicraft | 01                 | Rabi            |                      | Y         |           |
| PashuAarogya Mela                                  | 01                 | Rabi            |                      |           | Y         |
| District Level Kharif Workshop                     | 01                 | Kharif          |                      | Y         |           |
| Kisan Gosthi                                       | 01                 | Kharif          |                      | Y         |           |
| District Level Rabi Workshop                       | 04                 | Rabi            |                      | Y         |           |
| Training on beekeeping                             | 01                 | Kharif          |                      | Y         |           |
| Farmers Scientist Interaction                      | 03                 | Rabi            |                      | Y         |           |
| Kisan Karyasala                                    | 01                 | Rabi            |                      | Y         |           |
| Exposure visit                                     | 02                 | Kharif and Rabi |                      | Y         |           |

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) |
|---------------------|--------|------------------|-----------------------|------------------|--------------------------------------------|
| False Smut          | Paddy  | September        |                       |                  | Spray of Propiconazole stage               |
| Late Blight         | Potato | December         |                       |                  | Spray of Mancozeb fungicide                |
| Die-back            | Mango  | August           |                       |                  | Spray of copper oxychloride fungicide      |

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) |
|---------------------|-----------------------|------------------|-------------------------------------|------------------------------|-------------------------------------------|
| HS and BQ           | Cattle, Buffalo, Goat | July             |                                     |                              | Timely vaccination of HS and BQ           |
| FMD                 | Cattle, Buffalo, Goat | December         |                                     |                              | Timely vaccination of FMD                 |

#### 9.1. Nehru YuvaKendra(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/ SMSPortal)

| Type of message      | No. of messages | No. of farmers covered |
|----------------------|-----------------|------------------------|
| Crop                 |                 |                        |
| Livestock            |                 |                        |
| Fishery              |                 |                        |
| Weather              |                 |                        |
| Marketing            |                 |                        |
| Awareness            |                 |                        |
| Training information |                 |                        |
| Other                |                 |                        |
| <b>Total</b>         |                 |                        |

#### 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.      | Agronomy           | 651               | 138                    | 11824          |
| 2.      | Home Science       | 432               | 112                    |                |
| 3.      | Horticulture       | 444               | 135                    |                |
| 4.      | Veterinary Science | 672               | 210                    |                |



|    |                                    |     |     |
|----|------------------------------------|-----|-----|
| 5. | Agri. Engg. (Soil and Water Engg.) | 487 | 129 |
| 6. | Agro-meteorology                   | 519 | 197 |

#### 9.6. a. Observation of SwachhaPakhwara

| Date/<br>Duration of<br>Observation | Activities undertaken                                                                                                                                                                                                                                                                                                                                                                           | No. of Participants |         |        |       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|--------|-------|
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                 | Staffs              | Farmers | Others | Total |
| 16.12.2021                          | Display of banner at prominent places, taking Swachhata pledge, Stock taking & briefing of the activities to be organized during the Pakhwada, plantation of trees.                                                                                                                                                                                                                             | 15                  | 417     | 01     | 433   |
| 17.12.2021                          | Basic maintenance: Stock taking on digitization of office records/ e-office implementation. Cleanliness drive including cleaning of offices, corridors and premises.<br>Review of progress on weeding out old records, disposing of old and obsolete furniture's, junk materials and white washing/painting.                                                                                    | 04                  | 38      | 01     | 43    |
| 18.12.2021                          | Sanitation and SWM<br>Cleanliness and sanitation drive in the villages adopted under the MeraGaonMeraGaurav Programme and/or other schemes by ICAR Institutes/KVKs involving village community. Reviewing the progress made under ongoing Swachhtaactivities including implementation of Swachhta Action Plan (SAP) & providing at the spot solutions.                                          | 06                  | 38      | 00     | 44    |
| 19.12.2021                          | Sanitation and SWM<br>Cleanliness and sanitation drive within campuses and surroundings including residential colonies, common market places. Stock taking of biodegradable and non-biodegradable waste disposal status and providing on the spot solutions.                                                                                                                                    | 15                  | 40      | 00     | 55    |
| 20.12.2021                          | Stock taking of waste management & other activities including utilization of organic wastes/ generation of wealth from waste, polythene free status, composting of kitchen and home waste materials. Promoting clean & green technologies and organic farming practices in kitchen gardens of residential colonies andat least one nearby village and proving on the spot technology solutions. | 02                  | 32      | 00     | 34    |
| 21.12.2021                          | Campaign on cleaning of sewerage & water lines, awareness on recycling of waste water, water harvesting for agriculture/ horticulture application/kitchen gardens in residential colonies/ 1-2 nearby villages.                                                                                                                                                                                 | 05                  | 36      | 00     | 41    |
| 22.12.2021                          | Organising Workshops, exhibitions, technology demonstrations on agricultural technologies for conversion of waste to wealth, safe disposal of all kinds of wastes. Debate on Swachhata at the DARE/ICAR establishments, Seminars, awareness camps, rallies, street plays and expert talks                                                                                                       | 02                  | 39      | 00     | 41    |
| 23.12.2021                          | Celebration of <u>Special Day</u> - KisanDiwas (Farmer's Day)-23 December inviting farmers. Experience sharing on Swachhata initiatives by farmers and civil                                                                                                                                                                                                                                    | 04                  | 40      | 00     | 44    |

|            |                                                                                                                                                                                                                                                                                                                                                                             |    |     |    |     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|----|-----|
|            | society officials. Felicitating farmers/ civil society officials for exemplary initiatives on Swachhata.                                                                                                                                                                                                                                                                    |    |     |    |     |
| 24.12.2021 | Swachhta Awareness at local level (organizing Sanitation Campaigns involving and with the help of the farmers, farm women and village youth in new villages not adopted under any scheme by Institutes/ establishments.                                                                                                                                                     | 02 | 34  | 02 | 38  |
| 25.12.2021 | Cleaning of public places, community market places and/or nearby tourist/selected spots.                                                                                                                                                                                                                                                                                    | 15 | 716 | 10 | 741 |
| 26.12.2021 | Fostering healthy competition: Organising Webinar, VC meetings, competition and rewarding best offices/ residential areas/ campuses on cleanliness. Quiz, assay & drawing competitions for school children, village youth.                                                                                                                                                  | 03 | 22  | 01 | 26  |
| 27.12.2021 | Awareness on waste management & other activities including utilization of organic wastes/ generation of wealth from waste, polythene free status. Curb the use of Single Use plastic (SUP) and discourage the use of plastic in the office. Composting of kitchen and home waste materials, promoting clean & green technologies and organic farming practices in new area. | 02 | 18  | 00 | 20  |
| 28.12.2021 | Campaign on cleaning of sewerage & water lines, awareness on recycling of waste water, water harvesting for agriculture/ horticulture application/kitchen gardens in residential colonies. Outside campuses/ nearby villages with the involvement of local/ village communities.                                                                                            | 05 | 28  | 00 | 33  |
| 29.12.2021 | Visits of community waste disposal sites/ compost pits, cleaning and creating awareness on treatment & safe disposal of bio-degradable/ non-bio-degradable wastes by involving civil/ farming community.                                                                                                                                                                    | 05 | 73  | 00 | 78  |
| 30.12.2021 | Involvement of VIP/VVIPs (Union Ministers, MPS and other dignitaries) in the Swachhta activities, Involvement of print and electronic media may be ensured so that adequate publicity is given to the Swachhta Pakhwada.                                                                                                                                                    | 04 | 33  | 00 | 37  |
| 31.12.2021 | Organization of press conference for highlighting the activities of Swachh Bharat Pakhwada by involving all stake holders including farmers/ VIPs/ press and electronic media.                                                                                                                                                                                              | 03 | 40  | 00 | 43  |

b. Details of Swachhta activities with expenditure

| Activities                                                                             | Number | Expenditure (in Rs.) |
|----------------------------------------------------------------------------------------|--------|----------------------|
| 1. Digitization of office records/ e-office                                            | 07     | 9500.00              |
| 2. Basic maintenance                                                                   | 18     |                      |
| 3. Sanitation and SBM                                                                  | 13     |                      |
| 4. Cleaning and beautification of surrounding areas                                    | 21     |                      |
| 5. Vermicomposting/ Composting of biodegradable waste management & other activities on | 14     |                      |

|                                                                                                         |            |                |
|---------------------------------------------------------------------------------------------------------|------------|----------------|
| generate of wealth for waste                                                                            |            |                |
| 6. Used water for agriculture/ horticulture application                                                 | 17         |                |
| 7. Swachhta Awareness at local level                                                                    | 26         |                |
| 8. Swachhta Workshops                                                                                   | 01         |                |
| 9. Swachhta Pledge                                                                                      | 02         |                |
| 10. Display and Banner                                                                                  | 16         |                |
| 11. Foster healthy competition                                                                          | 04         |                |
| 12. Involvement of print and electronic media                                                           | 03         |                |
| 13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 03         |                |
| 14. No. of Staff members involved in the activities                                                     | 14         |                |
| 15. No of VIP/VVIPs involved in the activities                                                          | 07         |                |
| 16. Any other specific activity (in details)                                                            | 0          |                |
| <b>Total</b>                                                                                            | <b>166</b> | <b>9500.00</b> |

### 9.7. Observation of National Science day

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

### 9.8. Programme with SeemaSurakshaBal/ 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.) |  |  |  |  |  |
| MLAs Attended the programme                            |                    |  |  |  |  |  |
| Chairman Zila Panchayat                                |                    |  |  |  |  |  |
| Distt. Collector/ DM                                   |                    |  |  |  |  |  |
| Bank Officials                                         |                    |  |  |  |  |  |
| Farmers                                                |                    |  |  |  |  |  |
| Govt. Officials, PRI members etc.                      |                    |  |  |  |  |  |
| Total                                                  |                    |  |  |  |  |  |
| Coverage by Door Darshan (Yes/No)                      |                    |  |  |  |  |  |
| Coverage by other channels (Number)                    |                    |  |  |  |  |  |

### 9.11. Details of Swachhta Hi Sewaprogramme organized

| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---------|----------|--------------------------|---------------------|-------------|--------------------|
|         |          |                          |                     |             |                    |

### 9.12. Details of MahilaKisan Divas programme organized

| Sl. No. | Activity                               | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---------|----------------------------------------|--------------------------|---------------------|-------------|--------------------|
| 01      | Training program on Drudgery Reduction | 01                       | 22                  | 0           | 0                  |

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

### 9.15. Resource Generation:

| Sl. No. | Name of the programme | Purpose of the programme                             | Sources of fund | Amount (Rs. lakhs) | Infrastructure created |
|---------|-----------------------|------------------------------------------------------|-----------------|--------------------|------------------------|
| 1.      | INM                   | Training programs                                    |                 | 24.0               |                        |
| 2.      | CRA                   | Demonstration, Exposure visits and training programs | Govt. of Bihar  | 5.12               |                        |
| 3.      | NHIPM                 | Training programs                                    |                 | 3.4                |                        |
| 4.      | Meghdoot              |                                                      | Govt. of Bihar  | 3.70               |                        |
| 5.      | Pashu Arogya Mela     | Awariness, KishanGosthi and Exhibition               | ICAR RCER-Patna | 2.0                |                        |
| 6.      | Pashu Arogya Mela     | Awariness, KishanGosthi and Exhibition               | MGIFRI          | 2.50               |                        |
| 7.      | Pashu Arogya Mela     | Awariness, KishanGosthi and Exhibition               | BAU PATNA       | 3.0                |                        |
| 8.      | Pashu Arogya Mela     | Awariness, KishanGosthiand Exhibition                | NDRI KARNAL     | 5.0                |                        |
| 9.      | Pashu Arogya Mela     | Awariness, KishanGosthi and Exhibition               | MOTHER DAIRY    | 0.49               |                        |
| 10.     | Pashu Arogya Mela     | Awariness, KishanGosthi                              | NRC LITCHI      | 0.25               |                        |

|              |                   |                                        |                              |              |  |
|--------------|-------------------|----------------------------------------|------------------------------|--------------|--|
|              |                   | and Exhibition                         |                              |              |  |
| 11.          | Pashu Arogya Mela | Awariness, KishanGosthi and Exhibition | Chambal Fertilizer, Motihari | 0.10         |  |
| <b>Total</b> |                   |                                        |                              | <b>49.56</b> |  |

#### 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 |
|-----------------------|------------------------------------------------------|-------------------------------|
| 03.04.2021            | IMD                                                  | Functional                    |

#### 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)

a) Year: 2020-21

b) Introduction / General Information:

| Experiment   | Title                                                                                | Objective                                                                                                     | Treatment details                                                                                                                                                                                                                                                                                                                                                              | Date of sowing | Replication | Result with photographs                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kharif       |                                                                                      |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |                |             |                                                                                                                                                                                                                                                    |
| Experiment 1 | Direct seeded rice with soil mulch and its effect on cropping system intensification | To use stale bed technique for efficient crop establishment under DSR and thereby increasing the productivity | 1. DSR with vattarsowing fb ZT wheat<br>2. DSR with vattarsowing fb ZT wheat fb mungbean<br>3. Transplanted rice (nursery sowing on the day DSR is sown) fb ZT wheat fb mungbean<br>4. Transplanted rice (nursery sowing on the day DSR is sown) fb ZT wheat<br>5. Farmer's practice (nursery sowing and transplanting time as per farmers' standard practice/timing) fb wheat | 02-10/06/2020  | 10          | DSR with vattarsowing fb ZT wheat fb mungbean was found most effective, which recorded maximum yield and low cost of cultivation. This treatment also helps to enhance the soil quality in terms of physical, chemical, and biological properties. |
| Experiment 2 | Performance of conventional till DSR with and without pre-sowing irrigation          | To use stale bed technique for efficient crop establishment under DSR and thereby                             | <b>Set-I</b><br>T1 Pre-sowing irrigation (vattar) fb fine seed bed preparation fb one irrigation 15 days after sowing                                                                                                                                                                                                                                                          | 02-08/06/2020  | 10          | Treatment option Pre-sowing irrigation (vattar) fb fine seed bed preparation fb one irrigation 15 days after sowing was recorded                                                                                                                   |

|              |                                                                                                |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |    |                                                                                                                                                                                                                                                                   |
|--------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                                                                                                | increasing the productivity                                                                                | <p>T2 Pre-sowing irrigation fb fine seed bed preparation fb one irrigation 3 weeks after sowing</p> <p>T3 Manual transplanting as standard check</p> <p><b>Set-II</b></p> <p>T1 Without pre-sowing irrigation fb fine seed bed preparation and sowing fb irrigation immediately after sowing</p> <p>T2 Without pre-sowing irrigation fb fine seed bed preparation and sowing fb irrigation 15 days after sowing</p> <p>T3 Manual transplanting as standard check Puddled</p> |               |    | high yield (68.25 q/ha) of hybrid rice with maximum B:C ratio                                                                                                                                                                                                     |
| Experiment 3 | Weed management in direct seeded rice dominated <i>Cyperus rotundus</i> based mixed weed flora | To develop cost effective weed management strategy to improve the productivity and profitability under DSR | <p>T1 Two manual weedings (15-20 DAS and 40-45 DAS)</p> <p>T2 Bispyribac-pyrazosulfuron at 20+20 g a.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS</p> <p>T3 Bispyribac + pyrazosulfuron at 20+20 g a.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS fb one manual weeding at 40-45 DAS</p> <p>T4 Bispyribac 20 g a.i./ha (200 ml/ha or 80 ml/acre) 15-25 DAS fb one manual weeding at 40-45 DAS</p>                                                      | 02-07/06/2020 | 10 | Weed management with Bispyribac + pyrazosulfuron at 20+20 g a.i./ha (200 ml + 200 g/ha or 80 ml +80 g/acre) 15-25 DAS fb one manual weeding at 40-45 DAS was found most effective treatment, which reduce weed infestation in paddy crop and resulted high yield. |
| Rabi         |                                                                                                |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |    |                                                                                                                                                                                                                                                                   |
| Experiment 1 | Performance of short duration (SDVs) and long duration varieties (LDVs) under different        | To understand the performance of varieties of different duration both under late sown conditions.          | <ul style="list-style-type: none"> <li>• ZT Wheat sowing (1st to 10th Nov)</li> <li>• ZT Wheat sowing (11th to 20th Nov)</li> <li>• ZT Wheat sowing (21st to 30th Nov)</li> <li>• ZT Wheat sowing (1st to</li> </ul>                                                                                                                                                                                                                                                         | 09-24/11/2020 | 10 | Wheat sown between 01/11 to 10/11 with Zero tillage technique recorded maximum yield.                                                                                                                                                                             |

