# PROFORMA FOR ANNUAL REPORT2018-19 (April 2018to March 2019)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Howrah Krishi Vigyan Kendra<br>Jagatballavpur, Howrah, West Bengal<br>PIN: 711408 | 03214-256577 | 03214 -256577 | howrahkvk@gmail.com<br>www.howrahkvk.org |

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

| Address | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Directorate of Extension Education,<br>Bidhan Chandra Krishi Viswavidyalaya,<br>Mohanpur, Nadia, 741252 | 03325876048<br>03473223480<br>03473222274 | 03325870523 | deebckv@gmail.com |

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

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| Dr. Sudipta Banerjee (In-Charge) | | 9933600268 | sudiptaextnn@gmail.com |

1.4. Year of sanction of KVK:

December, 2005 (Sanction vide F. No. 6-4/2002-AE- I dated 19.05.2005)

1.5. Staff Position (**as on 1st April, 2019**)

| 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 | Vacant Since **1st April, 2019** | | | | | | |
| 2 | Subject Matter Specialist | Dr. Sudipta Banerjee | SMS (Agricultural Extension) & In-Charge | M.Sc. (Ag.) Agril. Extension and Ph. D. | 15600-39100 | 29.10.08 | Temporary | General |
| 3 | Subject Matter Specialist | Dr. Biswajit Sarkar | SMS (Agronomy) | M.Sc. (Ag.) Agronomy and Ph. D. | 15600-39100 | 03.11.08 | Temporary | General |
| 4 | Subject Matter Specialist | Mr. Koushik Nag | SMS (Horticulture) | M.Sc. (Hort.) Floriculture & Landscaping | 15600-39100 | 05.11.08 | Temporary | General |
| 5 | Subject Matter Specialist | Dr. Achintya Banik | SMS (Animal Science) | M.V.Sc. (Veterinary Microbiology) | 15600-39100 | 26.05.14 | Temporary | General |
| 6 | Subject Matter Specialist | Mr. Arka Samanta | SMS (Plant Protection) | M.Sc. (Ag.) Agril. Entomology | 15600-39100 | 22.06.18 | Temporary | General |
| 7 | Subject Matter Specialist | Ms. Madhurima Mondal | SMS (Soil Science) | M.Sc. (Ag.) Agril. Chemistry & Soil Sc. | 15600-39100 | 22.06.18 | Temporary | SC |
| 8 | Programme Assistant | Mr. Sudip Raha | Programme Assistant (Lab. Tech.) | M.Sc. (Agril.-Biochemistry) | 9300-34800 | 02.06.14 | Temporary | General |
| 9 | Computer Programmer | Er. Prabodh Kumar Verma | Programme Assistant (Computer) (T4) | M.Tech (Computer Science & Appl.) | 9300-34800 | 31.08.06 | Temporary | General |
| 10 | Farm Manager | Mr. Jayanta Mandal | Farm Manager | M.Sc. (Ag.) Seed Science | 9300-34800 | 22.06.18 | | |
| 11 | Accountant / Superintendent | Mr. Amitava Modak | Assistant | M.Com, MBA (Finance) | 9300-34800 | 31.10.08 | Temporay | General |
| 12 | Stenographer | Fayez Morshed | Stenographer Grade III | B.Com. | 5200-20200 | 05.09.06 | Temporary | General |
| 13. | Driver | Vacant Since **11th October 2017** | | | | | | |
| 14. | Driver | Arfin Sk. | Driver( T1) | VIII | 5200-20200 | 30.08.06 | Temporary | General |
| 15. | Supporting staff | Subhas Bag | Skilled Supporting Staff | Madhyamik Pariksha | 5200-20200 | 30.08.06 | Temporary | SC |
| 16. | Supporting staff | Washim Ali Mondal | Skilled Supporting Staff | Higher Secondary | 5200-20200 | 26.05.14 | Temporary | OBC |

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

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 0.25 |
| 2. | Under Demonstration Units | 0.10 |
| 3. | Under Crops | 5.50 |
| 4. | Orchard/Agro-forestry | 1.28 |
| 5. | Others with details | 1.47 |
| | Total | 8.6 |

*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 | | | | | √ | | Under use | ICAR |
| 2. | Farmers Hostel | | | | | | 305 | Only first floor is being used | ICAR |
| 3. | Staff Quarters (6) | | | | | √ | | Not used | ICAR |
| 4. | Piggery unit | √ | | | | | | | |
| 5 | Fencing | | | | | √ | | Under use | ICAR |
| 6 | Rain Water harvesting structure | √ | | | | | | | |
| 7 | Threshing floor | | | | | √ | | Under use | ICAR |
| 8 | Farm godown | | | | | √ | | Under use | RKVY |
| 9. | Dairy unit | √ | | | | | | | |
| 10. | Poultry unit | | | | | √ | | Under use | RKVY |
| 11. | Goatary unit | | | | | √ | | Under use | ICAR |
| 12. | Mushroom Lab | √ | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 13. | Mushroom production unit | √ | | | | | | | |
| 14. | Shade house | | | | | √ | | Under use | RKVY |
| 15. | Soil test Lab | | | | | √ | | Under Use | ICAR |
| 16 | Others,Please Specify (Hi tech Green House) | | | | | √ | | Under Use | ICAR |
| 17. | Others, Please Specify (Bee Keeping Unit) | | | | | √ | | Under Use | ATMA, Howrah |
| | | | | | | | | | |

* 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 |
|---|---|---|---|---|
| Tata Sumo | 2005-2006 | 4,73,500.00 | 176172 km. | Condemned |
| Tractor | 2006-2007 | 3,60,000.00 | 1815 hr | Operative with regular servicing |
| Motor Cycle | 2015-16 | 59,397.00 | - | Now running at East Midnapore KVK |
| Motor Cycle | 2016-17 | 59,397.00 | 5533 km. | Good condition |

**C) Equipment & AV aids**

**LABORATORY EQUIPMENTS**

| Sl. No | Name of the Equipment | Qty. | Cost |
|---|---|---|---|
| 1. | Micro controller based conductivity meter with cells<br>Cells (1.0 CC & 0.1 CC and temp, probe Model-306 | 1 nos. | 17,480.00 |
| 2. | Micro Controller based PH system with electrode & Temp.Probe.(auto temp. compensation,2 point calibration Resol. 0.01 PH) Model-361 | 1 nos. | 16,378.00 |
| 3. | UV-VIS Digital Spectrophotometer (200-1000nm) Model No-118 | 1 nos. | 94,594.00 |
| 4. | Micro controller based Flame photometer with Na,K filters and compressor. Model-128 | 1 nos. | 51,444.00 |
| 5. | Digital Top loading electronic balance Capacity 600gm accuracy 0.01gm | 1 nos. | 45,083.00 |
| 6. | Digital Top loading electronic balance Capacity 300gm accuracy- 0.01gm | 1 nos. | 22,828.00 |
| 7. | Horizontal shaker. Flask capacity 20pcx250ml (Khan type)Speed Control RPM Indicator | 1 nos. | 22,689.00 |

| | | | |
|---|---|---|---|
| 8. | Desicator size-300mm dia (Borosil) with vacuum rocker | 1 nos. | 4,695.00 |
| 9. | Digital Soil moisture meter | 1 nos. | 10,500.00 |
| 10. | Nephelo Meter/ Turbidity meter Model No-135 | 1 nos. | 19,003.00 |
| 11. | Hand PH Meter | 1 nos. | 1,995.00 |
| 12. | All glass filter Holder-47mm, Filtration Assembly, 1 lit cap Model-5350 | 1 nos. | 8,881.00 |
| 13. | Soil thermometer size-6” | 1 nos. | 1,240.00 |
| 14. | Soil thermometer size-12” | 1 nos. | 1,273.00 |
| 15. | **Hot Air Oven:--** Size-24”x24”x36” inner body S.S. outer body M.S provision of exhaust. Digital temperature regulator control, with wheel movement system | 1 nos. | 18,875.00 |
| 16. | Willy Mill Grinder: intermediate model recommended for grinding of samples fitted with fixed motor; 1/4HP, chamber Size-40mm x25mm (Cast steel chamber) | 1 nos. | 15890.00 |
| 17. | Hot Plate S S (Size-18”x24”) with energy regulator system.(Sunvim regulator) | 1 nos. | 5,600.00 |
| 18. | Digital Top loading electronic balance Accuracy- 1gm Capacity 15kg | 1 nos. | 8,500.00 |
| 19. | Refrigerator (Double door) 240 lit cap | 1 nos. | 18,500.00 |
| 20. | Mono Quartz Distillation Unit(for single and double distilled water),panel Mounted with Quartz Boiler &Boroailicate Condenser, Vertical Model-3363, with power supply 5 lit cap | 1 nos. | 38,477.00 |
| 21. | Fume Chamber made of outer body M.S. shee/Wooden with powder coating inside SS and Covered by asbestos , front of the glass door (5mm) shutter type high capacity suction bowler (1/2 HP Crompton motor) Size-4 ft.x 2 ft.x2.6 ft | 1 nos. | 44,265.00 |
| 22. | Nitrogen Digestion & Distillation with 500 ml. cap. Kjeldhal flask, head& condenser complete set 5 hole cap. Individual on /off switch. | 1 nos. | 2,16,543.00 |
| | **Home Science Laboratory Equipments** | | |
| 23. | Gas Oven (Commercial) | 1 pc | 2000.00 |
| | Hawkins Pressure cooker 8L | 1 pc | 2000.00 |
| 24. | Hawkins Pressure cooker 5L | 1 pc | 1680.00 |
| 25. | Hawkins Pressure cooker 3L | 1 pc | 1220.00 |
| 26. | Mixer Grinder 7500 W | 1 pc | 5000.00 |
| 27. | Chopping Board | 2 pcs | 1000.00 |
| 28. | Induction Oven 2000 W | 1 pc | 3900.00 |
| 29. | Fry Pan Large Size | 1 pc | 1000.00 |
| 30. | Steel Tray Set of 3 different sizes | 2 sets | 2800.00 |
| 31. | Steel Container for Tea | 1 pc | 1700.00 |

| | | | |
|---|---|---|---|
| 32. | Kitchen Spoon set | 1 set | 800.00 |
| 33. | Steel Mashala Container | 6 pcs | 1100.00 |
| 34. | Sos-pan Large size | 1 pc | 1000.00 |
| 35. | *Kadai* with lid large size | 1 pc | 1000.00 |
| 36. | Steel Container of 3 different sizes | 2 sets | 1800.00 |
| 37. | Steel *Handi* large | 1 pc | 3200.00 |
| 38. | Glass made Jar | 6 pcs | 5000.00 |
| 39. | Microwave bowl | 3 pcs | 3300.00 |
| 40. | Mug made by Milton | 6 pcs | 1400.00 |
| 41. | Nonstick spoon set | 1 set | 600.00 |
| 42. | Smasher | 1 pc | 600.00 |
| 43. | Steel *Dekchi* with lid | 1 pc | 2800.00 |
| 44. | Steel *Gamla* | 1 pc | 3000.00 |
| 45. | Steel *Chakni* | 1 pc | 500.00 |