|              |                                                                                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                           |               |    |                                                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | sowing schedules across ecologies                                                                                                                                      |                                                                                                                                                                                     | 15th Dec)<br>• ZT Wheat sowing (16th to 31st Dec)                                                                                                                                                                                                                                                                                         |               |    |                                                                                                                                                                                            |
| Experiment 2 | Assessing the role of additional irrigation during terminal heat stress period during grain filling stage to beat the heat stress and its effect on wheat productivity | 1. To quantify the gains in wheat productivity from additional irrigation given at dough stage of wheat.<br>2. To understand the impact of last irrigation on the lodging of wheat. | <b>Set 1- Zero tillage</b><br>1. Without additional irrigation (FP)<br>2* With additional irrigation during terminal heat stress period/milking stage in March<br><b>Set 2- Conventional Tillage</b><br>1. Without additional irrigation (FP)<br>2*. With additional irrigation during terminal heat stress period/milking stage in March | 09-24/11/2020 | 10 | Wheat sown in ZT condition and with additional irrigation during terminal heat stress period/milking stage in March was found very significant in terms of yield along with high BC ratio. |

a) Year: 2021-22

b) Introduction / General Information:

| Experiment              | Title                                                                                                    | Objective | Treatment details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date of sowing | Replication | Result with photographs                                                                                                                                                                             |
|-------------------------|----------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Kharif (2021-22)</b> |                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |             |                                                                                                                                                                                                     |
| Experiment 1            | Direct seeded rice under Vattar conditions (after pre-sowing irrigation or equivalent pre-monsoon rains) |           | T1 - DSR with pre-sowing irrigation followed by post sowing irrigation at 15 -21 days after sowing.<br>T2 - DSR in dry soil followed by irrigation on the same day.<br>T3 - Puddled transplanted rice (CHECK)                                                                                                                                                                                                                                                                                                                                                                                                              |                | 10          | Not performed                                                                                                                                                                                       |
| Experiment 2            | Weed management in direct seeded rice                                                                    |           | T1 - Two manual weeding at 15-20 and at 30-35 days after sowing (DAS)<br>T2 - Tank mix of Bispyribac + pyrazosulfuron at 20+20 gm a.i./ha at 15-25 DAS + One spot hand weeding as needed<br>T3 - Tank mix of Vivaya (premix combination of Penoxulam + cyhalofop ) + Almix at 2-4 leaf stage at 15-25 DAS + one spot hand weeding<br>T4 - Premix combination of Triafamone + ethoxysulfuron (Council active, 60 g ai/ha) at 2-3 leaf stage at 15-20 DAS + one spot hand weeding<br>T5 - Tank mix of fenoxaprop (Ricestar, 90 gai/ha) + ethoxysulfuron (15 g ai/ha) at 2-4 leaf stage at 15-25 DAS + one spot hand weeding. | 11-14/06/2021  | 10          | Weed management with tank mix of Bispyribac + pyrazosulfuron at 20+20 gm a.i./ha at 15-25 DAS + One spot hand weeding was found very good performance, which reduces weed infestation in rice crop. |
| Experiment 3            | Effect of rice crop establishment methods on the                                                         |           | T1. Vattar Direct seeded rice followed by zero tillage wheat.<br>T2. Transplanted rice followed by zero tillage wheat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | 5           | Trial is in progress                                                                                                                                                                                |

|                       |                                                                                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |    |                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | growth and yield of wheat                                                                                                                                              |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |    |                                                                                                                                                                                                                                  |
| Experiment 4          | Reducing seed rate in rice through Rice Nursery Enterprise<br>Area: half acre nursery                                                                                  |                                                                                                                                                                                     | T1: 7.5-acre area transplanted from 0.5 acre of rice nursery (12 kg seed rate per acre, 3 seedlings per hill with spacing of 20 cm x 15 cm).<br>T 2: 15-acre area transplanted from 0.5 acre of rice nursery (6 kg seed rate per acre, 2 seedlings per hill with spacing of 20 cm x 15 cm).<br>T 3: 30-acre area transplanted from 0.5 acre of rice nursery (3 kg seed rate per acre, 1 seedling per hill with spacing of 20 cm x 15 cm). | 18-21/06/2021                                                      | 5  | Sowing of 15-acre area transplanted from 0.5 acre of rice nursery (6 kg seed rate per acre, 2 seedlings per hill with spacing of 20 cm x 15 cm) was recorded low cost of cultivation and high yield along with maximum BC ratio. |
| <b>Rabi (2021-22)</b> |                                                                                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |    |                                                                                                                                                                                                                                  |
| <b>Exp. 1</b>         | Performance of short duration (SDVs) and long duration varieties (LDVs) under different sowing schedules across ecologies.                                             | To understand the performance of varieties of different duration both under late sown conditions.                                                                                   | Zero-Till drill wheat sowing                                                                                                                                                                                                                                                                                                                                                                                                              | 1- 10 Nov<br>11- 20 Nov<br>21- 30 Nov<br>1 - 15 Dec<br>16 - 31 Dec | 10 | Trial in progress                                                                                                                                                                                                                |
| <b>Exp. 2</b>         | Assessing the role of additional irrigation during terminal heat stress period during grain filling stage to beat the heat stress and its effect on wheat productivity | 1. To quantify the gains in wheat productivity from additional irrigation given at dough stage of wheat.<br>2. To understand the impact of last irrigation on the lodging of wheat. | Set 1- Zero tillage<br>1. Without additional irrigation (FP)<br>2* With additional irrigation during terminal heat stress period/milking stage in March<br>Set 2- Conventional Tillage<br>1. Without additional irrigation (FP)<br>2*. With additional irrigation during terminal heat stress period/milking stage in March                                                                                                               | 1- 15 Nov                                                          | 10 | Trial in progress                                                                                                                                                                                                                |

## 11. Details of TSP

### a. Achievements of physical output under TSP during 2021

| Sl. | Activities          | Physical Achievement   |                      |
|-----|---------------------|------------------------|----------------------|
|     |                     | No. of Trainings/Demos | No. of beneficiaries |
| 1)  | Trainings           |                        |                      |
| 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                      | 78                   |
| 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.) |  |

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

(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                                                   |
|---------|---------------------------------------------------------------------------------|----------------------|------------|-----------------------------------------------------------|
| 1.      | Pandit DeenDayal Upadhyay Rashtriya Krishi Vigyan ProtshahanPuraskar (National) | ICAR, New Delhi      | 1000000.00 | Infrastructure development and capacity building of staff |

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 |
|-----|-------------------------|--------------------|----------------------------------------------------------------|-------------|--------------|---------|-----------------|----------------------|
| 1.  | Abhinav Kisan puraskaar | Shri Ajay Deo      | Vill + Po. - Baragovind, Block- Chakia, Distt.- East Champaran | 9931437195  | 309218885117 | 5000.00 | Organic Farming | DRPCA, Pusa          |

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

- Visit of Hon'ble Vice President of India, Hon'ble Governor, Govt. of Bihar, Hon'ble Chief Minister, Bihar in second convocation program of DRPCA, Pusa.
- More than 1.00 Lakh views of Scientific cultivation Bamboo on Youtube.
- KVK, Piprakothi got Best Poster Award in Fifth International Congress held at PJTSAU, Hyderabad from 23-27 Nov 2021.
- Mr. Mayank Sharma, Vill- Jhakra had 3 ha Waste land which was converted into cultivated land through Bamboo plantation under the guidance of KVK, Piprakothi.
- Rajendra Ganna -1 propagated over 8 ha area by providing high quality seed.
- DBW- 187 & DBW-222 variety of wheat introduced first time in the district.

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.      | Fisheries                       | 0.8                 | 62 kg                       | 3000                                       | 9600                                   | 21                                   | 30                                   |
| 2.      | Poultry+Duck                    | 0.001               | 2019 eggs and 37.6 kg meat  | 15600                                      | 27710                                  | 28                                   | 60                                   |
| 3.      | Dairy                           | 0.002               | 6371.5                      | 107000                                     | 216015                                 | 5                                    | 22                                   |
| 4.      | Goatery                         | 0.001               | 3 Doe, 1 buck, 3 kids       | 6880                                       | 18000                                  | 15                                   | 36                                   |
| 5.      | Fruit on bund                   | 0.001               | 75kg                        | 600                                        | 1125                                   | 17                                   | 32                                   |
| 6.      | Vegetable                       | 0.001               | 60kg                        | 400                                        | 900                                    | 15                                   | 33                                   |

## 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.      | Poultry        | 2                             | 0.001     | 40                | 2        | 1230                     | 60       |
| 2.      | Dairy          | 1                             | 0.002     | 40                | 2        | 1230                     | 60       |
| 3.      | Goatery        | 1                             | 0.001     | 40                | 2        | 1230                     | 60       |
| 4.      | Fruit on bund  | 3                             | 0.001     | 40                | 2        | 1230                     | 30       |
| 5.      | Vegetable      | 5                             | 0.001     | 40                | 2        | 1230                     | 30       |

## 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       | Cultivation of Wheat using Zero Tillage | <ul style="list-style-type: none"> <li>• Saving of in situ moisture</li> <li>• Timelines in farming operations</li> <li>• Reduction in cost of cultivation</li> </ul>                                         | 65000-70000/ha-yr                                                                | 4672                                                  |    |
| 2       | DSR in Paddy                            | <ul style="list-style-type: none"> <li>• High yielding varieties var. Rajshree</li> <li>• Better Nutrient Management</li> <li>• Cost effective</li> <li>• Better in low land/chour area</li> </ul>            | 60000-65000/ha-yr                                                                | 558                                                   |   |
| 3       | Sugarcane + Lentil intercropping        | <ul style="list-style-type: none"> <li>• High yielding varieties Better Nutrient Management</li> <li>• Cost effective</li> </ul>                                                                              | 165000-170000/ha-yr                                                              | 231                                                   |  |
| 4       | Low Cost Commercial Vermi-Compost Unit  | <ul style="list-style-type: none"> <li>• Low cost pits</li> <li>• Organic farm and domestic wastes</li> <li>• Regular optimum watering of compost media</li> <li>• Sieving and packaging of usable</li> </ul> | 90000 - 120000/Annum                                                             | 28                                                    |                                                                                       |
| 5       | Cultivation of Oilseed Crop             | <ul style="list-style-type: none"> <li>• High yielding varieties var. R. Suflam</li> <li>• Micro Nutrient Practices</li> <li>• Line Sowing</li> </ul>                                                         | 40000-45000 / ha-yr                                                              | 560                                                   |  |

|    |                  |                                                                                                             |      |                                                                                     |
|----|------------------|-------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|
| 6. | Agromet Advisory | <ul style="list-style-type: none"> <li>Advisory related to farming and weather (twice in a week)</li> </ul> | 9375 |  |
|----|------------------|-------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|

### 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)                                |
|-----------------------|--------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 18.02.2021-19.02.2021 | Shri Phagu Chauhan       | H.E. Hon'ble Governor, Govt. of Bihar                             | PashuAarogya Mela-2021                                                                      |
|                       | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India |                                                                                             |
|                       | Shri Pramod Kumar        | Sugarcane Industry and Law, Govt. of Bihar                        |                                                                                             |
|                       | Shri Mukesh Sahni        | Animal Husbandry & Fisheries, Govt. of Bihar                      |                                                                                             |
| 22.03.2021            | Shri Pramod Kumar        | Sugarcane Industry and Law, Govt. of Bihar                        | Chief guest of World Water Day and Workshop on Fisheries development for fisherman of Bihar |
| 22.05.2021            | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
|                       | Shri Pramod Kumar        | Sugarcane Industry and Law, Govt. of Bihar                        |                                                                                             |
| 23.05.2021            | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
| 05.06.2021            | Shri Pramod Kumar        | Sugarcane Industry and Law, Govt. of Bihar                        | Plantation on the occasion of World Environment Day - 2021                                  |
| 08.06.2021            | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India | Distributed Multipurpose grinder machine to ARYA beneficiaries                              |
| 03.07.2021            | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India | Distribution of 10000 Anolaplants to the farmers                                            |
| 14.08.2021            | Shri Radha Mohan Singh   | Ex- Union Agri. Minister and Current MP, Motihari, Govt. of India | SahkaarSammelan                                                                             |
|                       | Shri Pramod Kumar        | Sugarcane Industry and Law, Govt. of Bihar                        |                                                                                             |

| Date of Visit | Name of Hon'ble Minister | Name of Ministry                                                          | Salient points in his/ her observation<br>(2-3 bulleted points)                                         |
|---------------|--------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 15.08.2021    | Shri Radha Mohan Singh   | Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India, | Kisan Sammelan                                                                                          |
|               | Shri Janak Ram           | Ministry of Mines & Geology, Govt. of Bihar,                              |                                                                                                         |
| 07.09.2021    | Shri Radha Mohan Singh   | Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India  | To visit demonstration units at KVK Piprakothi                                                          |
| 30.09.2021    | Shri Radha Mohan Singh   | Present Hon'ble MP, Motihari, Ex-Union Agri. Minister and Govt. of India  | Look out the work progress of inauguration program                                                      |
| 13.10.2021    | Shri Jivesh Mishra       | Ministry of Employment, Govt. of Bihar                                    | To visit demonstration units at KVK Piprakothi                                                          |
| 31.10.2021    | Shri Pramod Kumar        | Ministry of law and Sugarcane industry, Govt. of Bihar                    | Garlanding the statue of Sardar Patel on the occasion of birth anniversary of Sardar Vallabh Bhai Patel |
| 07.11.2021    | Shri V. Naidu            | Vice President, Govt. of India                                            | 2 <sup>nd</sup> Convocation program of DRPCA, Pusa.                                                     |
|               | Shri Phagu Chauhan       | Hon'ble Governor, Govt. of Bihar                                          |                                                                                                         |
|               | Shri Nirish Kumar        | Chief Minister, Bihar,                                                    |                                                                                                         |
|               | Shrimati Renu Devi       | Deputy Chief Minister, Bihar                                              |                                                                                                         |
|               | Shri Radha Mohan Singh   | Present Hon'ble MP, Motihari, Ex-Union Agri. Minister, Govt. of India     |                                                                                                         |
|               | Shri Pramod Kumar        | Ministry of law and Sugarcane industry, Govt. of Bihar                    |                                                                                                         |

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 | Bee Keeper           | Dr. K. Jha & Shri. R. B. Sharma                       | 25.03.16                  | 08.05.17                       | 20                  | Yes                                   | 320000.00                            |
|         | Organic Grower       | Dr. A. K. Singh                                       | 25.03.16                  | 08.05.17                       | 20                  | Yes                                   |                                      |
| 2019    | Bee Keeper           | Shri. R. B. Sharma                                    | 21.02.2019                | 27.02.2019                     | 20                  | Yes                                   | 306400.00                            |
|         | Organic Grower       | Dr A. K. Singh                                        | 21.02.2019                | 27.02.2019                     | 20                  | Yes                                   |                                      |
| 2020    | Organic Grower       | Dr A. K. Singh                                        | 25.02.2020                | 28.03.2020                     | 20                  | Yes                                   | 360000.00                            |
|         | Mushroom Grower      | Dr. Neelam Kumari                                     | 02.03.2020                | 31.03.2020                     | 20                  | Yes                                   |                                      |
| 2021    | Mushroom Grower      | Dr. Neelam Kumari                                     | 16.02.2021                | 14.03.2021                     | 25                  | Yes                                   | 225000.00                            |

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

[illegible]

## 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. Neelam Kumari     |                                 |                 | 03                              | 03                                                         | 15                                                     |                                                                                 |

## 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.    | PipraDih                    | Nutritional garden       | 02     | 100        | 10                   |
| 2.    | Damodarpur                  | Community Level          | 01     | 2000       | 8                    |
| 3.    | Lalbegiya                   | Community Level          | 02     | 2000       | 8                    |
| 4.    | Kuvarpur                    | Nutritional garden       | 01     | 100        | 10                   |
| 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 |
|-----------------------------|--------|--------------------|------------------------------------------------------------------|--------------|---------|-----------|----------------------|
|                             |        |                    |                                                                  |              |         |           |                      |
|                             |        |                    |                                                                  |              |         |           |                      |