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| **a. Lab equipment (Listed Above) 2012** | | | | |
| Mridhaparikhshak | 2015 | 1,31 ,000 | Running | ICAR |
| STFR Meter Kit Model: WST-3128 | 2018 | 86,000 | Running | ICAR |
| **b. Farm machinery (Listed in Point Number D)** | | | | |
| | | | | |
| | | | | |
| **c. AV AidS** | | | | |
| Display board (1 no.) | 2008-2009 | 1,300.00 | Good | ICAR |
| Tractor parts | | | | |
| Mounted offset 14” x 20” (1 no.) | 2006-2007 | 24,500.00 | Do | ICAR |
| Furrow disk plough (1 no.) | 2006-2007 | 25,000.00 | Do | ICAR |
| Heavy duty blade cum leveler (1 no.) | 2006-2007 | 23,000.00 | Do | ICAR |
| Two wheel non tripping trailer (1 no.) | 2006-2007 | 70,000.00 | Do | ICAR |
| Computer & Camera | | | | |
| ACER Power with 17” LCD monitor (1 no.) | 2006-2007 | 35,096.00 | Non functioning | ICAR |
| Printer HP LZ 1020 (1 no.) | 2006-2007 | 10,096.00 | Good | ICAR |
| UPS 1000 VA MTK (1 no.) | 2006-2007 | 7,211.00 | Non functioning | ICAR |

| | | | | |
|---|---|---|---|---|
| Pen drive (2 no.) | 2006-2007 | 2,884.00 | Non functioning | ICAR |
| Sony DSC H-50/B 9.1 MP digital camera (1 no.) | 2008-2009 | 17,500.00 | Non functioning | ICAR |
| Canon L-14 digital camera (1 no.) | 2008-2009 | 4,850.00 | Do | ICAR |
| 4 GB Sony memory card (1 no.) | 2008-2009 | 2,600.00 | Do | ICAR |
| INTEL Chipset Mother Board (1 no.) | 2008-2009 | 2,750.00 | Do | ICAR |
| 512 MB DDR RAM (1 no.) | 2008-2009 | 936.00 | Do | ICAR |
| 400 watt SMPS | 2008-2009 | 800.00 | Do | ICAR |
| Photocopier (1 no.) | 2009-10 | 68616.00 | Do | ICAR |
| FAX Machine (1 no.) | 2009-10 | 14050.00 | Do | ICAR |
| LCD with Screen | 2010-11 | 97,500.00 | LCD Lamp damaged | ICAR |
| Public Address system | 2010-11 | 24,800.00 | Good | ICAR |
| Generator | 2010-11 | 65,700.00 | Do | ICAR |
| Digital Weighing Machine | 2010-11 | 20,000.00 | Do | ICAR |
| Winnover | 2010-11 | 40,000.00 | Do | ICAR |
| Desktop PC (2 nos.) | 2010-11 | 49,300.00 | 1 Functioning,<br>1 Non-functioning | RKVY |
| Laser Printer | 2010-11 | 5350.00 | Good | RKVY |
| Knapsack sprayer | 2010-11 | 2300.00 | Do | ICAR |
| Foot sprayer (2 nos.) | 2010-11 | 10200.00 | Do | ICAR |
| Pump | 2010-11 | 17500.00 | Do | ICAR |
| Pump set | 2011-12 | 17500.00 | Do | RKVY |
| K Yan community computer | 2011-12 | 89,975.00 | Do | RKVY |
| Desktop PC | 2011-12 | 181990.00 | Do | RKVY |
| Laptop PC | 2011-12 | 41000.00 | Do | RKVY |
| Printer | 2011-12 | 21350.00 | Non Functioning | RKVY |
| Scanner | 2011-12 | 3000.00 | Good | RKVY |
| Microphone | 2011-12 | 45500.00 | Do | RKVY |
| Audio Mixer | 2011-12 | 13050.00 | Do | RKVY |
| Conference room | 2011-12 | 3,44,200.00 | Do | RKVY |
| HP Printer HP 1108 | 2012-13 | 6200.00 | Do | ICAR |
| AC Voltas Platinum 5S1 2nos.) | 2012-13 | 77000.00 | Do | ICAR |
| Desktop PC (5 Nos.) | 2015-16 | 120000.00 | Do | ICAR |
| Printer (2 Nos.) | 2015-16 | 30000.00 | Do | ICAR |

| | | | | |
|---|---|---|---|---|
| Camera Nikon | 2016-17 | 7300.00 | Do | ICAR |
| Camera Sony | 2016-17 | 7900.00 | Do | ICAR |
| Desktop PC HP | 2017-18 | 33500.00 | Do | ATMA |
| Overhead Projector | 2017-18 | 32950.00 | Do | ATMA |
| K-Yan | 2017-18 | 1,18,000.00 | Do | ICAR |
| Printer (2 Nos.) | 2017-18 | 12000.00 | Do | ICAR |
| Split AC 1.5 Ton 1pc | 2017-18 | 1,57,050.00 | Do | ICAR |
| Window Ac 4 pc | 2017-18 | | Do | ICAR |
| Ultra Portable Scanner (Canon P-208) | 2018-19 | 10800.00 | Do | ICAR |
| Kingstone 32 GB Pendrive | 2018-19 | 950.00 | Do | ICAR |
| USB Nouse Logitech | 2018-19 | 300.00 | Do | ICAR |

**D) Farm implements:**

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| Tractor mounted paddy thresher | 2010-11 | 2,15,000.00 | Working | RKVY |
| Brush cutter | 2010-11 | | Do | RKVY |
| Digital weighing machine | 2011-12 | 19000.00 | Do | RKVY |
| Drum seeder | 2011-12 | 3,850.00 | Do | RKVY |
| Sewing machine | 2011-12 | 9,880.00 | Do | RKVY |
| Leaf Colour Chart | 2011-12 | 380.00 | Do | RKVY |
| Nursery tools | 2011-12 | 16100.00 | Do | RKVY |
| Sprinkler set | 2011-12 | 38,900.00 | Do | RKVY |
| Power reaper | 2011-12 | 1,09,720.00 | Do | RKVY |
| Drum Seeder | 2011-12 | 3850.00 | Do | RKVY |
| Mini Tractor | 2015-16 | 275000.00 | Functioning | NHB |
| Fertiliser Spreader | 2015-16 | 90000.00 | Functioning | NHB |
| Vegetable Seedling Transplanter with cultivator | 2015-16 | 240000.00 | Functioning | NHB |

**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. | 19.07.2018 | | In OFT of Tomato, the thematic area | Change made | |

| | | | | | |
|---|---|---|---|---|---|
| | | | would be Integrated Disease Management. | | |
| | | | OFT under Extension on "Assessment of different ICT tools for Information sharing" needs to be recasted in consultation with Extension Department, BCKV | OFT dropped | |
| | | | KVK need to try out some other Submerged Paddy variety besides Swarna SubI under FLD programme. | | |
| | | | Emphasis to be given on Farm Machinery Training for which farmers may be sent to Engineering Department, BCKV as a part of Exposure Visit. | Training conducted | |
| | | | Number of trainees under Rural Youth to be enhanced to minimum 1000 numbers | Trainee Increased | |
| | | | Based on the innovative work carried out by Howrah KVK on NOVCOM compost, a case study to be prepared and to be sent to ATARI for incorporation in ICAR's website. | Case study made | |
| | | | Poultry breed Bonraja to be incorporated under FLD programme in lieu of RIR. KVK should look into the feasibilities to procure quality breeds from University/ICAR/Other sources | Bonraja chicks incorporated in FLD programme | |
| | | | As per need of farming community, KVK is required to set up a small unit of quail birds in KVK's demonstration unit. | Unit developped | |
| | | | Minimum 50000 numbers of fruits/vegetable saplings to be raised by KVK in its own demonstration | Sapling production increased | |

| | | | | | |
|---|---|---|---|---|---|
| | | | unit in forthcoming Rabi Season. | | |
| | | | KVK needs to develop good Crop Cafeteria which will be a show piece when exposure visit of farmers will be held from various blocks. | Plan developed | |

** Salient recommendation of SAC in bullet form*
*Attach a copy of SAC proceedings along with list of participants*

**Proceedings of the 10th Scientific Advisory Committee Meeting**
**Venue: Conference Hall, Howrah KVK, Jagatballavpur**
**Date: 19.07.2018**

**Members Present:**

1. Prof. Srikanta Das, D.E.E, B.C.K.V
2. Dr. F.H. Rahman, Principal Scientist, ICAR, ATARI
3. Dr. Sudipta Mukherjee, Senior Scientist and Head, Howrah KVK
4. Mr. Debasish Datta, ADA (Information), Howrah
5. Mr. Garjen Majhi, ADH, Howrah
6. Dr. Mohusuddin Mukherjee, BLDO, Jagatballavpur, Howrah
7. Dr. Utpalendu Mondal, Asst. Director ARD (D1), Howrah
8. Mr. Tuhin Chattrejee, Producer (F& H), AIR, Kolkata
9. Mr. Ramranjan Dasray, Programme Executive (F&H), AIR, Kolkata
10. Mr. Pabitra Kumar Mondal, Producer (F& H), AIR, Kolkata
11. Mr. Arnnava Roy, Head Programme, DD Bangla

12. Mrs. Sova Naskar, Farmer
13. Mr. Sujay Bera, Farmer
14. Mr. Ranjit Samanta, Farmer
15. Sk. Abdul Hanif, Farmer
16. Ms. Monika Koley, CEO, Srijanee Farmer's Club
17. Mr. Pijus Kanti Das, F & O (TJ)
18. Mr. Tanmoy Mukherjee, District Fishery Officer (Crop, Howrah)
19. Dr. Biswajit Sarkar, SMS (Agronomy), Howrah KVK
20. Mr. Sudip Raha, Programme Assistant (Lab Technician), Howrah KVK
21. Mr. Arka Samanta, SMS (Plant Protection), Howrah KVK
22. Ms. Madhurima Mondal, SMS (Soil Science), Howrah KVK
23. Dr. Sudipta Banerjee, SMS (Agril. Extension), Howrah KVK

**PROCEEDINGS**

Professor Srikanta Das, Director of Extension and Education, BCKV chaired the meeting. Professor Das in his brief speech narrated about objective of SAC meeting and how it can help to develop a suitable working guideline for the KVK. He emphasized to need to carry out extensive sustainable research by KVK as per need of farming community of the district. Professor Das expects that Howrah KVK needs to stress upon balanced fertilizer management, organic farming, Integrated farming.