## 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 |
|-----------------------------|-----------------------------------------|------------------------------|--------------------|-------------------------------|
| PipraDih                    | Wheat, Ragi, Soyabean, Gram, Greengram, | Health mix, Ragi, Laddu      | FLD                | 45                            |
|                             | Mushroom, Anola, Carrot                 | Dehydrated Mushroom, Murabba |                    |                               |

## d. Training programmes in Nutri-Smart village

| Name of Nutri Smart Village | Area of Training   | No of courses | No. of beneficiaries |
|-----------------------------|--------------------|---------------|----------------------|
| Damodarpur, PipraDih        | Nutri Cereals      | 02            | 45                   |
| Kuvarpur, Rudalpakri        | Nutritional garden | 05            | 121                  |

## e. Extension activities under NARI Project

| Name of Nutri-Smart Village | Title of Activity                | No. of activities | No. of beneficiaries |
|-----------------------------|----------------------------------|-------------------|----------------------|
| PipraDih, Kuvarpur, Jhakra  | Importance of poshanVatika,      | 06                | 110                  |
|                             | Balance diet awareness programme |                   |                      |

## 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 benefitted |   |    |   |        |   |       |   | 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<br>programm<br>e | No. of<br>Programm<br>e | Activities performed                |                                   |                                                       |                                                                                  | No. of farmers benefited |   |    |   |            |   |       |   | No. of<br>other<br>officials<br>(except<br>KVK)<br>attended<br>the<br>programm<br>e |   |
|--------------------------|-------------------------|-------------------------------------|-----------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------|---|----|---|------------|---|-------|---|-------------------------------------------------------------------------------------|---|
|                          |                         | No. of<br>animals<br>vaccinate<br>d | No. of<br>animals<br>deworme<br>d | Feed/<br>nutrient<br>supplement<br>s provided<br>(kg) | Any other<br>(Distributio<br>n of<br>animals/<br>birds/<br>fingerlings)<br>[No.] | SC                       |   | ST |   | Other<br>s |   | 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                        |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Pit established              |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Farm implements distributed  |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Others, if any               |                          |   |    |   |        |   |       |   |   |  |                                                            |
| KKA-II            | Soil Health Card Distributed |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | NADEP                        |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Pit established              |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Farm implements distributed  |                          |   |    |   |        |   |       |   |   |  |                                                            |
|                   | Others, if any               |                          |   |    |   |        |   |       |   |   |  |                                                            |

### Krishi Kalyan Abhiyan- III

| Krishi Kalyan Abhiyan - III |                           |                           |   |    |   |        |   |       |   |   |                                    |
|-----------------------------|---------------------------|---------------------------|---|----|---|--------|---|-------|---|---|------------------------------------|
| No. of villages covered     | No. of animal inseminated | No. of farmers benefitted |   |    |   |        |   |       |   |   | Any other, if any<br>(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.      | PashuAarogya Mela     | 18-19.02.2021         | KVK, Piprakothi | Exhibition and Kisan Goshti | 5000                |
| 2.      | Kisan SahkaarSameelan | 14-16.08.2021         | KVK, Piprakothi | Kisan Goshti                | 1500                |
| 3.      | Good Governance Day   | 25.12.2021            | KVK, Piprakothi | Kisan Goshti                | 716                 |

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

## Photographs of Activities



Senior Scientist and Head alongwith Scientists/staffs of KVK, Piprakothi participated in KishanSammelan and Kishan-Krishi VaigyanikVartalaap held on 26.01.2021 organized by MGIFRI, Piprakothi. Hon'ble Shri Radha Mohan Singh Sir, MP, Motihari and Ex-Union Agriculture Minister, Govt. of India was the chief guest of this program and facilitated 4 progressive farmers (CRAP and ARYA, Project) of KVK, Piprakothi.



KVK, Piprakothi organized Kishan Gosthi program in collaboration with Tetaria Kishan Sangh, Tetaria at Madhyamik Vidhyalay, Vill-Kadma Pachimi, Block- Tetaria held on 02.02.2021. In this program Dr. T. P. Mahto, Incharge IBDC, SMS, Agril. Engg. (SWE) and Prog. Asstt. (Lab. Tech.), KVK, Piprakothi delivered lectures on Insect & Pest management in Rabi crops, Modern farm machinery for sustainable crop production and Soil Health & important nutrients for crops, respectively, among the farmers. On this occasion Shri Ramchandra Yadav, President, Tetaria Kishan Sangh, and other dignitaries were also present.



दिनांक 18.02.2021 को कृषि विज्ञान केन्द्र में आयोजित पशु आरोग्य मेला का उद्घाटन एवं पंडित दीनदयाल उपाध्याय उद्यानिकी एवं वानिकी महाविद्यालय के आवासीय कॉम्प्लेक्स का शिलान्यास मुख्य अतिथि महामहिम राज्यपाल, बिहार के द्वारा किया गया। इस अवसर पर विशिष्ट अतिथि श्री रामधामोहन सिंह, माननीय सांसद मोतिहारी एवं पूर्व कृषि एवं किसान कल्याण मंत्री, भारत सरकार श्री प्रमोद कुमार, माननीय मंत्री, गन्ना उद्योग एवं विधिविभाग, बिहार सरकार, श्री मुकेश सहनी, माननीय मंत्री, पशु एवं मत्स्य संसाधन विभाग, बिहार सरकार, मंच पर उपस्थित थे। इसके साथ ही डॉ. रामेश्वर सिंह, माननीय कुलपति, बिहार पशु विज्ञान विश्वविद्यालय, डॉ. रमेश श्रीवास्तव, माननीय कुलपति, डॉ. राजेंद्र प्रसाद केंद्रीय कृषि विश्वविद्यालय, पूसा, समस्तीपुर एवं डॉ. अंजनी कुमार, निदेशक अटारी पटना की भी गरिमामय उपस्थिति मंच पर थी। इस दौरान जिले के विधायक, विश्वविद्यालयों के निदेशक, अधिष्ठाता, के. वी. के. के. सी. वैज्ञानिक एवं कर्मि, पशुपालकों, महिला किसानों की भी उपस्थिति थी।





SMS, Agril. Engg. (SWE), KVK Piprakothi and Seed Inspector, BSS&OCA, Muzaffarpur conducted field visit at Seed hub plot of Lentil (var. HUL-57) in Vill-Jamunia, Block- Chakia on 01.03.2021



Sale of Green Gram seed (var. IPM-02-03) to Kaushalaya foundation under Seed Hub project of KVK, Piprakothi.



Capsicum produced under polyhouse of KVK, Piprakothi. Piking was carried out in presence of Sr. Scientist and Head, PD ATMA Motihari and Farm Manager.



Participated in bee box distribution by district horticulture department with DAO,PD ATMA,ADHO, Motihari.All participant are trained by IBDC Project kvkpiprakothi on 03.03.2021



40 Farmers (Exposure visit) from KVK, Siwan visited at different unit of KVK, Piprakothi, East Champaran on 03.03.2021



15 days INM Training (11th Batch and 40 participants) for the fertilizer dealers is started at KVK Piprakothi. On this occasion Chief Guest were PD-ATMA, Motihari and Distinguished guest Deputy PD ATMA. Senior Scientist and Head along with guest inaugurated the training program.



International Women's Day celebration at KVK Piprakothi East Champaran. Live telecast of the program also viewed by the women farmers on 08.03.2021



Trainees of INM, Organic Growers and Mushroom Grower departed DRPCA, Pusa for exposure visit on 09.03.2021.





Critical input distributed to the farmers under CFLD program on pulses at KVK, Piprakothi.



Senior Scientist and Head along with SMS (Horticulture), SMS (SWE), KVK, Piprakothi and Research Technician, CSISA, Motihari conducted diagnostic visit at Banana & Mango orchard at Kalyanpur block 10.03.2021



Manufacturing of honey comb foundation sheet through Automatic comb foundation machine at IBDC under KVK, Piprakothi.



KVK, Piprakothi started 10 days training on "Bamboo Dastkaar and Handicraft Art" sponsored by ATMA, Motihari with the technical support of CBTC, Assam.



SMS Agril. Engg. (SWE) and SMS, Agromet, KVK, Piprakothi participated as resource person in one day training program organized by Regional Centre of Organic Farming, Patna at Vill- Bisunpur, Block- Piprakothi on 14.03.2021



KVK, Piprakothi supplied Medicinal plants (Lemon grass) to the progressive farmers of the district.



Dr. Virendra Singh, Director, Directorate of Rice Development, Govt. of India and SMS, Agril. Engg. (SWE), KVK, Piprakothi visited CFLD plot of Pigeon pea crop in Vill- Baswanpur, Lenti crop in Vill- Baswanpur, Majurahan and Rai crop in Vill- Surajpur, Ahrauliya, Barahwakalan and Seed Hub plot of Lenti crop in Vill- Surajpur on 16-17/03/2021.





Today MSME, Muzaffarpur in collaboration with KVK Pirakothi started one another 30 days training program on Food Processing at KVK campus.



Valedictory function graced by Dr. Anjani Kumar Sir Director ATARI-Patna alongwith Senior Scientist & Head, KVK, Pirakothi and also distributed certificate to the participants in 15 days INM training program (11th Batch) at KVK, Pirakothi on 19.03.2021.



KVK, Pirakothi distributed One Multi-purpose Grinding Machine (ARYA Project) to farm women of AadrashtSahyataSamooH at Nagar Palika building, Areraj. The program graced by Shri Radha Mohan Singh, Hon'ble M.P. Motihari and Ex-Union Agriculture Minister, Govt of India, Shri Pramod Kumar, Hon'ble Minister Sugarcane Industry and Law Ministry, Dr. A.K. Singh, Director ICAR-ATARI, Patna, and other dignitaries were also present.



Branch management and staking in capsicum crop under polyhouse of KVK, Pirakothi



KVK Pirakothi participated and put a stall in Krishi Unnati Mela-2021 organized by KVK, Parsauni, East Champaran-II at KVK campus.





KVK, Piprakothi organized one day workshop on the occasion of world water Day. The program graced by Shri Pramod Kumar, Hon'ble Minister Sugarcane Industry and Law Ministry, Govt of Bihar and other dignitaries. On this occasion Officials of KVK, Incharge IBDC Piprakothi, DFO, Motihari were also present.

Staking of tomato crop variety NHB-2244 under netshed of KVK, Piprakothi



Sowing of Green Gram (var. IPM-02-03) with Zero tillage technique under CRA program of KVK, Piprakothi.

Monitoring of Multi-purpose Grinder Machines distributed to four FPOs (LavKushAgro producer, Sangrampur, Baba Someshwar Nath SamirddhiAgro Producer, Areraj, AtiUttamAgro Producer, Paharpur, Nav UrjaAgro Producer, Harsidhi) and Adarsh SahyataMahilaSamooH under ARYA project by KVK, Piprakothi. These machines are working very well and the FPO's members are very satisfied with this machine.



Crop cutting and data collection of KVK-CSISA trial on Wheat (Var. DBW-187) crop at Vill- Barharwan Kalan under the supervision of Senior Scientist and Head, SMS, Agril. Engg. (SWE), KVK, Piprakothi and Officials of CSISA Project, Motihari.

Diagnostic field visit by SMS (Vet. Sci.) KVK, Piprakothi at Dy. Commandant residence Motihari and suggested for balanced ration formulation, general management and round the year fodder production for animals.





Establishment of hydroponic fodder demonstration unit at KVK, Piprakothi.

Live telecast program on PM Kisan Samman Nidhi Yojna watched by Senior Scientist & Head along with SMS, Agril. Engg. (SWE), KVK, Piprakothi.



KVK Piprakothi celebrated World Bee Day by virtual meeting .

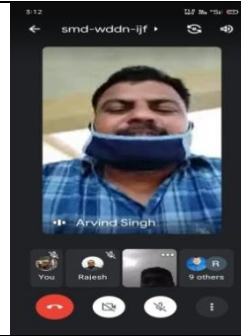


कृषिविज्ञानकेन्द्र, पीपराकोठीके अंतर्गत आर्यापरियोजनाके तहत तीन महिला समूहों को एक एक मल्टीपरपज ग्राइंडर मशीन का वितरण श्री राधामोहन सिंह जी माननीय सांसद, मोतिहारी एवं भूत- पूर्व कृषि एवं किसान कल्याण मंत्री, भारत सरकार के द्वारा केन्द्र के परिसर में किया गया। इस अवसर पर श्री प्रमोद कुमार जी, बिहार सरकार तथा केन्द्र के वरिय वैज्ञानिक एवं प्रमुख भी उपस्थित रहे। माननीय गन्ना एवं विधि मंत्री,





Training programme on the topic Poultry farming and its management under ARYA project, organized by KVK Piprakothi.



विषयवस्तुविशेषज्ञ (कृषिअभियंत्रण), के.वी.के.,  
पीपराकोठीनेबदलतेमौसमपरिवेशमेंधानकीसीधीबुआई  
विषयपरप्रशिक्षणकार्यक्रमकाआयोजनऑनलाइनप्लेटफॉर्म(गूगलमीटिंग)  
परआयोजितकिया। जिसमेंकिसानोंकोविस्तृतजानकारीवरीयवैज्ञानिकएवंप्र  
मुख, के.वी.के., पीपराकोठीकेद्वारादीगई।



Direct Seeded Rice (DSR) (Var: Rajshree) at village-  
Belwatiya under CRA program of KVK, Piprakothi.



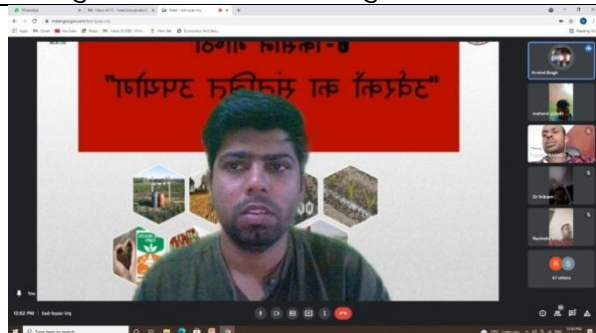
Distribution of Vanraja chicks and feeds among the  
farmers of NarhaPanapur village under ARYA Project at  
KVK, Piprakothi.



आज 15 एकड़क्षेत्रफलमेंधानकीसीधीबुआईकाप्रायोगिकपरीक्षणके  
सीसापरियोजनाकेअंतर्गतग्राम - बरहरवाकलां,  
कोटवामेंकियागया। इसअवसरपरकृषिविज्ञानकेन्द्र,  
पिपराकोठीकेवरीयवैज्ञानिकएवंप्रमुख डॉ. अरविंदकुमारसिंह, विषयवस्तुविशेषज्ञ  
(कृषिअभियंत्रण) ई.अंशूगंगवारएवंसीसाकेशोधतकनीशियन,  
श्रीराजेशकुमारवतकनीशियनश्रीचंदनकुमारउपस्थितरहे।



के.वी.के.,  
पिपराकोठीमेंचलरहीसीडहबपरियोजनाकेअं  
तर्गतग्राम- दीपहिं, ब्लॉक - चिरैयामेंमूंगफसल  
(किस्म: आई.पी.एम.-02-03)  
सेपहलीतुड़ाईकीगई।





KVK, Piprakothi organised e-Kisan Goshti on "Balance use of fertilizers". Dr. Srikant, DHO, Motihari was the chief guest of this program. 60 farmers were present in this program.



कृषिविज्ञानकेंद्र, पिपराकोठीद्वाराग्राम: माधोपुरगोविंदमेंकिसानोंकोवर्मीकम्पोस्टउत्पादनकेलिएHDPE प्लास्टिकबैगोंकावितरणकियागया।



DSR through Rice Wheat seeder in Vill- Bairiya under CRA program of KVK, Piprakothi.