Dr. F. H. Rahaman, Principal Scientist of ATARI, ICAR, Zone V, Kolkata briefly mentioned about ICAR's initiatives in establishing KVK in all the districts and spearheading agricultural development in the district in convergence with all line departments. Dr. Rahaman opined that KVK should focus to produce quality seed, saplings for the district farming community. He requested DEE, BCKV that Howrah KVK may be permitted to submit a project proposal to RKVY for infrastructural development in respect to Seed processing and laboratory equipments which will facilitate KVK to produce quality seeds and to analyze all micronutrient analysis of soil sample for the beneficiaries.

Dr. Sudipta Mukherjee, Senior Scientist and Head, KVK read out last minutes of SAC which was held on 3/5/2017 and the same was confirmed by the house. Dr. Mukherjee presented action taken report on last SAC, salient achievements during 2017-18 and Action Plan for the year 2018-19. Following observations and suggestions were resolved:

- In OFT of Tomato, the thematic area would be Integrated Disease Management.
- OFT under Extension on "Assessment of different ICT tools for Information sharing**"** needs to be recasted in consultation with Extension Department, BCKV
- KVK need to try out some other Submerged Paddy variety besides Swarna SubI under FLD programme.

- Emphasis to be given on Farm Machinery Training for which farmers may be sent to Engineering Department, BCKV as a part of Exposure Visit.
- Number of trainees under Rural Youth to be enhanced to minimum 1000 numbers
- Based on the innovative work carried out by Howrah KVK on NOVCOM compost, a case study to be prepared and to be sent to ATARI for incorporation in ICAR's website.
- Poultry breed Bonraja to be incorporated under FLD programme in lieu of RIR. KVK should look into the feasibilities to procure quality breeds from University/ICAR/Other sources
- As per need of farming community, KVK is required to set up a small unit of quail birds in KVK's demonstration unit.
- Minimum 50000 numbers of fruits/vegetable saplings to be raised by KVK in its own demonstration unit in forthcoming Rabi Season.
- KVK needs to develop good Crop Cafeteria which will be a show piece when exposure visit of farmers will be held from various blocks.

## -: VIEWS OF MEMBERS:-

**DEPARTMENT OF AGRICULTURE:-**

- Convergence need to be developed with Agriculture department, Howrah for food security and seed subsidy project.
- Farm Machinery can be adopted which is suitable for the Howrah district.40% subsidy may be availed by farmers under Government plan.
- Farmers to be encouraged for Mini Rice Mill for which Government schemes are available.
- KVK to take pivotal role to introduce latest varieties under FLD programme.

**DEPARTMENT OF HORTICULTURE:-**

- Horticulture department may procure quality saplings from KVK. Quantity of saplings to be intimated to KVK by August 2018.
- Horticulture department is keen to supply planting materials to Kitchen gardens in schools through KVK.

**DEPARTMENT OF ANIMAL RESOURCE DEVELOPMENT:-**

- IFS system of cultivation to be replicated to increase the productivity of crop as well as egg and chicks.
- KVK should introduce Bonraja breed under poultry porograame in collaborative mode with ARD, Howrah.
- A project on Azolla may be developed and be submitted to ARD department as a part of crop cafeteria programmein KVK.

**DEPARTMENT OF FISHERY:-**

- Fishery department may undertake joint training programme with KVK for near by blocks.
- KVK may develop carp hatchery for which Fishery Department will render all technical assistance.

**ALL INDIA RADIO:-**

- As a part of extension programe, KVK may send area wise recommendations for various crops to Akashbani, Kolkata.
- More farmers/Scientist interaction may be conducted though All India Radio as a part of problem solving exercise for the benefit of farmers.

**DOORDARSHAN:-**

- Doordarshan will invite KVK scientist in Kishi Darshan programme on regular basis to cater the need of farming community on various disciplines of Agriculture and Allied sciences.
- Doordarshan will also invite progressive farmers who are actively working with Howrah KVK

**REPRESENTATIVE FROM THE FARMERS:-**

- More women farmers to be involved on training programme.
- Pusa Mehek variey of Mustard and Kufri Himalini variety of Potato to up scaled under FLD programme based on the success achieved by KVK in OFT.
- Application of Growth promoters in vegetables to be extrapolated in various blocks.
- Training on Fishery to be emphasized.
- Quality saplings to be produced for vegetables/fruit crops by KVK.
- Farm machineries need to be introduced for Paddy, Pulse crop to reduce cost of production

**ATARI, ICAR:-**

- Appreciated the all round activities of Howrah KVK for which NITY AYOG graded Howrah KVK in ***EXCELLENT*** category after Nity Ayog's visit to Howrah KVK on 30th November' 2017.
- As per mandate of ICAR, KVK is required to observe ICAR Foundation day, National nutrition week (September), Mahila Diwas (15th October), National Veterinary and Fishery day.
- Host Institute is required to take initiative to implement "***Career Advance Scheme***" for KVK staffs at the earliest in consultation with ICAR.

At the outset, Professor Srikanta Das, Chairman of meeting thanked all participants for their active participation and advised Senior Scientist and Head to look into the suggestions devised by ATARI, all line departments, Farmers, Doordarshan, All India Radio, for the benefit of the farming community of the district.

The meeting ended with vote of thanks from Dr. S. Banerjee, SMS (Ag Extension and Education), Howrah KVK .

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

| Sl. no. | Item | Information |
|---|---|---|
| 1 | Major Farming system/enterprise | Rice based farming system<br>Wet land farming system<br>Vegetables<br>Pulses<br>Oilseeds<br>Betel vine<br>Jute<br>Flowers<br>Orchards |

| | | |
|---|---|---|
| | | Sweet water fishes<br>Large ruminants<br>Small livestocks<br>Poultry |
| 2 | Agro-climatic Zone | Gangetic Alluvial Region<br>➢ Covers 5 Blocks viz. Domjur, Jagatballavpur, Panchla, Sankrail and Bally-Jagachha<br>➢ Soil type Loamy & clay loam<br>➢ pH: 6-7.2<br>➢ Water stagnation & inundation during rainy season<br>➢ Rainfall: 1300-1600 mm<br>➢ Major crops: Paddy, sesame, ground nut, green gram, vegetables mustard etc.<br>➢ Cropping intensity: 191%<br>Vindhya Alluvial Region<br>➢ Covers 3 Blocks viz. Amta-I & II and Udaynarayanpur<br>➢ Soil type Loamy & sandy loam<br>➢ pH: 5.5-7.0<br>➢ Flood prone as well as drought prone area<br>➢ Rainfall: 1500-2000 mm<br>➢ Major crops: Paddy, mustard, sesame, ground nut, green gram, vegetables, khesari etc.<br>➢ Cropping intensity: 250%<br>Vindhya Alluvial & Coastal Saline Region<br>➢ Covers 6 Blocks viz. Uluberia I&II, Bagnan I&II and Shyampur I&II<br>➢ Soil type clay & Loamy<br>➢ pH: 5.5-7.5<br>➢ Water stagnation & inundation during rainy season, salinity problem in pockets<br>➢ Rainfall: 1600-1800 mm<br>➢ Major crops: Paddy, sesame, ground nut, green gram, vegetables sunflowers, betel vine, flowers etc.<br>➢ Cropping intensity: 173% |
| 3 | Agro ecological situation | **Gangetic Alluvial Soil:** Highly productive region, though mainly industrial area<br>**Vindhya Alluvial Soil:** Highly productive region, mainly low to medium low land situation, prevailing by rice crop, in high lands vegetables and flowers are grown, some areas are prone to flood |

<table>
<tr><td></td><td></td><td>Coastal Saline Soil: Having salinity problem in some pockets, partially flood prone</td></tr>
<tr><td>4</td><td>Soil type</td><td>Sandy loam to Silty clay loam<br>(a) Up land<br>(b) Medium land<br>Silty clay to clay<br>(a) Low land<br>Soilshere are moderately well drained to imperfectly to somewhat poorly drained, deep and medium to heavy textured. Particularly, in most of the paddy fields soils have argillic horizon. The drained uplands have pH around 5.5 to 6.0, and the medium land 6.0 to 7.0 and the low lands 7.0 to 7.5. These soils have a moderate to good base saturation percentage and they are poor to moderate in total N (0.02 to 0.08 %), total P (0.01 to 0.05%) and total K2O from 0.1 to 0.5 %.<br>Sandy loam to Silty clay loam<br>Sand: 10 – 65%<br>Silt: 10 – 50 %<br>Clay: 20 – 40%<br>Pore space: 45.66 to 35.55%<br>BD: 1.4 g/cm$^3$<br>Soil texture: Moderately coarse to moderately fine<br>Silty Clay to clay<br>Sand: 0 – 20%<br>Silt: 30 – 50 %<br>Clay: 30 – 60%<br>Pore space: 30.45 to 28.41%<br>BD: 1.6 g/cm$^3$<br>Soil texture: Fine to very fine</td></tr>
<tr><td>5</td><td>Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others</td><td>
<table>
<tr><th>Sl.No.</th><th>Name of Crop</th><th>Area (ha)</th><th>Yield rate (kg/ha)</th></tr>
<tr><td rowspan="4">1</td><td>Rice</td><td rowspan="2"></td><td rowspan="2"></td></tr>
<tr><td>a) Autumn</td><td>1,225</td><td>1290 (Cleaned rice)</td></tr>
<tr><td>b) winter</td><td>64,980</td><td>2730 (Cleaned rice)</td></tr>
<tr><td>c) Summer (Boro)</td><td>34,975</td><td>3,465 (Cleaned rice)</td></tr>
<tr><td></td><td>Total Rice</td><td>1,01,180</td><td>-</td></tr>
<tr><td>2</td><td>Wheat</td><td>1344</td><td>1870</td></tr>
<tr><td>3</td><td>Maize(Summer)</td><td>77</td><td>1,015</td></tr>
<tr><td>4</td><td>Gram</td><td>17</td><td>620</td></tr>
</table>
</td></tr>
</table>

| | | | | |
|---|---|---|---|---|
| 5 | Moong (Summer) | 115 | 1025 |
| 6 | Lentil | 123 | 660 |
| 7 | Field Pea (green) | 81 | 1500 |
| 8 | Khesari | 1844 | 850 |
| 9 | Sesame (Summer) | 2,509 | 900 |
| 10 | Rape& Mustard | 2509 | 1076 |
| 11 | Ground Nut (Summer) | 2,366 | 1,850 |
| 12 | Sunflower | 53 | 820 |
| 13 | Jute | 2,230 | 14.7 (Bales) |
| 14 | Sugarcane | 272 | 60,966 |
| 15 | Potato | 5307 | 26.6 |
| 16 | Ginger | 32 | 6,875 |
| 17 | Chilli (Bhadoi) | 146 | #890 |
| 18 | Chilli(Rabi) | 204 | #995 |
| 19 | Coconut | 2,865 | 9,966 |
| 20 | Areca nut | 501 | 2,088 |
| 21 | Turmeric | 118 | 2,992 |
| 22 | Vegetable (summer) | 4685 | 11.90MT |
| 23 | Vegetable (rainy) | 4050 | 12.5MT |
| 24 | Vegetable (winter) | 7235 | 13.45 MT |
| 25 | Flower (All types) | 1425 | 10 MT |
| 26 | Betelvine | 3392 | 1277000lakh mot |
| 27 | Fruits (Total) | 2287 | 9.94MT |

6 Mean yearly temperature, rainfall, humidity of the district

| Month | Rainfall (mm) | Temperature $^{0}$ C | | Relative Humidity (%) |
|---|---|---|---|---|
| | | Maximum | Minimum | |
| April | 52 | 33 | 24 | 79.3 |
| May | 101 | 38 | 26 | 73.7 |
| June | 381 | 33 | 26 | 81.9 |
| July | 248 | 32 | 26 | 86.5 |
| August | 409 | 32 | 26 | 86.2 |
| September | 139 | 30 | 26 | 88.9 |
| October | 400 | 29 | 24 | 88.5 |
| November | 0 | 27 | 18 | 80.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | December | 0 | 23 | 13 | 73.3 |
| | | January | 0 | 22 | 10 | 70.6 |
| | | February | 34 | 26 | 15 | 74.0 |
| | | March | 26 | 39 | 18 | 60.8 |
| 7 | Production of major livestock products like milk, egg, meat etc. | **Category** | **Population** | | **Production** | **Productivity** |
| | | **Cattle** | | | | |
| | | *Crossbred* | 32663 | | | |
| | | *Indigenous* | 254696 | | | |
| | | **Buffalo** | 8895 | | | |
| | | **Sheep** | | | | |
| | | Crossbred | | | | |
| | | *Indigenous* | 370 | | | |
| | | **Goats** | 189344 | | | |
| | | **Pigs** | | | | |
| | | *Crossbred* | 415 | | | |
| | | *Indigenous* | 735 | | | |
| | | **Rabbits** | | | | |
| | | **Poultry** | | | | |
| | | Hen | 788225 | | | |
| | | *Desi* | 443469 | | | |
| | | *Improved* | 344756 | | | |
| | | Duck | 257871 | | | |
| | | Turkey and others | 41 | | | |

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

| Sl. No. | Name of Taluk | Name of the block | Name of the villages | Major crops & enterprises | Major problems identified (crop-wise) | Identified Thrust Areas |
|---|---|---|---|---|---|---|
| 1. | Jagatballavpur | Jagatballavpur | Cluster I<br>Chandul, , **Jhingra,** Bankul, Godaria, Sahapara, Kharapara, Gohalpota, Hazra Para Mansinghapur, **Chhit Santoshpur**, Sialdanga, Shadipara, Batan Telihati Prabhatipur, Uttarmaju, Narendrapur, Nijobalia, Rangmohal, Nimabalia | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, khesari, lentil, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Less crop diversification<br>4. Low productivity of pulse crops due to lack of proper management<br>5. Poor performance of women led backyard production system | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Feeding and health management of livestock and poultry birds<br>8. Better management practices for livestock |
| 2. | Amta-I | Amta-I | Cluster II<br>Napara, Dhurkhali, Sahachak, Balichak, Baje Pratap, Tajpur, Jikhira Bhategori, Monuchalk, Sahachalk, **Putkhali** | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, pulses, fishery & capture fishing | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Poor harnessing of available aquatic | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Introduction of community based quality seeds and planting materials production chain. |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | poultry, cattle, rope and mat making | niches. | 4. Integrated use of waste wet land ecosystem.<br>5. Better management practices for livestock<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |
| 3. | Udaynarayanpur | Udaynarayanpur | Cluster III<br>Monsuka, Kanupat Pancharul Singti, Sukantapark | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Lack of crop diversification<br>4. 4. Low productivity of pulse crops | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |
| 4. | Domjur | Domjur | Cluster IV<br>**Rajapur**, Jhaluar ber, Rudrapur, **Nonakundu**, | Paddy, Jute, Winter and Summer vegetables, mustard, sesame, pulses, mango orchard, goatery, poultry, cattle | 1.Increasing cost of production.<br>2.Lack of availability of quality seeds and planting materials.<br>3.Low return from vegetables<br>4.Low productivity of | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Cultivation of off season vegetables<br>3. Production of community based quality seeds and planting materials.<br>4. Productivity enhancement of summer and kharif pulses.<br>5. Production enhancement of existing |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | pulse crops | crop and livestock enterprise<br>6. Performance improvement of existing backyard based production system<br>7. Income augmentation of resource poor farm women.<br>8. Better management practices for livestock |
| 5. | Bagnan-I | Bagnan-I | Cluster V<br>**Chandrapur**, Rajchandrapur, Joka | Paddy, winter & summer vegetables, flowers | 1. Increasing cost of production.<br>2. Depletion of soil nutrient status<br>3. Low productivity of pulse crops<br>4. Poor performance of women led backyard production system | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6. | Uluberia-I | Uluberia-I | Cluster VI<br>Bahira, kalinagar<br>**Gouripur**<br>Kasipur<br>Hirapur<br>Kajriakhali<br>Dhulsimla | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, betelvine, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Depletion of soil nutrient status<br>3. Low productivity of pulse crops<br>4. Poor performance of women led backyard production system | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |
| 7. | Sankrail | Sankrail | Cluster VII<br>Mahishgot, Chaturbhujkati, Sarenga, Hirapur<br>Kanyamani<br>Ulaa | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Less crop diversification<br>4. Low productivity of pulse crops due to lack of proper management | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 5. Poor performance of women led backyard production system | crop and livestock enterprise<br>7. Feeding and health management of livestock and poultry birds<br>8. Better management practices for livestock |
| 8. | Panchla | Panchla | Cluster VIII Phatikgachhi, Laskarpur, **Bhabanandapur** | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Less crop diversification<br>4. Low productivity of pulse crops due to lack of proper management<br>5. Poor performance of women led backyard production system | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Feeding and health management of livestock and poultry birds<br>8. Better management practices for livestock |
| 9. | Shyampur-I | Shyampur-I | Cluster IX<br>Radhapur, Kamalpur Purulpara, Dankshin Durgapur, **Kalaghatu** | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, betelvine, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Depletion of soil nutrient status<br>3. Low productivity of pulse crops<br>4. Poor performance of women led backyard | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | production system | and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |
| 10. | Shyampur-II | Shyampur-II | Cluster X<br>Narayanpur<br>Chaula | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, sesame, pulses, betelvine, mango orchard, goatery, poultry, cattle | 1. Increasing cost of production.<br>2. Depletion of soil nutrient status<br>3. Low productivity of pulse crops<br>4. Poor performance of women led backyard production system | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Income augmentation of resource poor farm women.<br>3. Production of community based quality seeds and planting materials.<br>4. Diversification of vegetable based production system.<br>5. Productivity enhancement of summer and kharif pulses.<br>6. Production enhancement of existing crop and livestock enterprise<br>7. Performance improvement of existing backyard based production system |
| 11. | Amta-II | Amta-II | Cluster XI<br>Napara,<br>Jaypur, **Tajpur** | Paddy, Jute, Winter and Summer vegetables, Potato, mustard, pulses, fishery & capture fishing poultry, cattle, rope and mat making | 1. Increasing cost of production.<br>2. Lack of availability of quality seeds and planting materials.<br>3. Poor harnessing of available aquatic niches. | 1. Reduction in production cost for rice and vegetable based production systems.<br>2. Introduction of community based quality seeds and planting materials production chain.<br>3. Integrated use of waste wet land ecosystem.<br>4. Better management practices for livestock<br>5. Production enhancement of existing crop and livestock enterprise |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | 6. Performance improvement of existing backyard based production system |

**(b) Details of village adoption programme:**

**Name of the villages adopted by PC and SMS in 2018-19 for its development and action plan**

| Name of village | Block | Action taken for development |
|---|---|---|
| Hazrapara | Jagatballavpur | All the relevant primary data have been collected through PRA and training and demonstrations have been carried out for suitable technology dissemination. |
| Monsuka | Udaynaraynpur | |
| Chandrapur | Bagnan-I | |
| Dhurkhali | Amta -I | |
| Radhapur | Shyampur-I | |

**(c) Sansad Adarsh Gram Yojona**

**i) Name of the village under Sansad Adarsha Gram Yojona:**

Baniban village of Uluberia –II Block was identified by Late Shri Sultan Ahmed, Ex M.P. of Uluberia *Loksabha.*

**ii) Contribution of KVK in the programme:**

Howrah KVK has organized various training programmes on vegetables, plantation crops in Baniban Village.