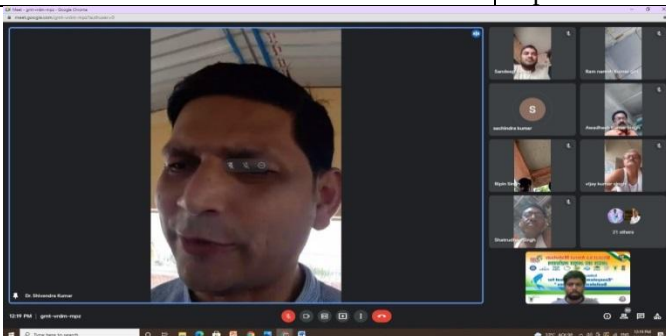


SMS, Agril. Engg. and other staff of KVK Piprakothi visited for installation of Multiple purpose flour machine under ARYA Project at Agrology FPO in Vill- Madhuran Vrit, Block-Tetaria



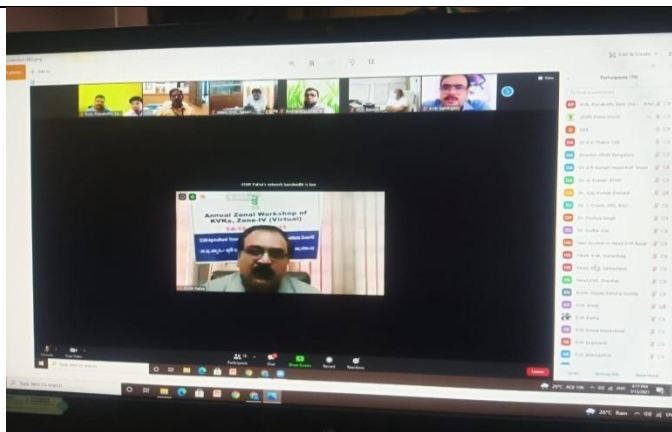
Today DDM NABAD, Motihari visited KVK, Piprakothi. He visited all demonstration units and he shows his interest in collaborative innovative works with KVK.

Hon'ble Ex- Union Agriculture Minister, GOI and Present MP Motihari Shri Radha Mohan Singh ji distributed 10000 number of Anola plants for the farmers and environment welfare at KVK, Piprakothi, which were sponsored by IFFCO, Motihari. On this Occasion Respected MLAs and Senior Scientist & Head, KVK Piprakothi were also present.



KVK, Piprakothi conducted online training program on the occasion of National Fish Farmers Day. In this program Dr. Shivendra Kumar, Associate Professor, College of Fisheries, DRPCA, Pusa delivered lecture on Biofloc system for fish Farming and also demonstrated Biofloc System to the farmers through virtual mode.

KVK, Piprakothi sold out 500 plants (Lemon, Guava and Coconut) to ICAR-MGIFRI, Piprakothi.



Senior Scientist and Head along with all the SMS of KVK Piprakothi participated in 4th Annual Zonal Workshop organized by ATARI, Patna. On behalf of Senior Scientist & Head SMS, AgrilEngg presented Annual progress report 2020 and Action plan 2021-22 in this workshop.



KVK, Piprakothi conducted plantation drive in KVK campus on the occasion of 93rd ICAR foundation day.



KVK, Piprakothi conducted training program on the occasion of 93rd ICAR foundation day, in which FPO chairmen and FPO members were benefited.



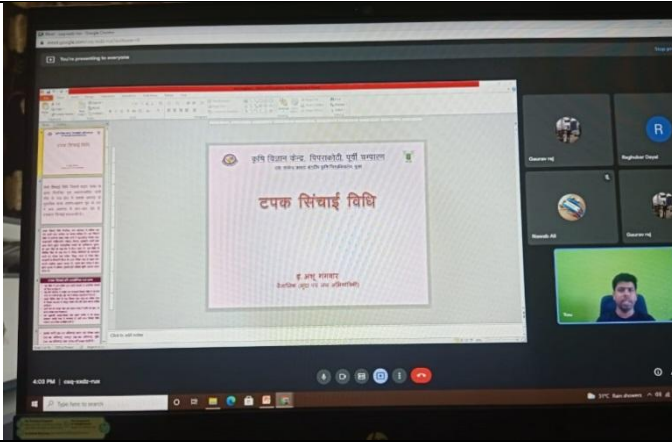
SMS Community science visited milky mushroom production unit, under FLD program, village Damodarpur



Today KVK, Piprakothi team facilitated by Honourable Vice Chancellor Sir, Respected Director Extension Education Sir and Deputy Director Extension Education Mam on the occasion of National Award Winner ceremony at DRPCAUI, Pusa. Honourable Sir congrats to KVK team for their future endeavour. In this ceremony all the Respected Directors, Deans and Senior Scientist and Head of KVKs were also present.







SMS, Agril. Engg. (SWE) organized training on the topic " Drip Irrigation System" by virtual mode at KVK, Piprakothi.



Critical inputs distributed to the farmers under CFLD program on pulses (Kharif) at KVK, Piprakothi.



RAWE students visited Surajpur Gram Panchayat for Rural exposure. They visited small scale Agro-based cottage industry, orchard and also interacted with farmers.



Anand Kumar, Programme Assistant, KVK Piprakothi & Ramesh Kr. Gupta, SRF, KVK, Piprakothi participated in Kisan Gosthi organized by ATMA, Motihari at village-Kudhni, East Champaran



कृषिविज्ञानकेन्द्र, पिपराकोठीमेंसहकारसम्मेलनकाआयोजनकियागया।कार्यक्रमकाशुभारंभमुख्यअतिथिश्रीराधामोहनसिंहजी माननीयसांसदमोतिहारीएवंपूर्वकृषिएवंकिसानकल्याणमंत्री भारतसरकार, विशिष्टअतिथिश्रीप्रमोदकुमार, माननीयमंत्री, गन्नाउद्योगएवंविधिविभाग, बिहारसरकार, श्रीयोगेन्द्रकुमार, विपणननिदेशक, इफको, नईदिल्ली, नेकिया।इसअवसरपरगणमान्यसदस्योंश्रीकृष्णनंदनपासवान्, माननीयविधायक, हरिसिद्धि, डॉ. अंजनीकुमार, निदेशक, अटारी, पटना, डॉ. उज्ज्वलकुमार, निदेशक, आर.सी.ई. आर., पटना, श्रीसुरेन्द्रसहगल, क्षेत्रीयनिदेशक, एन.सी.डी.सी., पटना, श्रीविजयतराने, क्षेत्रीयप्रबंधक, पटना, श्रीअनिकेशएवंजिलाकृषिपदाधिकारी, मोतिहारी, जिलाउद्यानपदाधिकारी, मोतिहारी, जिलामत्स्यपदाधिकारी, मोतिहारी, सहायकनिदेशक (पौधासंरक्षण), मोतिहारीकीभीगरिमामयउपस्थितिमेंचपरथी।कार्यक्रमकेशुभारंभकेपश्चातगणमान्यसदस्यों विशिष्टअतिथियोंनेअपना-अपनाउद्बोधनदिया।इसकेबादमुख्यअतिथिनेकार्यक्रममेंआएसभीमत्स्यपालकोंपैक्ससदस्योंकोसंबोधितकिया।



कृषिविज्ञानकेन्द्र, पिपराकोठीकेसभागारमेंकिसानसम्मेलनसहपरिभ्रमणकार्यक्रमकाआयोजनकियागया। कार्यक्रमकाशुभारंभमुख्यअतिथिश्रीराधामोहन सिंहजी, माननीयसांसदमोतिहारीएवंपूर्वकृषिएवंकिसानकल्याणमंत्री भारतसरकार, विशिष्टअतिथिश्रीजनकराम, माननीयमंत्रीखननएवंभूतत्वविभाग, बिहारसरकारनेकिया। इसअवसरपरगणमान्यसदस्योंश्रीकृष्णनंदनपासवान, माननीयविधायक, हरिसिंधि, श्रीश्यामबाबूयादव, माननीयविधायक, पिपरा, श्रीसुनीलमणितिवारी, माननीयविधायक, गोविंदगंज, श्रीसचिंद्रप्रसाद, पूर्वविधायक, कल्याणपुर, श्रीराजेंद्रगुप्ता, पूर्वसदस्य, आई.सी.ए.आर. प्रबंधसमिति, श्रीअखिलेशसिंह, पूर्वसदस्य, आई.सी.ए.आर. प्रबंधसमिति, श्रीप्रकाशअस्थाना, सदस्य, डॉ.रा.प्र.के.वि.वि., पूसा, डॉ. अंजनीकुमार, निदेशक, अटारी, पटना, श्रीसुरेन्द्रसहगल, क्षेत्रीयनिदेशक, एन.सी.डी.सी., पटना, डॉ. रविभूषणप्रसाद, क्षेत्रीयनिदेशक, नारियलबोर्ड, पटना, डॉ. अरविंदकुमारसिंह, वरीयवैज्ञानिकएवंप्रधान, के. वी. के., पिपराकोठी, जिलाउद्यानपदाधिकारी, मोतिहारी, सहायकनिदेशक (पौधासंरक्षण) मोतिहारी, श्रीचंद्रकिशोरमिश्रा, समाजसेवीकीभीगरिमामयउपस्थितिमंचपरथी। कार्यक्रमकेशुभारंभकेपश्चातगणमान्यसदस्योंएवंविशिष्टअतिथिनेअपनाउदबोधनदिया। इसकेबादमुख्यअतिथिनेकार्यक्रममेंआएसभीकिसानोंकोसंबोधितकिया। कार्यक्रममेंकेन्द्रकेसभीवैज्ञानिकोंएवंकर्मियोंकीभीउपस्थितिभीरही।



SMS, Agril. Engg. (SWE), KVK, Piprakothi participated as resource person in Kisan Goshti program organized by Krish-e Mahindra at Husain Bazar, Keshariya block.

Today Hon'ble Vice Chancellor Sir, Registrar Sir, Director Extension Education Sir, Director Research Sir, Director Education Sir, Director (B&I) Sir, DRPCA, Pusa, Dean Sir, PDDUCoH&F, Piprakothi and other dignitaries visited at KVK, Piprakothi for preparation of jointly Inauguration program of Horticulture College, RGM building and Convocation program of DRPCA, Pusa. On this occasion Senior Scientist & Head and other Scientists/staffs of KVK, Piprakothi were also present.





Parthenium awareness week organized at KVK, Piprakothi.



KVK Piprakothi organized an exposure visit at DRPCA, Pusa for trainees of 15 days INM training program (12th batch). They also visited different demonstration units established at university campus.



Dr. R. K. Jat, Agronomist, BISA visited at CRA villages namely Madhopur Govind, Bairyia and Belwatiya under KVK, Piprakothi. He appreciated the work done by KVK and also motivated farmers for the adoptions of different CRA interventions. During the visit Scientists/Staff of KVK Piprakothi were also present.



Krishi Vigyan Kendra Piprakothi organized Food and Nutrition for Farmers at KVK Campus which was Inaugrated by Hon'ble Agriculture Minister Govt of India Shri N S Tomar Ji and Shri Kailash Chaudhary Ji Minister of State (Agriculture) and Hon'ble DG ICAR Dr Trilochan Mahapatra Sir and DDG Extension Education ICAR Dr AK Singh Sir and other dignitaries of the ICAR, New Delhi in Virtual mode. On this occasions Kisan Gosthi and exhibition of food processing unit was organized in KVK Campus. Total 86 farmers and Farm were Women participated.



आजकृषिविज्ञानकेंद्र, पिपराकोठीमेरेलसंबंधीस्थाईसंसदीयसमितिनेदौराकिया।इससमितिमेंदेशकेरेलवेस्टैंडिंगसमितिकेअध्यक्षश्रीराधामोहनसिंह माननीयसांसद, मोतिहारीवपूर्वकृषि एवंकिसानकल्याणमंत्री, भारतसरकार, विभिन्नप्रदेशोंके 12 माननीयसांसद, रेलवे (समस्तीपुरजोन) केजनरलमैनेजर, डी. आर. एम., माननीयविधायकगण (जिला - पूर्वचंपारण), निदेशकशिक्षा, डॉ.रा.प्र.के.कृ.वि.वि., पूसा, कीगरिमामयीउपस्थितिरही।समितिमेंआएमाननीयगणमान्यसदस्योंनेकेंद्रकीविभिन्नप्रदर्शनइकाइयोंकाभीभ्रमणकिया।इसदौरानजिलेके कईगणमान्यव्यक्तियोंएवंकेंद्रकेसभीवैज्ञानिकोंएवंकर्मियोंकेउपस्थितिभीरही।





SMS, Agril. Engg.(SWE), KVK, Piprakothi participated in field visit program on Technology demonstration plots (viz. Transplanting of Paddy through Paddy transplanter) organized by Mahindra Krishi-e in different villages- Sarottar, South Husaini, East Husaini.



KVK, Piprakothi organised an exposure visit for JEEVIKA Entrepreneurs farm women and men. In the visit Dr. Neelam Kumari, Home Science, SMS and Manish Kumar, Farm Manager demonstrated all demonstration unit established at the center.



KVK, Piprakothi conducted one day training programme on Nutrient management through leaf colour chart (LCC) & Disease pest management in paddy crop and also organised exposure visit on CRA plot at village - Madhopur Govind under CRA programme, KVK Piprakothi, East Champaran.



आजदिनांक 26 सितंबर 2021 को कृषिविज्ञानकेंद्र, पिपराकोठी में कृषि एवं खाद्य प्रसंस्करण निर्यात विकास प्राधिकरण का वाणिज्य एवं उद्योग मंत्रालय (अपेडा), भारत सरकार के द्वारा ए० पी० ओ०/ कृषक एवं निर्यातकों के लिए वाणिज्य उत्सव के अवसर पर क्षमता संवर्धन कार्यक्रम एवं व्यापार सम्मेलन का आयोजन किया गया जिसमें 12 एफ. पी. ओ. के अध्यक्ष एवं सीईओ के साथ साथ कृषकों एवं प्रगतिशील किसानों ने भाग लिया।



KVK Piprakothi conducted travelling seminar & exposure visit at BISA Farm for the farmers of Bairiya village under CRA program. In this seminar Dr. R. K. Jat, Senior Agronomist, BISA Farm and Dr. Vijay Meena, Project Coordinator, CRA program interacted with the farmers and briefed about various innovative technological interventions along with the importance of CRA Programme. After this farmers visited DSR field of Paddy, Soyabean crop at BISA Farm and Agriculture Farm Machinery bank.







कृषिविज्ञानकेन्द्र, पीपराकोठी एवं महात्मा गांधी समेकित अनुसंधान संस्थान, पीपराकोठी, द्वारा सहयोगात्मक जलवायु अनुकूल प्रजातियों प्रौद्योगिकी एवं कार्यपद्धतियों पर कृषक वैज्ञानिक परिचर्चा का आयोजन अनुसंधान संस्थान के सभागार में किया गया। इस कार्यक्रम में भारतीय कृषि अनुसंधान परिषद, नई दिल्ली से सीधे प्रसारण में वर्चुअल माध्यम द्वारा पूर्व चम्पारण के किसानों को जोड़ा गया। माननीय प्रधानमंत्री श्री नरेन्द्र मोदी छत्तीसगढ़ के मुख्यमंत्री श्री भूपेश बघेल एवं कृषि कल्याण मंत्री श्री नरेन्द्र सिंह तोमर ने किसानों को संबोधित किया। इस कार्यक्रम में माननीय प्रधानमंत्री ने नेशनल इंस्टीट्यूट ऑफ बायोटेक स्ट्रेस मैनेजमेंट के लोकार्पण के बाद पैतीस फसल के प्रभेदों को रिलीज किया। इस अवसर पर प्रधानमंत्री ने देश के विभिन्न राज्यों के किसानों के साथ संवाद भी किया। इस अवसर पर श्री राधामोहन सिंह जी, माननीय सांसद एवं पूर्व कृषि एवं कल्याण मंत्री, भारत सरकार, श्री प्रमोद कुमार, माननीय मंत्री, गन्ना एवं विधिविभाग, बिहार सरकार, आदरणीय विधायक, पिपरा एवं के.वी.के. के समस्त वैज्ञानिक व जिले के लगभग 315 किसानों ने भाग लिया।



Today KVK Piprakothi in collaboration with MGIFRI-ICAR organised "VicharGhoshti" entitled "Gandhi aur Kisan". On this auspicious occasion chief guest was Hon'ble Ex- Agril. Minister and Present MP Shree Radha Mohan Singh ji, distinguished guest Hon'ble minister government of Bihar Shree Pramod Kumar ji and MLA-Pipra Shree Shyam Babu Yadavji, MLA-Govindganj Shree Sunil Mani Tivari ji and Ex- MLA Kalyanpur Shree Saccindra Singhji. Senior Scientist -KVK along with all the scientist and staff participated in the Program.



KVK, Piprakothi organized Swacchhta campaign with the INM trainees at kvk campus.

Kisan Sammelan organized by Kanpur Fertilizer and chemicals Ltd. at KVK, Piprakothi. In this program Senior Scientist and Head, KVK Piprakothi participated as Chief guest. About 110 farmers participated in this program





KVK Piprakothi organized Mahila Kisan Divas at KVK campus. In this program mahila Kisan awared about nutrition garden and adoption of climate smart agriculture technologies.