## 2.1 Priority thrust areas

Resource Management

- Assimilation of Good agronomic
- Providing quality seeds, breeds and planting materials
- Efficient utilization of water resources through improved fishery technique
- Soil health management
- Popularization of improved tools and implements
- Improvement of Backyard system performance

- Widening of agro based Livelihood options
- Improvement of Women led vocation

**Crop Diversification**

- Alternative land use strategies
- Efficient utilization of medium/ low land by cultivation of cereals, oilseeds, pulses etc.
- Efficient utilization of up/medium/ land by cultivation of vegetable, fruits and flowers

Services of Farming Community

- Assurance of service to the farming community by supply of quality and quantity critical inputs viz. seeds/ planting materials/ PPC/ fertilizer/ implements

**BIO- PHYSICAL**

- Low productivity of all major crops
- Inappropriate agronomic practices
- Poor genetic stocks
- Minimum crop diversification
- Poor rate of farm mechanization
- Exploitation of aquatic resources
- Poor performance of backyard systems

**SOCIO- ECONOMIC**

- Very restricted agro based livelihood options
- Lack of formal credit support

## 3. TECHNICAL ACHIEVEMENTS

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

| OFT | | | | FLD | | | |
|---|---|---|---|---|---|---|---|
| No. of technologies tested: | | | | No. of technologies demonstrated: | | | |
| Number of OFTs | | Number of farmers | | Number of FLDs | | Number of farmers | |
| Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |

| | | | SC | | ST | | Others | | Total | | | | | | SC | | ST | | Others | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M | F | M | F | M | F | M | F | T | | | | M | F | M | F | M | F | M | F | T |
| 8 | 8 | 135 | 32 | 10 | 21 | 10 | 62 | 30 | 115 | 50 | 165 | 12 | 20 | 535 | 206 | 91 | 56 | 45 | 269 | 102 | 531 | 238 | 769 |

| 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 |
| 5 | 150 | 3473 | 710 | 351 | 172 | 256 | 2542 | 968 | 3424 | 1575 | 4989 | 450 | 465 | 15000 | 2958 | 1458 | 1750 | 863 | 7091 | 3496 | **11799** | **5817** | **17616** |

| Impact of capacity building | | | | | | | | | | | Impact of Extension activities | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of Participants trained | | Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | | Number of Participants attended | | Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | | |
| Target | Achievement | SC | | ST | | Others | | Total | | | Target | Achievement | SC | | ST | | Others | | Total | | |
| | | M | F | M | F | M | F | M | F | T | | | M | F | M | F | M | F | M | F | T |
| | | | | | | | | | | | | | | | | | | | | | |

| Seed production (q) | | Planting material (in Lakh) | |
|---|---|---|---|
| Target | Achievement | Target | Achievement |
| | | | |

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

* 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 | | | | | | | |
| Seminar/conference/ symposia papers | | | | | | | |
| Books | | | | | | | |
| Bulletins | | | | | | | |
| News letter | | | | | | | |
| Popular Articles | | | | | | | |
| Book Chapter | | | | | | | |
| Extension Pamphlets/ literature | | | | | | | |
| Technical reports | | | | | | | |
| Electronic Publication (CD/DVD etc) | | | | | | | |
| TOTAL | | | | | | | |

**1 Achievements on technologies assessed and refined**

OFT-1

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of nutrient management practices for increasing yield of winter paddy in Howrah district |
| 2. | Problem diagnosed | Low yield of winter paddy due to improper nutrient management(specially N) in paddy |

| | | |
|---|---|---|
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:** Application of lower dose (50:25:25 kg/ha $N:P_2O_5:K_2O$) of fertilizer.<br><br>**Technology Option -1.** Application recommended dose of fertilizers(60:30:30 kg/ha $N:P_2O_5:K_2O$ )<br>1/4N,full P and 2/3 K as basal;1/2 N at 15-20 DAT;1/4 N and 1/3 K at PI stage<br><br>**Technology Option -2.**: Application recommended dose of fertilizers(60:30:30 kg/ha $N:P_2O_5:K_2O$ )<br>full P and 2/3 rd K as basal; N in 4 equal splits at 20 days interval escaping basal one,1/3 rd K during final top dressing with N<br><br>**Technology Option -3:** Application recommended dose of P and K(30:30 kg/ha $P_2O_5:K_2O$ ); full P and 2/3 rd K as basal,1/3 rd K at PI stage and application of N based on NRRI customized leaf colour chart(CLCC) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-NRRI |
| 5. | Production system and thematic area | Rice-mustard-sesame; Crop production |
| 6. | Performance of the Technology with performance indicators | Technology option-3performed well in terms of net return and benefit:cost ratio |
| 7. | Final recommendation for micro level situation | Application recommended dose of P and K(30:30 kg/ha $P_2O_5:K_2O$ ); full P and 2/3 rd K as basal,1/3 rd K at PI stage and application of N based on NRRI customized leaf colour chart(CLCC) for paddy is beneficial for the farmers. |
| 8. | Constraints identified and feedback for research | Farmers are not habituated in using leaf colour chart. |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode . |

## Thematic area: Nutrient management

Problem definition: Low yield of winter paddy due to improper nutrient management (specially N) in paddy

Technology assessed:KVK took up on farm trial to assess the nutrient management ofwinter paddy.. After completion of first year trial it was revealed that technology option -3 performed well as compare to other options in terms of net return and B:C ratio.

***Table: Performance of the nutrient management technology***

| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs./ha) | Net Return (Rs / ha) | BC Ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of effective tillers/hill | No. of spikelet per panicle | Test wt. (g.) | | | | | | |
| **Farmers' Practice:** Application of lower dose (50:25:25 kg/ha N:$P_2O_5$:$K_2O$) of fertilizer. | 6 | 15.9. | 189 | 22.0 | 9.23 | 41.3 | 41,438 | 51,625 | 10,187 | 1.24:1 |
| **Technology Option -1.** Application recommended dose of fertilizers(60:30:30 kg/ha N:$P_2O_5$:$K_2O$ ) 1/4N,full P and 2/3 K as basal;1/2 N at 15-20 DAT;1/4 N and 1/3 K at PI stage | | 20.7 | 245 | 22.2 | 8.74 | 46.6 | 41,890 | 58,250 | 16,360 | 1.39:1 |
| **Technology Option -2.**: Application recommended dose of fertilizers(60:30:30 kg/ha N:$P_2O_5$:$K_2O$ ) full P and 2/3 rd K as basal; N in 4 equal splits at 20 days interval escaping basal one,1/3 rd K during final top dressing | | 21.5 | 276 | 22.3 | 7.79 | 49.5 | 41,890 | 61,875 | 19,985 | 1.47:1 |
| **Technology Option -3:** Application recommended dose of P and K(30:30 kg/ha $P_2O_5$:$K_2O$ ); full P and 2/3 rd K as basal,1/3 rd K at PI stage and application of N based on NRRI customized leaf colour chart(CLCC) | | 21.7 | 278 | 22.3 | 7.75 | 50.7 | 42,478 | 63,375 | 20,897 | 1.50:1 |
| SEm± | | 0.416 | 4.124 | 1.01 | 0.314 | 0.482 | | | | |
| CD(P=0.05) | | 1.297 | 12.86 | NS | NS | 1.503 | | | | |

* If it is related to disease / Insect management scoring to be given
[0-2% = 1; 2-5% = 2; 5-10% = 3; 10-20% = 4; 20-30% = 5; 30-50% = 6; More than 50% = 6]

OFT-2

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of weed management practices for increasing yield of groundnut in Howrah district |
| 2. | Problem diagnosed | Low yield of groundnut due to heavy weed infestation |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:** Hand weeding twice at 20 and 40 DAS<br>.<br>**Technology Option -1**: Pre-emergence application of Pendimethalin@0.75 kg ai/ha+one hand weeding at 20 DAS.<br><br>**Technology Option -2**: : Pre-emergence application of Pendimethalin@0.75 kg ai/ha+Application of Imazethapyr 10 SL @ 75 g ai/ha at 15 DAS.<br><br>**Technology Option -3:**. Use of straw mulch |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BCKV |
| 5. | Production system and thematic area | potato-Groundnut,weed management |
| 6. | Performance of the Technology with performance indicators | Technology option-2 performed well in terms of net return and benefit:cost ratio |
| 7. | Final recommendation for micro level situation | Pre-emergence application of Pendimethalin@0.75 kg ai/ha+Application of Imazethapyr 10 SL @ 75 g ai/ha at 15 DAS was beneficial for better weed management and economic return in groundnut. |
| 8. | Constraints identified and feedback for research | Imazethapyr is not readily available |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode . |

## Thematic area: Weed management

Problem definition: Low yield of groundnut due to heavy weed infestation

Technology assessed: KVK took up on farm trial to assess the weed management in groundnut. After completion of two year trial it was revealed that technology option -2 performed well as compare to other options in terms of net return and B:C ratio.

***Table: Performance of the weed management technology***

| Technology option | No. of trials | Total weed density/$m^2$ | Weed biomass($g/m^2$) | Weed control efficiency(%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs./ha) | Net Return (Rs / ha) | B:C Ratio |
|---|---|---|---|---|---|---|---|---|---|
| **Farmers' Practice:** Hand weeding twice at 20 and 40 DAS | 6 | 35.6 | 16.3 | 85.6 | 34.3 | 39,315 | 92,610 | 53,295 | 2.35:1 |
| **Technology Option -1**: Pre-emergence application of Pendimethalin@0.75 kg ai/ha+one hand weeding at 20 DAS. | | 43.8 | 18.0 | 83.9 | 33.5 | 36,370 | 90,450 | 54,080 | 2.49:1 |
| **Technology Option -2**: : Pre-emergence application of Pendimethalin@0.75 kg ai/ha+Application of Imazethapyr 10 SL @ 75 g ai/ha at 15 DAS. | | 44.2 | 18.3 | 83.7 | 33.4 | 34,970 | 90,180 | 55,210 | 2.58:1 |
| **Technology Option -3:**. Use of straw mulch | | 48.6 | 23.8 | 80.1 | 31.3 | 34,160 | 84,510 | 50,350 | 2.47:1 |
| SEm+ | | 0.742 | 0.597 | | 0.279 | | | | |
| CD(P=0.05) | | 2.310 | 1.862 | | 0.870 | | | | |

# OFT-3

| | | |
|---|---|---|
| **1.** | **Title of On farm Trial** | **Assessment of performance of different chemicals against bacterial wilt of tomato** |
| 2. | Problem diagnosed | Crop loss because of bacterial wilt |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:** Indiscriminate use of chemicals against bacterial wilt.<br>**Technology Option -1:** Use of Neem Cake @ 20 gm/plant during soil preparation followed by spraying of Streptomycin (45mg) + Tetracycline (5mg)/ lt twice during flowering stage at 15 days interval.<br><br>**Technology Option -2:**Soil drenching with Nano-silver hydrogen-peroxide @ 4ml/lt (50 ml solution/plant) at 40,55,70,85 DAT. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BCKV |

| | | |
|---|---|---|
| 5. | Production system and thematic area | Tomato is cultivated as a irrigated crop in high to medium land situation, Integrated Nutrient Management |
| 6. | Performance of the Technology with performance indicators | Performance is satisfactory so far. |
| 7. | Final recommendation for micro level situation | |
| 8. | Constraints identified and feedback for research | Initially there were a little bit problems during application of hydrogen-peroxide for its irritation on skin; later farmers became careful during the mixing of chemicals with water. |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode. |

*Thematic area:***Integrated Disease Mangement**

Problem definition: Crop loss because of bacterial wilt

Technology assessed:

**Table:**

| **Technology option** | **No. of trials** | **Bacterial wilt affected plants** | **Yield(q/ha)** | **Cost of cultivation(Rs./ha)** | **Gross return (Rs/ha)** | **Net return(Rs./ha)** | **BC ratio** |
|---|---|---|---|---|---|---|---|
| **Farmers' Practice:** Indiscriminate use of chemicals against bacterial wilt. | 7 | 16% | 278.26. | 125750 | 225380 | 99630 | 1.79 |
| **Technology Option -1:** Use of Neem Cake @ 20 gm/plant during soil preparation followed by spraying of Streptomycin (45mg) + Tetracycline (5mg)/ lt twice during flowering stage at 15 days interval | | 8.5% | 355.50 | 128580 | 285750 | 157170 | 2.22 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Technology Option -2:**Soil drenching with Nano-silver hydrogen-peroxide @ 4ml/lt (50 ml solution/plant) at 40,55,70,85 DAT. | | 3% | 405.50 | 138550 | 338550 | 200000 | 2.44 |
| SEm+ | | | 5.48 | | | | |
| CD(P=0.05) | | | 17.14 | | | | |

**OFT-4**

| | | |
|---|---|---|
| 1. | **Title** | **Assessment of growth regulators on productivity of chili** |
| 2. | Problem diagnosed | Lower yield due to excessive flower and fruit drop |
| 3. | Details of technologies selected for assessment/refinement | **Farmers' Practice:** Indiscriminate or non-use of growth regulator.<br>**Technology Option -1:** Spraying of NAA @ 20 ppm thrice at 15 days interval starting from the time of first flower opening<br><br>**Technology Option -2:** Spraying of NAA @ 20 ppm + Sea Weed Extract @ 1.25 ml/lt thrice at 15 days interval starting from the time of first flower opening |
| 4. | Source of Technology | BCKV |
| 5. | Production system and thematic area | Chili during rabi-summer, Nutrient Management |
| 6. | Performance of the Technology with performance indicators | Performance is satisfactory so far. |
| 7. | Final recommendation for micro level situation | Yet to come |
| 8. | Constraints identified and feedback for research | No constraints so far |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode. |

*Thematic area:* **Nutrient management**

Problem definition: Lower yield due to excessive flower and fruit drop.

| **Technology option** | **No. of trials** | **Yield component** | | | **-** | **Yield (q/ha)** | **Cost of cultivation (Rs./ha)** | **Gross return (Rs/ha)** | **Net return (Rs./ha)** | **BC ratio** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Percentage of flower drop | | **Flowering span (days)** | | | | | | |
| **Farmers' Practice:** Indiscriminate or non-use of growth regulator. | 7 | 25 | | 48 | | 105 | 88500 | 175500 | 87000 | 1.98 |
| **Technology Option -1:** Spraying of NAA @ 20 ppm thrice at 15 | | 17 | | 56 | | 133 | 91500 | 198500 | 107000 | 2.16 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| days interval starting from the time of first flower opening | | | | | | | | | | |
| **Technology Option -2:** Spraying of NAA @ 20 ppm + Sea Weed Extract @ 1.25 ml/lt thrice at 15 days interval starting from the time of first flower opening | | 11 | | 65 | | 151 | 92300 | 225000 | 132700 | 2.43 |
| SEm+ | | | | | | 4.81 | | | | |
| CD(P=0.05) | | | | | | 14.99 | | | | |

# OFT-5

| | | |
|---|---|---|
| 1. | Title of On farm Trial | **Assessment of the method of application of zinc sulphate to combat *khaira* disease and to increase the yield of boro paddy in medium to low land situation of Howrah district.** |
| 2. | Problem diagnosed | Low productivity due to *Khaira* disease in medium to low land paddy |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:**Application of indiscriminate amount of NPK with no use of zinc<br>**Technology Option -1:** Recommended dose of fertilizer (N:$P_2O_5$:$K_2O$::120:60:60 kg/ha) + zinc sulphate heptahydrate @ 25kg/ha as basal application<br>**Technology Option -2:**Recommended dose of fertilizer (N:$P_2O_5$:$K_2O$:: 120:60:60 kg/ha) + zinc sulphate heptahydrate @ 5g/l as foliar application at 20 DAT and 45 DAT<br><br>**Technology Option -3:** Recommended dose of fertilizer (N:$P_2O_5$:$K_2O$:: 120:60:60 kg/ha)+ seed treatment with 2% zinc sulphate heptahydrate solution for 6 hours. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BCKV |
| 5. | Production system and thematic area | Rice – Rice – Vegetables based production system<br>Nutrient management |
| 6. | Performance of the Technology with performance indicators | Performance is satisfactory so far |

| | | |
|---|---|---|
| 7. | Final recommendation for micro level situation | Yet to come |
| 8. | Constraints identified and feedback for research | No constraints so far |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode |

## *Thematic area:* Nutrient Management

Problem definition: Low productivity due to *Khaira* disease in medium to low land paddy

Technology assessed: Different methods of application of zinc sulphate heptahydrate

Table:

| Technology option | No. of trials | Yield component | | | No. of affected plants/$m^2$ | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of effective tillers/$m^2$ | No. of spikelet per panicle | Test wt. (1000 grain wt.) | | | | | | |
| **FP:** Application of indiscriminate amount of NPK with no use of zinc | 6 | 180.5 | 280.5 | 22.0 | 4-6 | 42.7 | 52250 | 68320 | 16070 | 1.30 |
| **TO-I:** Recommended dose of fertilizer ($N:P_2O_5:K_2O$::120:60:60 kg/ha) + zinc sulphate heptahydrate @ 25kg/ha as basal application | | 191.0 | 286.2 | 22.1 | 0-1 | 48.4 | 53600 | 77440 | 23840 | 1.44 |
| **TO-2:**Recommended | | 186.0 | 304.8 | 22.4 | 0 | 52.5 | 53250 | 84000 | 30750 | 1.57 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| dose of fertilizer ($N:P_2O_5:K_2O$:: 120:60:60 kg/ha) + zinc sulphate heptahydrate @ 5g/l as foliar application at 20 DAT and 45 DAT | | | | | | | | | | |
| **TO-3:** Recommended dose of fertilizer ($N:P_2O_5:K_2O$:: 120:60:60 kg/ha)+ seed treatment with 2% zinc sulphate heptahydrate solution for 6 hours. | | 183.5 | 284.0 | 22.2 | 0-2 | 47.6 | 53100 | 76160 | 23060 | 1.43 |
| SEm± | | 1.03 | 5.03 | 0.86 | | 1.234 | | | | |
| CD (P=0.05) | | 3.193 | 15.593 | 2.666 | | 3.850 | | | | |

# OFT-6

| | | |
|---|---|---|
| 1. | Title of On farm Trial | **Assessment of performance of different insecticides to control mustard aphid in medium land situation of Howrah district.** |
| 2. | Problem diagnosed | Injudicious application of pesticides for controlling aphids. |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:**Application of either Dimethoate or Oxydemeton methyl or Triazophos in indiscriminate manner.<br>**Technology Option -1:** Azadirachtin 10000 ppm @ 1.5 ml/l alternate with difenthiuron 17.8 SL @ 0.3 ml/l at 15 days interval<br><br>**Technology Option -2:**Azadirachtin 10000 ppm @ 1.5 ml/l alternate with (**acephate 50% + imidacloprid 1.8%SP)** at 15 days interval |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | B.C.K.V. |
| 5. | Production system and thematic area | Rice – Mustard – Rice based production system |
| 6. | Performance of the Technology with performance indicators | Technology Option -2 is the most effective than the other options |

| | | |
|---|---|---|
| 7. | Final recommendation for micro level situation | Yet to come |
| 8. | Constraints identified and feedback for research | No constraints so far |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode |

## *Thematic area: Integrated pest Management*

**Problem definition:** Farmers very much rely on Chemical insecticides to control aphids**.**

**Technology assessed:** Assessment of impact of Combination of *Neem* (a general repellent of insect pests) based insecticides with chemical insecticides on the population of aphids in mustard.

**Table:**

| **Technology option** | **No. of trials** | **Yield component** | | | **Disease/ insect pest incidence (%)** | **Yield (q/ha)** | **Cost of cultivation (Rs./ha)** | **Gross return (Rs/ha)** | **Net return (Rs./ha)** | **BC ratio** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | **Plant/ $m^2$** | **Siliqua / plant** | **Seed/ Siliqua** | | | | | | |
| **Farmers' Practice:**Application of either Dimethoate or Oxydemeton methyl or Triazophos in indiscriminate manner | 7 | 30 | 67 | 20 | 15 | 8.5 | 4333.00 | 7583.00 | 3250.00 | 1.75 |
| **Technology Option -1:** Azadirachtin 10000 ppm @ 1.5 ml/l alternate with difenthiuron 17.8 SL @ 0.3 ml/l at 15 days interval | | 30 | 71 | 25 | 11 | 11.2 | 4626.00 | 9576.00 | 4950.00 | 2.07 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Technology Option -2:**Azadirachtin 10000 ppm @ 1.5 ml/l alternate with (**acephate 50% + imidacloprid 1.8%SP)** at 15 days interval | | 31 | 74 | 26 | 7 | 11.3 | 4500.00 | 9450.00 | 4950.00 | 2.1 |
| SEm± | | | | | | 1.802 | | | | |
| CD (P=0.05) | | | | | | 5.55 | | | | |

# OFT-7

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of multi strain probiotics and multi mineral mixture feed supplement as growth promoters in Black Bengal goats |
| 2. | Problem diagnosed | Low trend of growth performance |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice (FP):** Natural foraging with concentrate feed mixture (200 gm) supplement without any probiotics or mineral mixture<br><br>**Technology Option-I:** Natural foraging with concentrate feed mixture (200 gm) supplemented with multi strainprobiotics @ 10 gm daily.<br><br>**Technology Option-II:** Natural foraging with concentrate feed mixture (200 gm) supplemented with multi mineral mixture@ 10 gm daily.<br><br>**Technology Option-III:** Natural foraging with concentrate feed mixture (200 gm) supplemented with bothmulti strainprobiotics@ 5 gm daily&multi mineral mixture @ 5 gm daily. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR |

| | | |
|---|---|---|
| 5. | Production system and thematic area | Semi – Intensive, Livestock Production and Management |
| 6. | Performance of the Technology with performance indicators | On going trial |
| 7. | Final recommendation for micro level situation | NA |
| 8. | Constraints identified and feedback for research | NA |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode |

## *Thematic area:*

**Problem definition:**Poor growth and less weight gain

**Technology assessed:** Multi strain probiotics and multi mineral mixture feed supplement as growth promoters

**Table:** Assessment of multi strain probiotics and multi mineral mixture feed supplement as growth promoters in Black Bengal goats (Upto 31st March, 2019)*

| Technology options | No. of trials | Production components | | | Disease incidence (%) | Average Body Weight gain after three months (Kg/Goat) | Cost of production (Rs./Goat) | Gross return (Rs./Goat) | Net return (Rs./Goat) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Average Body Weight after one month (Kg/Goat) | Average Body Weight after two months (Kg/Goat) | Average Body Weight after three months (Kg/Goat) | | | | | | |
| **FP:** Natural foraging with concentrate feed mixture (200 gm) supplement without any probiotics or mineral mixture | | 5.23 | 6.11 | | | | | | | |
| **TO-I:** Natural foraging with concentrate feed mixture (200 | | 5.89 | 6.95 | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| gm) supplemented with multi strainprobiotics @ 10 gm daily. | 6 | | | | | | | | | |
| **TO -II:** Natural foraging with concentrate feed mixture (200 gm) supplemented with multi mineral mixture@ 10 gm daily. | | 5.93 | 7.25 | | | | | | | |
| **TO -III:** Natural foraging with concentrate feed mixture (200 gm) supplemented with bothmulti strainprobiotics@ 5 gm daily&multi mineral mixture @ 5 gm daily. | | 6.05 | 7.29 | | | | | | | |
| SEm+ | | | | | | | | | | |
| CD(P=0.05) | | | | | | | | | | |

**Results: OFT is going on**

# OFT-8

| | | |
|---|---|---|
| 1. | Title of On farm Trial | **Assessment of role of farmwomen for improving adoption percentage of technology disseminated through Training.** |
| 2. | Problem diagnosed | Male dominance in participation of training programme. Low adoption percentage of modern technologies among the farmers |
| 3. | Details of technologies selected for assessment/refinement<br>(Mention either Assessed or Refined) | **Farmers' Practice:** General awareness of the technology through print media<br>**Technology Option -1:** Technology disseminated through training to the male farmers<br>**Technology Option -2:** Technology disseminated through training to the female farmers<br>**Technology Option -3:** Technology disseminated through training to the farmer couples (both husband and wife) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BCKV |
| 5. | Production system and thematic area | Rice- Mustard- Sesame production system<br>Gender dimension |

| | | |
|---|---|---|
| 6. | Performance of the Technology with performance indicators | Performance is satisfactory so far |
| 7. | Final recommendation for micro level situation | Technology disseminated through training to the farmer couples (both husband and wife) provides better adoption percentage |
| 8. | Constraints identified and feedback for research | No constraints so far |
| 9. | Process of farmers participation and their reaction | Farmers participated in collaborative mode |

## *Thematic area:* Gender Dimension

Problem definition: Low adoptability of male farmers in various aspects of package of practices

Technology assessed: Adoptability of technologies exposed to the farm family as a whole.

Table:

| Technology option | No. of trials | Monitoring Indicator | | Remarks |
|---|---|---|---|---|
| | | Improvement in knowledge and skill (%) | adoption percentage | |
| **Farmers' Practice:** General awareness of the technology through print media | 30 | 10 | 5 | |
| **Technology Option -1:** Technology disseminated through training to the male farmers | 30 | 70 | 33 | |
| **Technology Option -2:** Technology disseminated through training to the female farmers | 30 | 60 | 20 | |

| | | | | |
|---|---|---|---|---|
| **Technology Option -3:** Technology disseminated through training to the farmer couples (both husband and wife) | 30 | 65 | 50 | |

### 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 | |
| 1. | Paddy | Crop production | Cultivation practices of paddy with var. swarna Sub-1 under low land water logged condition | 15 | 16 | 8 | 3 | 1 | 0 | 75 | 2 | 84 | 3 | 87 | |
| 2. | Winter Paddy | Integrated Disease Management | Sheath blight management of paddy | 5.0 | 5.0 | 4 | 1 | 2 | 1 | 29 | 3 | 35 | 5 | 40 | |
| 3. | Summer Paddy | Integrated Disease Management | Blast management of paddy | 10.0 | 10.0 | 15 | 6 | 7 | 2 | 23 | 7 | 45 | 15 | 60 | |
| 4. | Summer Paddy | Integrated Pest Management | yellow Stem borer management of | 5.0 | 5.0 | 5 | 2 | 2 | 0 | 25 | 6 | 32 | 8 | 40 | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | paddy | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

**Details of farming situation**

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | $P_2O_5$ | $K_2O$ | | | | | |
| Winter paddy | Kharif-2018 | Rainfed | Silty clay loam | 244 | 34 | 2210 | Sesame | 14.08.18-17.08.18 | 05.12.18-09.12.18 | | |
| Winter Paddy | Kharif-2018 | Rainfed | Clay loam | 190.54 | 20.80 | 240.12 | Sesame | 01.07.18-10.07.18 | 19.11.19 | | |
| Summer Paddy | Rabi 2018-19 | Irrigated | Clay loam | 196.08 | 22.89 | 242.32 | Winter Paddy | 04.01.19 | 06.05.19 | | |
| Summer Paddy | Rabi 2018-19 | Irrigated | Clay loam | 208.65 | 24.32 | 245.02 | Winter Paddy | 10.01.19 | 15.05.19 | | |

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

| Crop | Thematic Area | Name of the technology | No. of | Area (ha) | Yield (q/ha) | % Incre | *Economics of demonstration (Rs./ha) | *Economics of check (Rs./ha) |
|---|---|---|---|---|---|---|---|---|

| | | demonstrated | Farmers | | Demo | Check | ase | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mustard | Crop diversification | Seed treatment,boron and sulphur management as well as pest disease management | 28 | 10 | 12.6 | 9.8 | 28.6 | 21540 | 56700 | 35160 | 2.63:1 | 18420 | 44100 | 25680 | 2.39:1 |
| Groundnut | Nutrient management | Application of gypsum | 40 | 5 | 38.2 | 31.7 | 20.5 | 40,100 | 1,22,800 | 82,780 | 3.06:1 | 37,300 | 91,530 | 54,230 | 2.45:1 |
| Total | | | 68 | 15 | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Pulses
Frontline demonstration on pulse crops

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

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lentil | Crop diversification | Seed treatment with T. Viridae,Seed inoculation with Rhizobium, ,Application of boron , sulphur as well as pest and disease management | 71 | 10 | 9.2 | 6.1 | 50.8 | 16750 | 47840 | 31100 | 2.86:1 | 14300 | 31720 | 17420 | 2.21:1 |
| Greengram | Crop diversification | Seed treatment with T. Viridae , seed inoculation with rhizobium , ,boron and sulphur management along with pest management | 129 | 30 | 10.5 | 7.4 | 41.9 | 19,540 | 52,500 | 32,960 | 2.69:1 | 17,230 | 36,260 | 19,030 | 2.10:1 |
| Lentil | Use of organic inputs | Application of PSB | 40 | 5 | 9.4 | 6.8 | 38.23 | 16750 | 47840 | 31100 | 2.86:1 | 14300 | 32720 | 18420 | 2.28:1 |
| | **Total** | | **240** | **45** | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other crops

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

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Winter paddy | Crop production | Cultivation practices of paddy with var. swarna Sub-1 under low land water logged condition | 87 | 15 | 54.1 | 49.2 | 9.96 | | | 42,650 | 70,330 | 27,680 | 1.64:1 | 41,980 | 63,960 | 21,980 | 1.52:1 |
| Potato | Crop production | Cultivation practices of Potato (var.K. Himalini) under medium land condition | 24 | 0.8 | 375 | 350 | 7.14 | | | 131250 | 206250 | 75000 | 1.57:1 | 129500 | 154000 | 24500 | 1.19:1 |
| Elephant foot yam | Crop diversification | Introduction of Bidhan Kusum variety of EFY | 35 | 0.4 | 545 | 348 | 56.61 | | | 206587.5 | 615850 | 409262.5 | 2.98 | 189750 | 435000 | 245250 | 2.29 |
| Colocasia | Crop diversification | Introduction of Bidhan Chaitanya variety of colocasia | 15 | 0.27 | 195.5 | 161 | 21.43 | | | 125625 | 342125 | 216500 | 2.72 | 116250 | 248000 | 131750 | 2.13 |
| Turmeric | Crop diversification | Introduction of Suguna variety of Turmeric | 10 | 0.27 | 140 | 110 | 27.28 | | | 125000 | 280000 | 155000 | 2.24 | 105000 | 204500 | 99500 | 1.94 |
| Ginger | Crop diversification | Introduction of Gorubathan variety of ginger | 10 | 0.27 | 135 | 105 | 28.57 | | | 135000 | 295000 | 160000 | 2.18 | 114000 | 215000 | 101000 | 1.89 |
| Tomato | Nutrient Management | Application Ca to prevent tomato blossom end rot | 10 | 0.33 | 468 | 342 | 36.84 | | | 86250 | 187200 | 100950 | 2.17 | 82500 | 140220 | 57720 | 1.70 |
| Cucumber | Nutrient Management | Application of $GA_3$ as growth regulator | 20 | 1.0 | 225 | 175 | 28.57 | | | 93750 | 258750 | 165000 | 2.76 | 92250 | 188125 | 95875 | 2.04 |
| Cauliflower | Micro nutrient deficiency in crops | Application of Mo and B | 20 | 2 | 195.5 | 165 | 18.48 | 2% | 21% | 135000 | 293250 | 158250 | 2.17 | 123750 | 225000 | 101250 | 1.82 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Winter Paddy | Integrated Disease Management | Sheath blight management of paddy | 40 | 5 | 54.2 | 49.2 | 10.16 | | | 48,350 | 81300 | 32950 | 1.68:1 | 47510 | 73800 | 26290 | 1.55:1 |
| Summer Paddy | Integrated Disease Management | Blast management of paddy | 60 | 10 | 54.0 | 48.8 | 10.65 | | | 54300 | 91800 | 37500 | 1.69:1 | 53405 | 82960 | 29555 | 1.54;1 |
| Summer Paddy | Integrated Pest Management | yellow Stem borer management of paddy | 40 | 5 | 54.2 | 49.1 | 10.38 | | | 54610 | 92140 | 37530 | 1.68:1 | 53925 | 83470 | 29545 | 1.55:1 |
| | | Total | 371 | 40.34 | | | | | | | | | | | | | |