KVK, Piprakothi conducted one day training program on the occasion of World Food Day-2021 at Vill- Bairiya.



An exposure visit conducted for farmers/farm women of differents of bihar by KVK, Piprakothi at experimental plot in vill- Barharwa under KVK-CSISA project. In this program Senior Scientist and Head along with SMS (SWE), KVK, Piprakothi, Scientists of CSISA, Research Technician and Technical staff of CSISA were also present.



Distillation unit have been installed at KVK, Piprakothi.



SMS, Agril. Engg. (SWE), KVK, Piprakothi conducted training on Sowing of Rai by using Zero till-cum-ferti seed drill under zero till condition and also distributed critical inputs to the farmers under CFLD program.



Crop cutting of paddy crop in the Vill- Madhopur Govind under CRA program of KVK, Piprakothi





Hon'ble Vice- Chancellor sir, District Magistrate, DIG, S.P., SDM, DSP, East Champaran visited at KVK Piprakothi to inspect the preparations of Convocation program as well as Inauguration program of PDDUCoH&F, Piprakothi. During the inspection Senior Scientist & Head along with SMS and staff of Piprakothi were also present.



KVK, Piprakothi celebrated National Unity Day on the occasion of birth anniversary of the Architect of India's Unity and Integrity, "Iron Man of India" Sardar Vallabhbhai Patel. On this occasion Shri Pramod Kumar, Hon'ble Minister, Sugarcane Industry and Law, Govt. of Bihar pay his tribute by garlanding.



Second convocation ceremony of DRPCA, Pusa organized at KVK, Piprakothi campus, where Hon'ble Vice President of India Shri M. Venkaiya Naidu was Chief Guest. Hon'ble Governor of Bihar, Hon'ble Chief Minister, Hon'ble Agriculture Minister of Bihar, Hon'ble Dy Chief Minister, and Hon'ble ex Agriculture Minister Radhamohan Singh ji and Dr Trilochan Mohapatra Secretary DARE were also present. Chief Guest also inaugurated five buildings of university.



आजमाननीयमहानिदेशक, आई. सी. ए.आर., नईदिल्ली, माननीयकुलपति, डॉ.रा.प्र.के.वि.वि., पूसा, आदरणीयनिदेशक, अटारी, पटना, आदरणीयनिदेशक, प्रसारशिक्षाविभागएवंअधिष्ठाता, आधारविज्ञान, डॉ.रा.प्र.के.वि.वि., पूसा, नेकृषिविज्ञानकेन्द्र, पिपराकोठीमेंस्थापितप्रशासनिकभवन - II केपरिसरकेसामनेवृक्षारोपणकिया।इसअवसरपरकईगणमान्यसदस्योंकेसाथ-साथकेंद्रकेसभीवैज्ञानिकएवंकर्मचारीउपस्थितरहे।



Sowing of wheat ( Variety - HD 2967) with zero tillage technique at village Madhopur Govind under CRA programme, KVK Piprakothi East Champaran



Shri Bipul Kumar Srivastava, Respected Deputy Commissioner, Ministry of Agriculture & Farmers Welfare, Government of India, visited Krishi Vigyan Kendra, Piprakothi and all the demonstration units established in the KVK campus.



KVK, Piprakothi organized one day training program on Importance of Soil testing and also conducted practical session on soil sampling in field on the occasion of World Soil Day-2021 at CRA village- Madhopur Govind.



KVK Piprakothi, Celebrated National Good Governance and Kavyanjali on the occasion of 97th Birth anniversary of Bharat Ratan Shri Atal Bihari Vajpaiji, Ex-Prime Minister, Govt. of India. Hon'ble M.P East Champaran and Ex-Union Agriculture Minister and Faremer Welfare, Govt of India, Shri Radha Mohan Singh ji was the Chief guest of this program. Hon'ble Art & Cultural Minister, Govt. of Bihar Shri Pramod Kumar was the distinguished guest of this program. On this occasion All MLA of Motihari, Dr. Anjani Kumar , Director, ATARI, Dr. K.G. Mandal, Director (ICAR-MGIFRI) Dr. M.S. Kundu, Director (Extension Education), Dr. K.K. Singh, Dean (Horticulture), Members of ICAR and DRPCA, Governing body , Dr. A. K. Singh, Senior Scientist & Head and Scientists/ Staff of KVK Piprakothi were present. In this program more than 500 farmers/farm women were participated.



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नहीं होती थी कि किस खाद को कौन सी फसल में कितना डालना है। किसान जिस खाद को मांगता है, दुकानदार बिना उससे जानकारी दिए दे देता है। बताया कि सरकारी मंशा है कि कम लागत में फसलों को उत्पादन ज्यादा करा जाए। वह तभी संभव है, जब डीलर व दुकानदार प्रशिक्षित होंगे। मैंके पर डॉ. नीलम कुमारी, वनिकी महाविद्यालय के सहायक प्राचार्य वैज्ञानिक डॉ. टीपी महतो, डॉ. अशु गंवार, डॉ.मनीष कुमार, अनुसूचक प्रोग्राम, गैसम वैज्ञानिक डॉ. नैरा प्रसाद सहित अन्य मौजूद थे।

[illegible][illegible]



## एकल गांठ विधि से करें गज्जा की खेती

पीपलकोठी | एक संवाददाता

कृषि विज्ञान केंद्र में रविश्वर को एलन थॉमस विधि से प्रयोग करने उपरान्त के लिए किसानों को प्रेरित किया गया। यह कार्यक्रम डॉ. राजेश कुमार केन्द्रीय कृषि विश्वविद्यालय पुरा के ईअर अनुसंधान संस्थान व केनिक द्वारा संयुक्त संवधानधन में आयोजित किया गया। कुलपति डॉ. रमेश चन्द्र श्रीवास्तव के मार्गदर्शन में डॉ. एम. एस. निदेशिका ईअर अनुसंधान संस्थान डॉ. बलराम कुमार ने डेढ़ पट्टीकरी में डॉ. एम. एस. निदेशिका के वैज्ञानिक सह प्रथम कृषि विज्ञान केंद्र द्वारा किसानों को प्रेरितगण दिया। बताया कि एकक में डेढ़ पट्टीकरी द्वारा कम बीजों में अधिक फल में लेने की विधत को प्रयोग कर अधिक उपजजनित जाया सकल में ईअर अनुसंधान पुरा के वैज्ञानिक संल में डॉ.



सोमवार को प्रशिक्षण कार्यक्रम को संबोधित करते वैज्ञानिक।

नयनवीता कुमार ने अपने फासल में एकल गांव विधि के साथ क्रियावाचक प्रबंधन को निरस्त करने का पथ चला है। रोम में एकल गांव से गांव को दूरी 45 सेमी और कतार से कतार को दूरी 90 सेमी जुड़ना पीछ में भी एकल गांव से गांव को दूरी 45 सेमी और पंक्ति से पंक्ति को दूरी 120 सेमी रखने को माना। दूरी 40 सेमी वैज्ञानिक डॉ. अमिन कुमार ने रोम व कोट प्रबंधन को जाहरी माना है। वैज्ञानिक डॉ. सीके झा ने एकल गांव विधि के लिए पीछ कतार के प्रबंधन व जीविक विज्ञान के इलेक्ट्रॉनिक्स कनेक्ट को माना है। कार्यकर्ता सेवानिवृत्त मोहम्मद वैज्ञानिक डॉ. नेहा पाण्डेय ने किया।

0 1 2 3 4 5 6

केविके की वैज्ञानिक सलाहकार समिति की हुई बैठक

पीपराकोठी(एसएनबी)। पीपराकोठी व परसौनी कृषि विज्ञान केंद्र की वैज्ञानिक सलाहकार समिति की बैठक मंगलवार को केविक पीपराकोठी के सभागार में सम्पन्न हुई। जिसमें विगत वर्ष की योजनाओं की उपलब्धता व वर्तमान वित्तीय वर्ष का प्राकलन प्रस्तुत किया गया। इसके पूर्व राजेन्द्र .शि विश्वविद्यालय पूसा के शिक्षा प्रचार निदेशक डॉ. अनुपमा कुमारी केविक पीपराकोठी प्रमुख डॉ.अर्बिंद कुमार सिंह, परसौनी केविक प्रमुख डॉ.आर्भक्ष कुमार सिंह व आत्मा निदेशक डॉ.श्रीकांत ने कार्यक्रम का शुभारंभ दीप प्रज्वलित कर किया। कार्यक्रम

कि अत्यक्षता शिक्षा प्रसार निदेशक ने किया। डॉ. अरविंद कुमार सिंह व डॉ. अभिशेक कुमार सिंह द्वारा क्रमशः पीपराकोटो व परसौनी केविके का वित्तीय वर्ष 20-21 का प्रतिवेदन प्रस्तुत किया गया। जिस पर उपस्थित सभी वैज्ञानिक व किसान सदस्यों के द्वारा चर्चा की गई। व महत्वपूर्ण सुझाव दिए गए। विशिष्ट अतिथियों ने कार्य के रूपरेखा की सराहना की। मौके पर डॉ. नीलम कुमारी, डॉ. शैलेंद्र कुमार, डॉ. आशीश राय, डॉ. अंशु गैंगवार, किसान पूनम कुमारी, बंदना कुमारी सहित एफपीओ व जीविका समूह के सदस्य मौजूद रहे।

05 • मुजफ्फरपुर • मंगलवार • 09 मार्च 2021 • हिन्दुस्तान • आज का दिन

एक फोन कॉल पर किसानों के खेत तक पहुंचेगा कृषि यंत्र

पीपराकोठी | एक संवाददाता

खेलों के लिए आधुनिक कृषि यंत्रों की किल्लात डोला रहे किसानों के लिए सुखसुखारी हैं। अब एक जोर पर किसानों के खेलों तक कोई भी आधुनिक कृषि यंत्र पहुँचेगा। राजेश्वर कृषि विद्यापीछालय पूना ने भीपराकरोटी कृषि विज्ञान के केन्द्र में कृषि यंत्र बैंक योजना का सुधार कर कहा है। जिसका उद्घाटन पूर्व के केन्द्रीय कृषि मंत्री राजाधोरा सिंह ने दिनाम्बर 20 में किया था। विधान में इसके लिए करोड़ों की राशि उपलब्ध होगी। जिससे आधुनिक कृषि यंत्र होगा।

## ਅਗਲੇ ਮਾਹ ਤੋਂ ਸੁਵਿਧਾ

- आधुनिक कृषि यंत्र अगले माह से मिलने लगेगा
- आधुनिक तकनीक के इस्तेमाल से बढ़ेगा फसल का उत्पादन

20

दिसम्बर को पूर्व  
केंद्रीय कृषि मंत्री ने  
किया था उद्घाटन

## कहते हैं केविके प्रमुख

कैथिके प्रमुख डॉ. अरविंद कुमार सिंह ने बताया कि किसानों को अगले माह से उपलब्ध होगा। इस योजना से किसान लाभान्वित होंगे।

यंत्र का चालक होगा प्रशिक्षित मिली जानकारी के अनुसार विभिन्न यंत्रों को किसानों के खेतों तक ले जाने वाला चालक कृषि में परांगत

होगा। उसे विभिन्न कृषि तकनीक की जानकारी होगी। जो जुताई, काटाई स्प्रे जैसे कार्यों में तकनीक इस्तेमाल करेगा।



कविः न स्यादिति कृषि यंत्र वेद । • हिन्दुस्तान

2000-2001

इस सुविधा से कम खर्च पर ही ज्यादा वजन खोती जा सकेगी। पीरवाछोटी बेलगोशिया के किसान दुर्गा सिंह ने बताया कि 1-2 से कम व राशि की बचत होगी।

मन विकास परियोजना से मछुआरों  
की आय हुई दुगुनी: प्रमोद

**विश्व जल दिवस पर मछली पालको को दिया गया दो दिवसीय प्रशिक्षण**



» मदरलैंड/पू.च

पीपराकोठी स्थानीय कृषि विज्ञान केंद्र के सभागार में सोमवार को विश्व जल दिवस के अवसर पर मत्स्य पालकों को दो दिवसीय प्रशिक्षण का आयोजन किया गया। कार्यक्रम की अध्यक्षता केविके प्रमुख डॉ. अरविंद कुमार सिंह ने किया जबकि मुख्य अतिथि के रूप में

मत्स्यकी विकास हेतु प्रशिक्षण कार्यक्रम आयोजित है। मंत्री श्री कुमार ने कहा कि पिछले तीन वर्षों में कररिया मन का उत्पादन प्रति हेक्टेयर 300 किलो से बढ़कर 700 किलो हो गया है वहीं स्थिति अन्य मन का हुआ है जो औसतन दोगुना से ज्यादा है। इस परियोजना के माध्यम से दो हजार से ज्यादा मत्स्यजीवी आत्मनिर्भर हुए हैं। इस

केन्द्रीय विश्वविद्यालय के बम्बू नर्सरी में बारह प्रकार की उन्नत प्रजाति के बांस बीज है उपलब्ध

## उन्नत बांस की हरियाली से चंपारण गुलजार

पीपराकोठी | एक संवाददाता

निर्माताओं के लिये फायदा, फलदास ने भी मजबूत बतों के संदर्भ में प्रणालित वाक्यावली अव्यय सम्पन्न में हरियाली के साथ फलित हो रहा है। केविके में स्थापित बंधु नर्सों में ऐसे उन्नत प्रपञ्च उपलब्ध कराया गया है जो 25 मीटर ऊंचा व 18 सेंटीमीटर मोटा का होगा। वर्ष 18 में स्थापित होने के बाद अव्यय 50 हजार से अधिक बीज वितरित किया जा चुका है। जो जिले के सुदूर क्षेत्रों में जल-जीवन-हरियाली के सहभागी भी बन रहे हैं। पूर्व के शीव कृषि मंत्रालय के अनुसार से 6.0 करोड़ रुपये



काठक बम्बू नसरी में लसाय गये खास।

[illegible]

**12 प्रजाति है नर्सरी में उपलब्ध:**  
केविके बम्बू नर्सरी में बारह प्रकार की उन्नत प्रजाति के बांस बीज उपलब्ध है।

बायोप्लॉक तकनीक से जिले में मिलेगी नीली क्रांति को गति

पीपराकोटी | एक संवाददाता

**कहते हैं कविक प्रमुख**  
केरले प्रसाद, अरविंद कुमार सिंह ने बताया कि इस तरीका को लेकर किसानों को प्रोत्साहन दिया गया है। वहीं इसके बढ़ावा के लिए किसानों को प्रोत्साहित भी किया जा रहा है।

एक टैंक में मछलियों का समूह।  
मछली को झटकी खाने से बचाए।  
इस मछली पालक उद्योग को बढ़ाएं  
देने के लिए यही तकनीक को अपनाते हैं।  
इसके लिए पानी को गर्म करने पर  
संयोजक से अधिक मछली उत्पन्न  
करते हैं। बायोफिल्टर को अपनाते  
हैं। बायोफिल्टर एक आधुनिक  
योजना है। इसमें पानी के  
इस तकनीक को अपनाते हैं।  
पानी को गर्म करने पर  
संयोजक से अधिक मछली उत्पन्न  
करते हैं। बायोफिल्टर को अपनाते  
हैं। बायोफिल्टर एक आधुनिक  
योजना है। इसमें पानी के

कहते हैं केविके पसख

कैथिक प्रमुख डॉ. अरविंद कुमार सिंह ने बताया कि इस तकनीक को लेकर किसानों को प्रशिक्षण दिया गया है। वहीं इसके बढ़ावा के लिए किसानों को प्रोत्साहित भी किया जा रहा है।

माध्यम से किसान बिना तालाब की खुदाई किए एक टैंक में मछली पालन कर सकेंगे।

**क्या है बायोप्लांक तकनीकी:**  
केविक प्रमुख डॉ. अरविंद कुमार ने बताया कि यह कम लागत और सीमित जगह में अधिक उत्पादन देने वाली तकनीकी है। इस तकनीकी में टैंक सिस्टम में उपकारी बैक्टीरिया के द्वारा मछलियों की विण्टा और अवशेष भोजन को प्रोटीन सैल में परिवर्तित कर मछलियों के पोष्य पदार्थ के रूप में रूपांतरित कर दिया जाता है।



## रंगीन फूलगोभी की खेती संवारेगी तकदीर

### पीपराकोठी

पीपराकोठी | एक संवाददाता

जिलावासियों के लिए खुशखबरी है, अब थाली में रंगीन फूलगोभी की सब्जी का स्वाद चखेंगे। फूलगोभी की सब्जी तो हम सभी को पसंद होती है। घर में तो अक्सर इसकी स/ब्जी बनती ही है। धार्मिक आयोजनों के भंडारे से लेकर शादी समारोहों में तो गोभी के कई तरह के पकवान बनते हैं। अब रंगीन फूलगोभी से आयोजन की समा अलग होगी। केविक ने अगले सीजन से किसानों को बिछड़ा उपलब्ध कराएगा। क्या है इस गोभी की खासियत? कृषि विज्ञान केंद्र के विशेषज्ञ डॉ. मनीष कुमार बताया कि फिलहाल पीले और बैंगनी

### अगले मौसम से बीज

- केविक में मिलेगा बैंगनी और पीली गोभी के बिछड़े
- अगले मौसम से मिलेगा रंगीन फूलगोभी का बीज

गोभी की सीइस लगाने की तैयारी की गई है। वह एक तरह से प्रयोग कर दिखाया जा रहा है, ताकि इलाके के अन्य किसान भी प्रेरित हों। पीले और बैंगनी रंग की फूलगोभी कई पोषक तत्वों से भरपूर होती है। इसके स्वाद में मीठापन थोड़ा ज्यादा होगा। पोषक तत्वों से होता है भरपूर, बताया कि इसमें विटामिन ए व कैरोटीन पाई जाती है, जो रक्तहीन जैसी बीमारियों से बचाती है। इसमें विटामिन सी भी पाई जाती है। इसमें पाया जाने वाला फाइबर कैल्शियम और

एंटीऑक्सीडेंट बीमारी और वायरल संक्रमण से लड़ने में मदद करता है। इसके साथ ही इसमें कैल्शियम फास्फोरस मैग्नीशियम और जिंक भी होता है, जो हड्डियों को मजबूत बनाता है। उन्होंने बताया कि गर्भवती महिलाओं और बच्चों के लिए यह बहुत ज्यादा फायदेमंद है। कैसे की जाती है खेती: बताया कि सामान्य गोभी की ही तरह इसकी भी खेती की जाती है। इसकी खेती के लिए ठंडी एवं आद्र जलवायु मुफ़ीद होती है। इसके लिए बलुई दोमट मिट्टी बहुत ही उपयुक्त मानी जाती है। सितंबर-अक्टूबर इसे लगाने का सही समय है। बाकी सामान्य गोभी की ही तरह सिंचाई वगैरह की जाती है। यह गोभी बाजार में महंगी कीमत पर बिकता है। ऐसे में यह किसानों के लिए बहुत फायदेमंद होगा।

## अब थाली के स्वाद की खुशबू बढ़ायेगा समर स्ववेश

पीपराकोठी | एक संवाददाता

मिलेगा लाभ

अब लोगों के भोजन की थाली खुशबूदार व पौष्टिकता भरी होगी। प्रचंड गर्मी के समय थाली में समर स्ववेश की सब्जी अपने पौष्टिकता को रीतकरा बिखेरेंगी। कृषि विज्ञान केंद्र ने किसानों को खेती के लिए एक हजार बीज उपलब्ध कराया है। यह गर्मी में अच्छे सेहत के लिए रामबाण का काम करता है।

गर्मी में होने है खेती: चप्पन कटू या समर स्ववेश गर्मियों में शीघ्र उगने वाली एक व्यवसायिक फसल है। जिसकी खेती पौष्टिकता तकनीकी से बाल भरा बा बैसम में भी की जा सकती है। साधारणतया यह फसल गर्मियों की है। लेकिन इसकी मांग बाजार में हमेशा होती रहती है।

इसका बीज हरिणों को बनता है मजबूत: इसका बीज मैग्नीशियम के लिए एक बेहतरीन स्रोत है। जो हड्डियों

- केविक को उपलब्ध कराए गये एक हजार स्ववेश के बीज
- पीली हड्डस में शुरू की गयी इसकी खेती

के निर्माण के लिए महत्वपूर्ण होता है। मैग्नीशियम का सेवन हड्डियों के घनत्व को जोड़ता है। व रजोनिवृत्ति के बाद महिलाओं में ऑस्टियोपोरोसिस के जोखिम को कम करने का काम करता है।

पोषक तत्वों से भरा होता है स्ववेश: यह पोषक तत्व से भरपूर होता है। बीजों के एक औंस में लगभग 151 कैलोरी ऊर्जा और प्रोटीन होता है। इसके अलावा फाइबर, कार्बो, विटामिन, फास्फोरस, मैग्नीशियम, मैग्नीशियम, लोहा, जस्ता, कॉपर, बोरन सारे एंटीऑक्सीडेंट और पौष्टिकता के स्रोत हैं।



केविक विद्या पीली हड्डस में स्ववेश के बीज लगाने में मदद।

राकाहारी रजिनों का विकास जो पौष्टिकता से भरपूर होता है। टिंडा को हलम करना अचानक होता है। क्या करते हैं केविक प्रमुख केविक प्रमुख डॉ. अरविंद कुमार सिंह ने बताया कि एक हजार पीपरा उपलब्ध हुआ है। इससे किसानों को उपलब्ध करने के साथ-साथ पीली हड्डस में खेती भी की जायेगी। बताया कि टिंडा के रूप टिंडा है। इससे प्राप्त अधिक संख्या में फेरे उपलब्ध करने जायेंगे।

## कोरोना से बचाव में बढ़ी जैविक गुड़ की मांग

पीपराकोठी | एक संवाददाता

### केविक में बना है गुड़

- केविक गुड़ प्रसंस्करण केंद्र में बना है जैविक गुड़
- जैविक गुड़ स्वास्थ्य के लिए भी होता है लाभदायक

कोरोना द्वारा चारों ओर मचाए गए त्रहामम में सभी लोग इम्युनिटी बढ़ाने के उपाय ढूंढ रहे हैं। इस बीच लोगों का रुझान एकाएक जैविक गुड़ की ओर हो गई है। कोरोना से बचाव के लिए जैविक गुड़ की मांग बढ़ी है। जो इम्युनिटी बूस्टर का काम करता है केविक गुड़ प्रसंस्करण केंद्र में वैज्ञानिकों ने उन्नत तकनीक से करीब 20 क्विंटल जैविक गुड़ बनाए।

पीपराकोठी एरुगो के गुड़ गुड़ का उत्पादन किया गया। व 250 ग्राम के पैकिंग में 20 रूप प्रै पैकेटों को

उपलब्ध कराया जा रहा है। संबंधित एरुगो अत्यंत दुर्लभ है बताया कि स्टॉक की कोई कमी नहीं है। गुड़ के पोषक तत्वों का खजाना: वैज्ञानिक डॉ. एके सिंह ने बताया कि गुड़ में प्रोटीन, फैट, आयरन, मैग्नीशियम, पोटेशियम

### कहते हैं केविक प्रमुख

केविक प्रमुख डॉ. अरविंद कुमार सिंह ने बताया कि किसानों के मन से बना गुड़ गुड़ रूप से जैविक है। उसका जैविक गुण शरीर में रोग प्रतिरोधक क्षमता बढ़ाने में मदद करता है।

और मैग्नीज होता है। इसके अलावा कुछ मात्रा में विटामिन बी, कैल्शियम, जिंक, फास्फोरस व कॉपर भी होते हैं। गुड़ में लगभग 70 फीसदी सुक्रोस होता है, 10 फीसदी के लगभग लुकोस व फ्रुक्टोस तथा फेसदी खनिज लवण

होते हैं। इसके अतिरिक्त गुड़ में एंटीऑक्सीडेंट्स व सेलेनियम आदि भी पाए जाते हैं। जिसके कारण यह इम्युनिटी बूस्टर का कार्य करता है। रासायनिक गुड़ से होता है बेहतर: वैज्ञानिक नेहा पारेख ने बताया कि केंद्र में बने वाला गुड़ गुड़ जैविक गुड़ है। बताया कि आमतौर पर बाजार में मिलने वाले गुड़ में सल्फर डाईऑक्साइड, फॉस्फोरिक एसिड, फॉर्मिक एसिड तथा क्लॉरिफा पाउडर व सोडियम के योगिक डाले जाते हैं। इससे गर्म के रस में मौजूद सारे पोषक नष्ट हो जाते हैं। इसमें सिर्फ कैलोरी बचती है।

## अगले तीन दिनों तक हल्की बारिश की संभावना

पीपराकोठी. अगले तीन दिनों तक हल्की बारिश की संभावना है. कृषि विज्ञान केंद्र के मौसम वैज्ञानिक नेहा पारीक ने बताया कि 12 मई से 16 मई तक पूर्वानुमान की अवधि में



हल्की से मध्यम बारिश, 15 से 20 किलोमीटर प्रति घंटा के रफतार से हवा चलने की संभावना है. इस अवधि में अधिकतम तापमान 33 से 35 डिग्री सेल्सियस व न्यूनतम तापमान 22 से 24 डिग्री सेल्सियस के बीच रहने का अनुमान है. वहीं सापेक्ष आद्रता सुबह में 70 से 80 प्रतिशत तथा दोपहर में 40 से 50 प्रतिशत रहने की संभावना है जबकि औषतन पुरवा हवा 15 से

20 किमी प्रति घंटा की रफतार से चल सकती है. वहीं केविक प्रमुख डॉ. अरविंद कुमार सिंह ने कहा कि वर्षा होने की संभावना को देखते हुए कृषि कार्य में किसानों को सावधानी बरतने की जरूरत है. खड़ी फसलों में सिंचाई नहीं करने की सलाह दिया और कहा कि कीटनाशक दवाओं का छिड़काव आसमान साफ रहने पर ही करें. वहीं उन्होंने कहा कि खरीफ मक्के की बुआई के लिए किसान खेत की तैयारी करें. खेत की तैयारी के समय 10 से 15 टन गोबर के खाद को डालें और मक्के की बुआई 25 मई से आरंभ करें.



मोतीहारी 23-05-2021

## पीएम के सपनों को केवीके कर रहा साकार : राधामोहन



महिला समूह को मल्टी प्रोसेसिंग प्लांट मशीन सुपुर्द करते पूर्व केंद्रीय मंत्री।

पीपराकोठी। प्रधानमंत्री जी के आत्मनिर्भर भारत का सपना आज केवीके साकार कर रहा है। उक्त बातें पूर्व केंद्रीय कृषि मंत्री मोतीहारी के सांसद राधामोहन सिंह ने महिला समूहों को मल्टी प्रोसेसिंग प्लांट मशीन बितरण के लिए आयोजित कार्यक्रम में कहा। इस दौरान शहरी क्षेत्र के तीन महिला समूह को उक्त मल्टीपर्स प्रोसेसिंग मशीन दी गई। इस एक ही मशीन से मशाला,

आटा, दलरी की पिसाई की जायेगी। जिससे महिलाएं व्यवसायिक लाभ भी उठा सकेंगी। उन्होंने आगे कहा कि आर्य प्रोजेक्ट के तहत महिला व किसान समूहों को प्रशिक्षण देकर बकरी पालन, मशरूम उत्पादन व घुर्गी पालन के क्षेत्र में मदद दिया गया। अब महिला समूहों को बहुदेशीय प्रसंस्करण इकाई मशीन देकर आत्मनिर्भर बनाने का कार्य किया जा रहा है।

# केविके में स्थापित होगा औषधीय व खुशबूदार पौधा डिस्टिलेशन प्लांट

प्रतिनिधि पीपराकोटी

औषधि पौधों की खेती करने वाले किसानों को डिस्टिलेशन के लिए अन्य प्रदेशों का चक्कर नहीं लगाना पड़ेगा। बहुत जल्द पीपराकोटी कृषि विज्ञान केंद्र में औषधीय व खुशबूदार पौधा डिस्टिलेशन प्लांट स्थापित कर दिया जायेगा। उक्त बातें सांसद राधामोहन सिंह ने केविके में औषधीय व खुशबूदार पौधों

के डिस्टिलेशन प्लांट के लिए लाये गये उपकरणों के निरीक्षण के दौरान कही। उन्होंने बताया कि केविके में स्थल का भी निरीक्षण कर लिया गया है जहां स्थापित कर प्लांट को शीघ्र आरम्भ किया जायेगा। उन्होंने कहा कि हजारों किसान औषधीय पौधों की खेती करते हैं व उसके प्रोसेसिंग के लिए गोरखपुर कुशीनगर तक कि लंबी दूरी तय करनी पड़ती थी, जिससे व्यय अधिक होने से

मुनाफा नगण्य होता था। बताया कि इसकी सुविधा अब जिले के किसानों को घर बैठे मिलेगा। बताया कि काउंसिल ऑफ साइंटिफिक एंड इंडस्ट्रियल संस्थान नई दिल्ली व आईआईआईएम जम्मू के सहयोग से लगाया जा रहा है। मौके पर गन्ना विकास मंत्री प्रमोद कुमार, डा लालबाबू प्रसाद, केविके प्रमुख डा अरविंद कुमार सिंह सहित कई कृषि वैज्ञानिक मौजूद थे।

# भूमि की उर्वरता बहाल रखना जरूरी: सांसद

पीपराकोटी | एक संवाददाता



सम्मेलन को वरुंडल रूप में संबोधित करते सांसद राधामोहन सिंह।

भारतीय संस्कृति में पृथ्वी को अत्यंत पावन माना जाता है और इसको आराधना मां के रूप में की जाती है। प्रातः उठते समय जब हम अपने पैरों से धरती को छूते हैं तो हम प्रार्थना करके धरती माता से क्षमा याचना करते हैं। सतत विकास के लिए भूमि की उर्वरता को बहाल करना आवश्यक है। मोदी सरकार ने इसके लिए कई योजनाएं चलायी हैं।

ये बातें विश्व पर्यावरण दिवस के अवसर पर शनिवार को केविके पीपराकोटी के द्वारा आयोजित एक वरुंडल सम्मेलन को संबोधित करते हुए सांसद व पूर्व केन्द्रीय कृषि व किसान कल्याण मंत्री राधामोहन सिंह ने कही। सम्मेलन

मंत्री ने किया पौधरोपण

लखौरा। मोतिहारी प्रखंड के राजकीय प्राथमिक विद्यालय महंगुआ व राजकीय मध्य विद्यालय गजपुरा के प्रांगण में शनिवार को विधि व गन्ना उद्योग मंत्री प्रमोद कुमार ने वृक्षारोपण किया। मंत्री ने कहा कि मुख्यमंत्री नीतीश कुमार द्वारा राज्य में नाला, नहर, अहर, पईन, पोखर और कुआ को सुदृढ़ करने के साथ जलसंयव व संवर्धन की व्यापकता के साथ पौधरोपण अभियान चलाकर पूरे देश में बिहार एक उदाहरण पेश किया है। मौके पर भाजपा जिला अध्यक्ष प्रकाश अस्थाना, डॉ लालबाबू प्रसाद, मदन मोहन सिंह, बीडीओ इंदुबाला सिंह, पीओ राजीव रजन आदि थे। निरस

पूर्व केन्द्रीय मंत्री ने किसानों के बीच किया मल्टीपर्पस प्रोसेसिंग मशीन का वितरण

# आत्मनिर्भर भारत के सपने को साकार करने में पीपराकोटी केविके निभा रहा है अहम भूमिका : राधामोहन

पीपराकोटी (मोतिहारी) | संवाददाता

स्थानीय कृषि विज्ञान केंद्र परिसर में मंगलवार को पूर्व केन्द्रीय कृषि व किसान कल्याण मंत्री सह स्थानीय सांसद राधामोहन सिंह ने किसानों के बीच मल्टीपर्पस प्रोसेसिंग मशीन का वितरण किया। इस अवसर पर पूर्व केन्द्रीय मंत्री श्री सिंह ने कहा कि आत्मनिर्भर भारत के सपने को साकार करने की दिशा में कृषि विज्ञान केंद्र पीपराकोटी अहम भूमिका निभा रहा है।

अध्यक्ष परियोजना के तहत हजारों की संख्या में ग्रामीण युवकों-युवतियों को प्रशिक्षण देकर बकरीपालन, मुर्गीपालन, मछलीपालन, मत्स्यमय उपखाने एवं फूड प्रोसेसिंग में सहायता दी गई है। अब महिलाओं एवं किसानों के समुदाय को

बनाकर मल्टीपर्पस प्रोसेसिंग मशीन भी वितरित किये जा रहे हैं।

उन्होंने कहा कि इस मशीन के द्वारा रातू, बेसन, मसाला इत्यादि तैयार कर पैकिंग करने के बाद मार्केटिंग कर सकते हैं एवं आमदनी बढ़ा सकते हैं। उन्होंने कहा कि आज सात किसान उत्पादक संगठनों को मल्टीपर्पस प्रोसेसिंग मशीन बेंट की गयी।

उनके पूर्व सहकिसान उत्पादक संगठन एवं पांच जीविका समूहों को भी यह मशीन उपलब्ध करायी जा चुकी है। कार्यक्रम की अध्यक्षता केविके प्रमुख डॉ अरविंद कुमार सिंह ने की। मौके पर वैज्ञानिक नेता चरणक, अशु मंगरकार व पौरव कुमार सहित कई वैज्ञानिक व किसान मौजूद थे।



किसानों के बीच मल्टीपर्पस मशीन का वितरण करते पूर्व मंत्री।







## कुलपति ने किया केविके परिवार को सम्मानित



सम्मान समारोह में मौजूद केविके पीपराकोठी के वैज्ञानिक.

### प्रतिनिधि, पीपराकोठी

स्थानीय कृषि विज्ञान केंद्र को देश में कृषि से जुड़े बेहतर कार्य के लिए पुरस्कृत किये जाने पर डा. राजेन्द्र प्रसाद केंद्रीय कृषि विश्व विद्यालय, पुसा, समस्तीपुर द्वारा कृषि विज्ञान केंद्र पीपराकोठी को टीम को सम्मानित किया गया.

सम्मान समारोह में वरीय वैज्ञानिक एवं प्रधान डॉ. अरविंद कुमार तथा सभी वैज्ञानिकों एवं कर्मचारियों को पुष्पगुच्छ एवं शाल भेंट कर कुलपति रमेश चंद्र श्रीवास्तव तथा निदेशक प्रसार शिक्षा डॉ. एमएस कुन्दु एवं उप निदेशक प्रसार शिक्षा डॉ. पुष्पा एवं डॉ. अनुपमा द्वारा सम्मानित किया गया.

राष्ट्रीय स्तर का पुरस्कार प्राप्त करने पर कुलपति डा. श्रीवास्तव ने कृषि विज्ञान केंद्र की टीम को बधाई दी. सम्मान समारोह में उपस्थित सभी अधिष्ठाता तथा निदेशकगण एवं सभी वरीय वैज्ञानिक तथा प्रधान ने भी शुभकामनाएं व्यक्त किया. वहीं यहां के वैज्ञानिकों में हर्ष है.

## यांत्रिक विधि से धान की फसल में करें खर पतवार को नियंत्रित

### प्रतिनिधि, पीपराकोठी

फसलों में खरपतवार की समस्या किसानों के समक्ष बढ़ती जा रही है. धान के फसलों की सुरक्षा में खरपतवार नियंत्रण की समस्या बहुत पाई जाती है. इसके नियंत्रण के लिए कुशलता से उपाय करना अतिआवश्यक है. कृषि विज्ञान केंद्र के वैज्ञानिक, कृषि अभियांत्रिकी, मृदा एवं जल अभियांत्रिकी ई अंशु गंगवार ने बताया कि खेतों में अधिक खरपतवारों के बढ़ जाने से धान के फसलों के गुणवत्ता और पैदावार में भारी गिरावट भी आती है. प्रायः सीधे बोये गए धान से रोपाई किये गए धान की तुलना अधिक नुकसान होता है. सीधे बोये जाने वाले धान 15 से 45 दिन व रोपाई करने वाले धान 30 से 45 दिन का समय

खरपतवार प्रतिस्पर्धा की दृष्टि से नाजुक होता है. जिससे सही समय पर बचाव जरूरी है और यांत्रिक विधि इसके रोकथाम के लिए सरल व प्रभावी विधि है. इस विधि के माध्यम से महज एक ब्याक्ति आसानी से 0.18 हेक्टेयर से 0.3 हेक्टेयर भूमि में मशीन चला सकता है. आज कल पावर पिडर का भी प्रयोग हो रहा है. जो लाइन या एसआरआई विधि से बोई गयी फसल के खरपतवार को नियंत्रित करने में कारगर है. जो प्रति मिनट 30 मीटर तक खरपतवार को नष्ट कर सकती है. धान के फसल में रोपाई के 20 से 25 दिनों में पहली निकाई गुड़ाई करना आवश्यक है. तथा दूसरी बार 40 से 45 दिनों में करना आवश्यक होता है. इससे फसल के पैदावार में काफी वृद्धि होती है.



## देश परम वैभव के शिखर पर होगा स्थापित : राधामोहन



अमृत महोत्सव का उद्घाटन करते भाजपा के राष्ट्रीय उपाध्यक्ष राधामोहन सिंह, खनन व भूतत्व मंत्री जनक राम, विधि मंत्री प्रमोद कुमार व अन्य.

- आजादी के 75वें स्वतंत्रता दिवस पर कृषि अनुसंधान संस्थान में कार्यक्रम आयोजित

### प्रतिनिधि, पीपराकोठी

75 साल हम अपने अधिकार की लड़ाई लड़े और अब 25 साल कर्तव्य की लड़ाई लड़ेंगे. आजादी के 100वें वर्ष में देश परम वैभव के शिखर पर स्थापित होगा. इस संकल्प के साथ हमें कार्य करना है. उक्त बातें सांसद सह पूर्व केंद्रीय कृषि मंत्री राधामोहन सिंह ने महात्मा गांधी समेकित कृषि अनुसंधान संस्थान में आयोजित अमृत महोत्सव के अवसर पर कही. कहा हम भारत की आजादी का अमृत महोत्सव मना रहे हैं. देश की आजादी के लिए हमारे पुरखों ने अपनी जान दे दी. जिसे हम यों ही नहीं देंगे. महोत्सव के दूसरे दिन जिले के विभिन्न प्रखंडों के छह सौ किसानों, पशुपालकों व उद्यमियों को सम्मानित किया. वहीं तीसरे व अंतिम दिन कृषक-वैज्ञानिक संगोष्ठी सह कृषि उपकरण वितरण समारोह का आयोजन किया गया. इस अवसर पर केविके परिसर में पूर्व पीएम अटल बिहारी वाजपेयी की पुण्यतिथि पर नेताओं ने उनके प्रतिमा पर पुष्प अर्पित किया और केविके परिसर स्थित सभागार में किसान सम्मेलन का आयोजन किया गया. श्री सिंह ने कहा कि आजादी के 75 वें महोत्सव के अवसर पर विभिन्न आठ कृषि व्यवसायों से जुड़े 75-75 सेवादाताओं को सम्मानित किया. जिसमें प्रगतिशील किसान, सुग्री पालक, बकरी पालक, महिला कृषि उद्यमी, युवा कृषि उद्यमी, पशुपालक, मशरूम उत्पादक व मधुपालक शामिल हैं. सभी छह सौ लोगों को शॉल भेंट की. वहीं विधि मंत्री प्रमोद कुमार ने कहा कि आज कृषि के क्षेत्र में पीपराकोठी देशभर में विख्यात है, जिसका श्रेय सांसद को जाता है. इसी पीपराकोठी में निलहरी द्वारा किसानों पर अत्याचार के विरुद्ध गांधी जी चंद्रहव्या पर्यं थे. आज

### भाजपा में वंशवाद की जगह नहीं : जनक

पीपराकोठी. बिहार सरकार के खनन व भूतत्व मंत्री जनक राम ने महात्मा गांधी समेकित कृषि अनुसंधान संस्थान में आयोजित अमृत महोत्सव के तीसरे दिन किसानों व अनुसूचित जाति जनजाति के किसानों को संबोधित किया. कहा कि कांग्रेस ने बाबा साहेब भीमराव अंबेडकर के साथ छल किया. उनके राजनीतिक करियर ब्रेक लगाने की भरसक कोशिश की. भाजपा को छोड़कर सभी पार्टियों में वंशवाद का बोलबाला है. कहा कि अनुसूचित जाति जाति जाति मोदी सरकार में प्रत्येक कोने से सुनिश्चित है. एनडीए सरकार को गरीबी रौंदी, कपड़ा व मकान के साथ राजगार भी प्रदान किया. गरीबों के घर को गैस व बिजली की रोशनी से चौकावीध किया. आज सुबे में नीतीश सुग्रीत के नेतृत्व की देन है कि अनुसूचित जाति को पंचायती राज व्यवस्था में अधिकार मिला. जबकि पूर्व की सरकारों ने उगने का काम किया है. कहा कि सरकार आम जनो, गरीब, अनुसूचितों और असहायों को न्याय देने के प्रति कटिबद्ध है. उन्होंने अन्य विपक्षी पार्टियों को निशाना बनाते हुए कहा कि सभी पार्टी वंशवाद से ग्रसित है. सभी कांग्रेस पार्टी के सहपाठी हैं.

वहीं पीपराकोठी किसानों के लिए खरदान साबित हो रहा है. उन्होंने कहा कि केंद्र की पिछली सरकार ने केवल परिवारवाद पर बल दिया लेकिन मोदी सरकार के आने के बाद गरीबों के हित में व राष्ट्र हित में काम हुआ है. मौके पर विधायक श्यामबाबू यादव, सचिन्द्र सिंह, कुष्मन्तन पासवान, प्रकाश अस्थाना, सुनिलमणि तिवारी, अखिलेश सिंह, लालबाबू प्रसाद, मातंग नारायण सिंह, केविके प्रमुख डॉ. अरविंद कुमार सिंह, रविंद्र सिंह, रविन्द्र सिंह, प्रयाग सिंह, दुर्गा सिंह, राजकिशोर सिंह, मो नैरा, राजु सिंह, रविन्द्र सहनी सहित सैकड़ों वैज्ञानिक, किसान मौजूद थे.

## प्रशिक्षण ले आत्मनिर्भर बन रहीं महिलाएं

पीपराकोठी. स्थानीय कृषि विज्ञान केंद्र से क्षेत्र के युवक युवतियां खाद्य प्रसंस्करण एवं फल सज्जियों के संरक्षण विषय पर प्रशिक्षण प्राप्त कर तेजी से आत्मनिर्भरता के दिशा में आगे बढ़ रही हैं. खासकर ग्रामीण क्षेत्रों की महिलाएं व युवतियां प्रशिक्षण प्राप्त करने के बाद गुणवत्ता युक्त खाद्य सामग्री का निर्माण कर रही हैं. इनको केविके पीपराकोठी में आचार, पापड़, सेवई, बड़ी, केला चिप्स, सन्, बेसन, मुरब्बा, जैम, मशरूम, हल्दी, आटा आदि निर्माण का प्रशिक्षण दिया जाता है. और उन्हें समूह के माध्यम से आगे बढ़कर आत्मनिर्भर बनने की प्रेरणा दी जाती है. इससे ग्रामीण महिलाएं व बांचियां लाभान्वित होकर अच्छी कमाई भी कर रही हैं. केविके के सामुदायिक वैज्ञानिक डा नीलम



केविके पीपराकोठी में प्रशिक्षण लेती महिलाएं.

कुमारी ने बताया कि पिछले कुछ माह में जिले के 11 एफपीओ, पांच महिला समूह, आत्मा से जुड़ी महिलाएं, दो जीविका समूह सहित करीब 165 युवक युवतियों ने आर्या परियोजना के तहत खाद्य प्रसंस्करण एवं फल एवं सब्जी का संरक्षण पर प्रशिक्षण लिया है. इसमें

कई फूड प्रोसेसिंग मशीन के माध्यम से 15 से 20 पीसदी मुनाफा कमा भी रही है. कहा कि प्रशिक्षण के लिए कोई खास अहता भी नहीं है. उम्र 35 वर्ष से कम व शिक्षित होना अनिवार्य है. ताकि वे प्रशिक्षण के दौरान बताये गए बातों को आसानी से समझ सकें.



मोतीहारी 28-08-2021

कृषि विज्ञान केंद्र में सामेकित पोषक तत्व प्रबंधन विषय पर प्रशिक्षण कार्यक्रम संपन्न हुआ

## किसानों को उचित जानकारी दें ताकि वे उत्तम तरीके से खेती कर सकें : सहनी

महसूर नुज्ज, पीपराकोठी

स्थानीय कृषि विज्ञान केंद्र में पूर्व से चल रहे सामेकित उर्वरक पोषक तत्व प्रबंधन विषयक 12वें बैच का प्रशिक्षण संपन्न हुआ। वहीं 13 वें बैच का प्रशिक्षण प्रारंभ हुआ। जिसका उद्घाटन मुख्य अतिथि के रूप में उपस्थित संयुक्त निदेशक कृषि, विस्तार प्रमोद कुमार ने किया। वहीं केविके प्रमुख सह प्रधान वैज्ञानिक डा. एक सिंह द्वारा संयुक्त रूप से दी गई प्रवर्तित कर किया गया। कार्यक्रम को संबोधित करते हुए निदेशक श्री सहनी ने कहा कि क्षेत्रों के हमारे किसान भाई सही मायने अज्ञात हैं। उन्होंने प्रशिक्षणों से कहा कि आप जो प्रशिक्षण के दौरान जानकारी प्राप्त कर रहे हैं। उस तकनीक को उचित जानकारी किसानों को दें। ताकि किसान उत्तम ढंग से खेती कर सकें। उनका लगत



कार्यक्रम में भाग लेते प्रशिक्षु और अधिकारी.

खर्च कम हो व अधिक उत्पादन का लाभ मिले। उन्होंने किसानों की आमदनी बढ़ाने पर जोर दिया अन्यथा पानी पर उतार बन नहीं आती। वहीं केविके प्रमुख डा. अरविंद कुमार सिंह ने प्रशिक्षण कार्यक्रमों के रूपरेखा व उद्देश्यों

की विस्तृत जानकारी दी वहीं वहीं केंद्र में चल रहे गतिविधियों पर चर्चा किया गया। इसके पहले केविके प्रमुख डा. प्रमोद अतिथि की सहनी द्वारा स्वागत पुष्प गुच्छा व शॉल भेंट देकर किया गया। उक्त दोनों कार्यक्रमों के मौके पर जिला

कृषि पदाधिकारी, सहयक निदेशक उद्यान, संयुक्त निदेशक, पौधा संरक्षक के अलावा ग्रह वैज्ञानिक डा. नीलम कुमारी, पशुपालन वैज्ञानिक डा. रविन्द्र कुमार रायक, डा. टीपी सहनी, मनीष कुमर, अनन्द कुमार, मौरव कुमार थे।



## गाय पालन एवं प्रबंधन विषय पर तीन दिवसीय प्रशिक्षण की शुरुआत

पीपराकोटी, पूर्वी चंपारण।

स्थानीय कृषि विज्ञान केंद्र के तत्वावधान में ग्रामीण युवक एवं युवतियों के लिए गाय पालन एवं प्रबंधन विषय पर मंगलवार से सोमेश्वर उच्च विद्यालय (+2) अरराज में तीन दिवसीय प्रशिक्षण कार्यक्रम की शुरुआत केंद्र के वरिष्ठ वैज्ञानिक एवं प्रधान डॉ. अरविन्द कुमार सिंह के मार्गदर्शन में की गई। इस कार्यक्रम के मुख्य अतिथि के रूप में विद्यालय सुनील मणि तिवारी मौजूद थे। कार्यक्रम की समीक्षा करते हुए उन्होंने किसानों से अपील की प्रशिक्षण में बताये गए बातों को ध्यान से सुने एवं वैज्ञानिक तरीके से गाय पालन कर अपने रोजगार का अवसर बनाये, जिससे कि आप सभी का आर्थिक एवं सामाजिक उन्नति हो। पशुपालन वैज्ञानिक डॉ. सैलेन्द्र कुमार जंक ने बताया कि गाय पालन आज के समय में एक उद्योग के रूप में विकसित



होना रहा है एवं उनके बेरोजगार युवक-युवतियों को रोजगार प्रदान कर दें। यह कि मांग हमेशा बरकरार रहती है क्योंकि इसकी जरूरत घर-घरों से लेकर बूढ़ों तक होती है।

आगे उन्होंने ने किसानों के बीच गाय पालन के हरेक पहलुओं जैसे कि नस्ल का चुनाव, आहार कि व्यवस्था, आवास कि व्यवस्था तथा बीमारी के प्रबंधन के बारे में विस्तार पूर्वक चर्चा की। उन्होंने बताया कि पूर्वी चंपारण के लिए देशी नस्ल जैसे कि साहीवाल,

गिर, रेडसिन्थ तथा जर्सी जंक कि नस्ल दूध उत्पादन के लिए सबसे उपयुक्त मानी जाती है क्योंकि इस वलावरण में इन सभी नस्ल में कम खर्च में प्रबंधन किया जा सकता है। तथा दूध उत्पाद बढ़ाने हेतु भैस पालन करने का सुझाव दिया। मौके पर कृषि विज्ञान केंद्र के सहायक गौरव कुमार व अजय कुमार, पशुपालक भानु प्रसाद उमेश राउत, अमित तिवारी उमेश चंद गिरि, अनुपमानन्द, शेषनाथ पासवान आदि मौजूद थे।

## उत्पादों को राष्ट्रीय व अंतर्राष्ट्रीय बाजार मिले तो किसान होंगे आत्मनिर्भर



कृषि विज्ञान केंद्र के सभागार में आयोजित किसान सम्मेलन में मौजूद किसान।

प्रतिनिधि, पीपराकोटी

स्थानीय कृषि विज्ञान के सभागार में रविवार को एकजीवों कृषक एवं निवासियों के लिए क्षमता संबंधित कार्यक्रम एवं व्याख्यान सम्मेलन का आयोजन पशुपालन माध्यम से किया गया, जिसमें उन्होंने अपने सहायक गौरव कुमार व अजय कुमार, पशुपालक भानु प्रसाद उमेश राउत, अमित तिवारी उमेश चंद गिरि, अनुपमानन्द, शेषनाथ पासवान आदि मौजूद थे।

वैज्ञानिक डॉ. सैलेन्द्र जंक ने किसानों के बीच कार्यक्रम के गतिविधियों के बारे में अवगत कराया, कार्यक्रम को शुरुआत ईपीएफओ व्याख्यान के द्वारा पशुपालन माध्यम से किया गया, जिसमें उन्होंने अपने सहायक गौरव कुमार व अजय कुमार, पशुपालक भानु प्रसाद उमेश राउत, अमित तिवारी उमेश चंद गिरि, अनुपमानन्द, शेषनाथ पासवान आदि मौजूद थे।

साथ ही इन उत्पादों को राष्ट्रीय एवं अंतर्राष्ट्रीय स्तर पर व्यापार किया जा सकता है, इस प्रकार जल तंत्रिका किसानों को आम बढ़ाने में सहायक सिद्ध होगा और किसान आत्मनिर्भरता की ओर बढ़ेंगे, कार्यक्रम में मिलने के 11 फरवरी के अत्यंत सख्त सलिल कुल 71 कृषकों ने भाग लिया, मौके पर कृषि विज्ञान केंद्र के आरविन्द कुमार सनील कुमार तिवारी आदि मौजूद थे।

## सात नवंबर को पीपराकोटी आयेंगे उपराष्ट्रपति

डीएम व एसपी सहित कूलपति ने तैयारियों का लिया जायजा



पीपराकोटी/पू.च.संवाददाता। डॉ. राजेन्द्र प्रसाद केन्द्रीय कृषि विधि का पीपराकोटी केविक में आयोजित होने वाले दूसरे दीक्षांत समारोह की तिथि में फेरबदल हुआ है। वे 8 नवंबर नहीं बल्कि 7 नवंबर को पीपराकोटी आयेंगे। उपराष्ट्रपति 7 नवंबर को ही दीक्षांत समारोह में शामिल होने के लिए आ रहे हैं। परिचित तिथि को लेकर विरवाविद्यालय के कुलपति डॉ. आरसी श्रीवास्तव, डीएम शीर्षत कापिल अशोक, एसपी नवीन चंद्र झा, एसडीओ सुमन सौरभ यादव,

डीएसपी अरुण गुप्ता ने तैयारियों का जायजा लिया। उन लोगों ने हेलीपैड पर आगमन से संबंधित सभी बिंदुओं की जानकारी ली। जिससे सुझा के कड़े प्रबंध किए जा सकें। बताया जाता है कि दीक्षांत समारोह में 47 छात्र-छात्राओं को गोल्ड मेडल से किया सम्मानित किया जाएगा। जिसमें विरवाविद्यालय के 8 सौ छात्र-छात्राएं व अभिभावक शामिल रहेंगे। वहीं

हजारों लोगों के पहुंचने की संभावना है। इस संबंध में विधि कुलपति डॉ. आरसी श्रीवास्तव ने बताया कि 8 नवंबर को उपराष्ट्रपति के दिल्ली में किसी कार्यक्रम में शामिल होंगे। नतीजतन 7 नवंबर को दीक्षांत समारोह का आयोजन होगा। बता दें कि इस वर्ष मोतीहारी के पीपराकोटी परिसर में दूसरा दीक्षांत समारोह होनेवाला है।

## मोतीहारी 29-09-2021

दैनिक भास्कर

सुगौली • मोतिहारी आसपास

**कार्यक्रम • जलवायु परिवर्तन और तापमान में लगातार हो रही वृद्धि के कारण किसान के साथ खेती भी हो रही है प्रभावित खाद्य आपूर्ति और मांग के बीच अंतर को कम करने के लिए वैश्विक कृषि उत्पादन 2050 तक दोगुना करने की जरूरत**

कृषि विज्ञान केंद्र

कृषि विज्ञान केंद्र के सभागार में आयोजित किसान सम्मेलन में मौजूद किसान।

कृषि विज्ञान केंद्र के सभागार में आयोजित किसान सम्मेलन में मौजूद किसान।

## जलवायु अनुकूल कृषि में काफी लाभकारी है अंतर्वर्ती फसलोत्पादन

पीपराकोटी, खेती में जिस प्रकार दिन-प्रतिदिन जलवायु परिवर्तन एक समस्या बनती जा रही है, खेती योग्य भूमि की उर्वराशक्ति का ह्रास हो रहा है, यदि उपलब्ध संसाधनों में अंतर्वर्ती फसलोत्पादन प्रणाली को अपनाया जाए तो फसल पद्धति की अपेक्षा प्रति इकाई क्षेत्रफल में अधिक लाभ प्राप्त किया जा सकता है, कृषि विज्ञान केंद्र के वैज्ञानिक अंशु गंगवार ने बताया कि फसल पद्धति की अपेक्षा अंतर्वर्ती फसल पद्धति से मुदा स्वास्थ्य को भी बनाये रखने में मदद मिलेगी, अंतर्वर्ती फसलोत्पादन से किसान चाहे तो वर्ष भर आवश्यकतानुसार आमदनी प्राप्त कर सकता है, किसी फसल के बीच में दूसरी फसल को उगाने की विधि को सहफसली शरसन अथवा अंतर्वर्ती

फसल पद्धति कहते हैं, इससे किसान को प्रतिदिन की आवश्यकताओं को पूरा करने में मदद मिल सकती है, अंतर्वर्ती फसल पद्धति यानि सहफसली खेती में मुख्य रूप से दूर-दूर कतारों में बोई गई फसलों के मध्य स्थित रिक्त स्थान, प्रकाश के स्थानीय वितरण, पोषक तत्व, मुदा जल आदि संसाधनों के कुशल उपयोग की अवधारणा निहित होती है, रबी अर्थात् शरद ऋतु में सरसों, मसूर, गेहूँ, आलू, मक्का, गन्ना आदि फसलों को प्रमुखता से उगाया जाता है, इसमें आलू व मक्का को अंतर्वर्ती पद्धति के अंतर्गत लगाने के लिए पहले आलू की एक कतार उसके बाद एक या दो कतार मक्का की, फिर एक कतार आलू उसके बाद एक या दो कतार मक्का की लगानी चाहिए,

## लीफ कलर चार्ट को लेकर किसानों को दी गई प्रशिक्षण



पीपराकोटी, पूर्वी चंपारण।

जलवायु अनुकूल कृषि कार्यक्रम के अंतर्गत चयनित ग्राम माधोपुर गोविंद में सोमवार को किसानों को धान में लगने वाली लागत को कम करने व अधिक मुनाफा प्राप्त करने व लीफ कलर चार्ट के माध्यम से नत्रजन उर्वरक का प्रयोग पर स्थानीय कृषि विज्ञान केंद्र के द्वारा एक दिवसीय प्रशिक्षण सह प्रक्षेत्र परिभ्रमण कार्यक्रम का आयोजन किया गया। जिसमें कृषि वैज्ञानिक डॉ. अंशु गंगवार ने बताया कि धान के फसल के रंग के आधार पर यूरिया के प्रयोग के लिए लीफ कलर चार्ट उपयोग किया जाता है। अधिक यूरिया के प्रयोग से धान के उत्पादन पर बेकार प्रभाव पड़ता है। एवं इसके साथ ही पानी भी लीफ चार्ट के प्रयोग की विधि भी बताई गई। मौके पर रमेश गुप्ता, आशुतोष रंजन, मनीष कुमार, मणि भूषण सिंह, मनोज कुमार, कमलेश ठाकुर व सुनील सिंह आदि लोग मौजूद रहे।



# पूधाम मोतिहारी-रक्सौल प्राकृतिक खेती से जैव विविधता संरक्षण

पीपराकोटी (आससे)। स्थानीय कृषि विज्ञान केंद्र के अटल सभागार में गुरुवार को कृषक गोष्ठी का आयोजन किया गया। कार्यक्रम के मुख्य अतिथि पूर्व केंद्रीय कृषि मंत्री राधा मोहन सिंह मौजूद थे। कार्यक्रम को संबोधित करते हुए पूर्व केंद्रीय कृषि मंत्री श्री सिंह ने किसानों को संबोधित करते हुए कहा कि कृषि को एक ऐसे नए दुर्लभकरण की जरूरत है जो पोषण संपन्न पर्यावरण संयुक्त भी निर्यात और भूमि की उत्पादकता के उद्देश्यों के बीच संतुलन स्थापित करे, प्राकृतिक खेती की रूप में उभरे। प्राकृतिक खेती सभी बाहरी तत्वों के उपयोग को नकारती है और पूरी तरह से मिट्टी की सूक्ष्मजीव आधारित जैव विविधता के संयोजन एवं फसल प्रणाली से संबंधित प्रबंधन पर निर्भर करती है। खेती का यह तरीका जैव विविधता का संरक्षण करता है और पर्यावरण को रासायनिक उदरकों एवं कीटनाशकों के प्रतिकूल प्रभावों से बचाता है, इसे मृदा जैविक कार्यों से



सम्बंधित अवयवों में सुधार करने की दिशा में उद्देश्यपूर्ण परिणाम दिए हैं। प्राकृतिक खेती का सबसे बड़ा कार्यों पृथक्करण कार्यक्रम बनने की क्षमता रखती है, विशेष रूप से हॉल आवरन के साथ मृदा जैविक कार्यों में बढ़ोतरी के जरिए प्राकृतिक खेती सिंचाई में होने वाले पानी के उपयोग में 30 से लेकर 60 प्रतिशत तक कम कर देती है।

ऐसा ही अनुभव रहा है। 11 राज्यों में 6.5 लाख हेक्टेयर भूमि पर प्राकृतिक खेती सफलतापूर्वक की जा रही है वर्तमान में आंध्र प्रदेश और हिमाचल प्रदेश प्राकृतिक खेती को बढ़ावा देने वाले अग्रिम राज्य हैं। यही प्राकृतिक खेती में किसानों के सतत विकास लक्ष्य के पूर्ण के लिए प्राकृतिक खेती के महत्व के सम्बंध में प्रधानमंत्री ने देश के आठ करोड़ किसानों को संबोधित किया। कृषि विज्ञान केंद्र पर हजारों किसानों ने पीएम मोदी का मार्गदर्शन प्राप्त किया, देश के सहकारिता मंत्री अमित साह एवं कृषि मंत्री नरेंद्र सिंह तोमर ने अपना विचार रखा, मौके पर केविक प्रमुख डा. अरविंद कुमार सिंह, कृषि वैज्ञानिक ई. अशु गंगवार, डॉक्टर रमेश कुमार अनिल कुमार सिंह, मनोहर कुमार, आनंद कुमार, गौरव कुमार, विनय कुमार, डा. नीलम कुमार, श्रीमंत वैजंकिण नेहा शारीक, डा. लालबाबू प्रसाद, सहित हजारों किसान एवं कई जीविका दीदी मौजूद थे।



## पीपराकोटी के विकास में अटल जी का महत्वपूर्ण योगदान : प्रमोद



### जयंती पर देश के नामचीन कवियों की काव्यांजलि

पीपराकोटी/पू.च/सं। स्थानीय कृषि विज्ञान केंद्र परिसर में शनिवार को पूर्व पीएम स्व. अटल बिहारी वाजपेयी की जयंती के अवसर पर देश के सुप्रसिद्ध कवियों ने काव्यांजलि प्रस्तुत किया। कार्यक्रम का शुभारंभ पूर्व केंद्रीय कृषि मंत्री राधा मोहन सिंह व गन्ना उद्योग मंत्री प्रमोद कुमार सहित अन्य ने अटल जी की प्रतिमा पर पुष्प अर्पित कर किया। पर्यटन विभाग व जिला प्रशासन के तत्वावधान में आयोजित काव्यांजलि का आरंभ पूर्व केंद्रीय मंत्री राधा मोहन सिंह, गन्ना विकास मंत्री प्रमोद कुमार, सदर एसडीओ सौरभ सुमन यादव ने संयुक्त रूप से दीप प्रज्वलित कर किया। पूर्व केंद्रीय मंत्री श्री सिंह ने कहा कि शक्तिशाली भारत बनाने व देश को परम वैभव तक ले जाने का सपना अटल जी का सपना था, जिसे आज मोदी जी साकार करते नजर आ रहे हैं। उन्होंने कहा कि आज हमें अपने अधिकार तथा कर्तव्य की लड़ाई लड़नी है।

वही गन्ना विकास मंत्री श्री कुमार ने कहा कि पीपराकोटी के विकास में पूर्व प्रधानमंत्री का महत्वपूर्ण योगदान रहा है। आज जो भी पीपराकोटी में दिखाई दे रहा है। वह अटल जी के कृति का जीता जागता उदाहरण है। उसके बाद पर्यटन विभाग एवं जिला प्रशासन के संयुक्त तत्वावधान में केविक परिसर स्थित अटल सभागार में देश के सुप्रसिद्ध कवि शंभू शिखर, अभय सिंह निर्भीक, पद्मिनी शर्मा, मानवीर मधुर ने अपने एक से बढ़कर एक प्रस्तुति को श्रोताओं के बीच परोसकर खूब तालियां बटोरी। मौके पर निदेशक डा. केजी मंडल, केविक प्रमुख अरविंद कुमार सिंह, एसडीओ सौरभ सुमन यादव, बीडीओ मुकेश कुमार, विधायक कृष्णनंदन पासवान, सुनील मणि तिवारी, श्यामबाबू यादव, डा. अंजनी कुमार, प्रकाश अस्थाना, प्रो. डॉ. अरुण कुमार, गणेश सिंह, रविन्द्र सहनी, मुखिया हेमन्त कुमार, राकेश गुप्ता, रवि शंकर श्रीवास्तव, पवन राज तिवारी, गुलारेज शहजाद, संजीव सिंह, डॉ. लालबाबू प्रसाद, कुंदन पासवान, रोहित कुमार सहित कई गणमान्य लोग मौजूद थे।

## हिन्दुस्तान

Dec 24

पश्चिम चंपारण

**बेतिया**  
 पहले बाढ़िया के फरण देरी से हुई आलू की रोपणी, अब पाला लगने से झुलसने लगे फीमे, किसानों ने बड़ी परेशानी घटित

**हिन्दुस्तान**

**जमीन की कोखें चढ़े खेत**  
 09

**जगदीशपुर में आलू की फसल बर्बाद**

**आलू की फसल में झुलसा रोग का कोप**  
 आलू की फसल में झुलसा रोग का कोप

**जगदीशपुर में आलू की फसल बर्बाद**  
 जगदीशपुर में आलू की फसल बर्बाद

**जमीन की कोखें चढ़े खेत**  
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**जगदीशपुर में आलू की फसल बर्बाद**  
 जगदीशपुर में आलू की फसल बर्बाद

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