## 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 | | | | | | | | | | | | | | | | | |
| Poultry | Promotion of High Yielding Breed | Backyard Vanaraja poultry farming | 40 | 400 | 156.91 | 65.23 | 140.54 | 2132.56 | 1678.62 | 592.98 | 1205.76 | 612.78 | **2.03** | 452.75 | 670.56 | 217.81 | 1.48 |
| Rabbitry | | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | | | | | | | | |
| Duckery | Promotion of High Yielding Breed | Backyard Khaki Campbell duck farming | 40 | 400 | 262.67 | 87.12 | 201.50 | 2065.45 | 1552.76 | 923.45 | 1978.19 | 1054.75 | **2.14** | 517.73 | 753.71 | 235.98 | 1.46 |
| Others (pl.specify) | | | | | | | | | | | | | | | | | |
| Total | | | 80 | 800 | | | | | | | | | | | | | |

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

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other enterprises

| Category | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | *Economics of demonstration (Rs.) or Rs./unit | | | | *Economics of check (Rs.) or Rs./unit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 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 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Others (pl.specify) NOVCOM compost | Preparation and use of NOVCOM compost as organic manure in brinjal crop | 10 | 10 | 478 | 342 | 39.77 | | | 76850 | 185220 | 108370 | 2.41 | 82500 | 165230 | 82730 | 2.00 |
| **Total** | | **10** | **10** | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Women empowerment

| Category | Name of technology | No. of demonstrations | Observations | | Remarks |
|---|---|---|---|---|---|
| | | | Demonstration | Check | |
| Farm Women | | | | | |
| Pregnant women | | | | | |
| Adolescent Girl | | | | | |
| Other women | | | | | |
| Children | | | | | |
| Neonatal | | | | | |
| Infants | | | | | |

Farm implements and machinery

| Name of the implement | Crop | Name of the technology demonstrated | No. of Farmer | Area (ha) | Filed observation (output/man hour) | | % change in major parameter | Labor reduction (man days) | | | | Cost reduction (Rs./ha or Rs./Unit) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | | | | | | | | |
| | | | | | | | | | | | | | | | |

*** Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.**
**** BCR= GROSS RETURN/GROSS COST**

**Demonstration details on crop hybrids**

| Crop | Name of the Hybrid | No. of farmers | Area (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cereals | | | | Demo | Local check | % change | Gross Cost | Gross Return | Net Return | BCR |
| | | | | | | | | | | |
| Bajra | | | | | | | | | | |
| Maize | | | | | | | | | | |
| Paddy | | | | | | | | | | |
| Sorghum | | | | | | | | | | |
| Wheat | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| Total | | | | | | | | | | |
| Oilseeds | | | | | | | | | | |
| Castor | | | | | | | | | | |
| Mustard | | | | | | | | | | |
| Safflower | | | | | | | | | | |
| Sesame | | | | | | | | | | |
| Sunflower | | | | | | | | | | |
| Groundnut | | | | | | | | | | |
| Soybean | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| Total | | | | | | | | | | |
| Pulses | | | | | | | | | | |
| Greengram | | | | | | | | | | |
| Blackgram | | | | | | | | | | |
| Bengalgram | | | | | | | | | | |
| Redgram | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | | | | | | | | | | |
| Vegetable crops | | | | | | | | | | |
| Bottle gourd | | | | | | | | | | |
| Capsicum | | | | | | | | | | |
| Cucumber | | | | | | | | | | |
| Tomato | | | | | | | | | | |
| Brinjal | | | | | | | | | | |
| Okra | | | | | | | | | | |
| Onion | | | | | | | | | | |
| Potato | | | | | | | | | | |
| Field bean | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| Total | | | | | | | | | | |
| Commercial crops | | | | | | | | | | |
| Cotton | | | | | | | | | | |
| Coconut | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| | | | | | | | | | | |
| Total | | | | | | | | | | |
| Fodder crops | | | | | | | | | | |
| Napier (Fodder) | | | | | | | | | | |
| Maize (Fodder) | | | | | | | | | | |
| Sorghum (Fodder) | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| Total | | | | | | | | | | |

Technical Feedback on the demonstrated technologies

| S. No | Crop | Feed Back |
|---|---|---|
| 1 | Winter paddy | The variety (Swarna Sub-1)performed well in lowland water logged condition.even in case of complete submergence upto 8-10 days. The variety gave 10.95% more yield than the cheque variety(MTU-7029) The farmers are ready to cultivate this variety under lowland submerged condition. |
| 2. | Winter Paddy | Sheath blight management of paddy increases more than 10% crop yield |
| 3. | Summer Paddy | Blast management of paddy increases more than 10% crop yield |
| 4. | Summer Paddy | Yellow Stem borer management of paddy increases more than 10% crop yield |
| 5. | Mustard | Seed treatment,boron and sulphur management as well as pest disease management increases 28.5% crop yield |
| 6. | Groundnut | Application of gypsum increases 20% yield |
| 7. | Lentil | Seed treatment with T. Viridae,Seed inoculation with Rhizobium, ,Application of boron , sulphur as well as pest and disease management increases 50% yield |
| 8. | Green gram | Seed treatment with T. Viridae , seed inoculation with rhizobium **,** ,boron and sulphur management along with pest management increases 42% yield |
| 9. | Lentil | Application of PSB increases 38% yield |
| 10 | Potato | Cultivation practices of Potato (var.K. Himalini) under medium land condition provides 7% more yield than Jyoti variety |
| 11. | Colocasia | Variety Bidhan Joydeb accepted by farmers |
| 12. | Tomato | Calcium application increases blossom of tomato |
| 13. | Elephant Foot Yam | Variety Bidhan Kusum performed exceedingly well and there is an increase of yield to a tune of 62% |
| 14. | Turmeric | Variety Suguna performed exceedingly well |
| 15. | Ginger | Variety Gorubathan performed exceedingly well |
| 16. | Cauliflower | Application of Mo and B reduces hollow stem. |
| 17. | KC duck | Khaki Campbell variety laid 56% more eggs over normal conventional breed |
| 18. | Vanraja Chicks | Vanraja Chicks laid 60% more eggs over normal conventional breed |

**Extension and Training activities under FLD**

| Sl.No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
|---|---|---|---|---|---|
| 1. | Field days | 17.12.18, 19.12.18, 30.01.19, 08.03.19, 26.10.18, 14.12.18, 20.02.19 | 9 | 215 | |
| 2. | Farmers Training | | 12 | 425 | |
| 3. | Media coverage | 18.01.19 | 1 | | |
| 4. | Training for extension functionaries | Regular Training is incorporated for input dealers on DAESI course where findings of FLDs are discussed | | | |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2018 and Rabi 2018-19:**

**Crop: Greengram**

**A. Technical Parameters**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 1. | Greengram | Local | 7.4 | 950 | 862 | 1500 | IPM 2-3<br>• Seed treatment with T. Viridae (@ 5g/kgSeed)<br>• Rhizobium inoculation (@ 400g/acre)<br>• Boron(20%) application @ 2g/ liter of water<br>• Application of Liquid Sulphar (33%) @3ml/liter of water<br>• Application of Imidachloprid 17.8 SL @0.3ml/liter of water for mosaic<br>• Application of Flubendiamide (39.5%Sc) against pod borer. | 129 | 30 | 12.8 | 8.1 | 10.5 | 10.5 | 21.8 | 42.8 |

## B. Economic parameters

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | | Farmers, feedback |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | |
| 1. | Seed treatment with T. Viridae , seed inoculation with rhizobium , ,boron and sulphur management along with pest management | 17,230 | 36,260 | 19,030 | 2.10:1 | 19,540 | 52,500 | 32,960 | 2.69:1 | The variety performed well in farmers field.The crop growth was satisfactory and the farmers were very happy as they got good yield. |

## C. Socio-economic impact parameters

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
|---|---|---|---|---|---|---|---|---|
| 1. | Greengram IPM 2-3 | 31,500 | 62 | 50 | - | 6,100 | To meet the family maintenance. | 13 |

**D. Pulse Farmer's 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 |
| | IPM 2-3 Seed treatment with T. Viridae , seed inoculation with rhizobium , ,boron and sulphur management along with pest management. | The crop is suitable to the farmers existing farming system. | The farmers preferred the variety very much as the variety is of short duration . | More than 96% of the farmer are able to adopt the technology. | Some of the plots were affected by pests. | Technology is acceptable among majority of the farmers | Rhizobium,PSB and micronutrient to be made available at farmers doorstep |

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

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| Plant | Vigorous growth | Plant height and growth was more as compare to local variety. | Farmers were happy. |
| Pod | More | More no. of pod/plant(65.3)as compare to local variety. | Farmers were happy |
| Seed | Bold seed | More no. of seed/pod(12.2) as compare to local check. | Farmers obtained higher yield. |

**F. Extension activities under FLD conducted till dates:**

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
|---|---|---|---|
| **1** | **Training** | 08.03.19,Howrah KVK | **30** |
| **2** | **Field Visit** | 29.03.19 , Dhurkhali | **18** |
| **3** | **Field Visit** | 01.05.19, Sarenga | **30** |
| **4** | **Field day** | 01.05.19, Ula | **38** |

8. Sequential good quality photographs (as per crop stages i.e. growth & development)
9. Farmers' training photographs
respect of training,
10. Photographs of field visits/field days and technology demonstrated

All photographs are enclosed separately in crop picture, field visit and field day.

**11. Details of budget utilization up to 31.03.2016**

| Crop (provide crop wise information ) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| Greengram | i) Critical input | 2,70,000 | 2,26,210 | 16,793 |
| | ii) TA/DA/POL etc. for monitoring | | 26,997 | |
| | iii) Extension Activities (Field day) | | | |
| | iv)Publication of literature | | | |
| | Total | 2,70,000 | 2,53,207 | 16,793 |

12. List of Farmer under FLD (Crop wise)

a) Crop: Greengram

| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes/ No) | Recommendations based on soil test value | Brief technology intervention | Variety | Seed quantity used | Demo. Yield (q/ha) | | | Yield of local check q/ha | % increase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Latitude **22'677 222ºN** | Longitude **88'121 469 ºE** | | $N:P_2O_5:K_2O$/ha | Seed treatment with T. Viridae, seed inoculation with rhizobium , ,boron and sulphur management along with pest management | IPM 2-3 | Total- 675 kg (22.5kg/ha) | H 12.8 | L 8.1 | A 10.5 | 7.4 | 41.8 |
| BADOL KOLEY | LATE KANAI KOLEY | DHURKHALI | AMTA-1 | 9735605689 | | 22'659840ºN | 88'158470 ºE | Y | 20:40:20 | | | 3.0 | | | | | |
| ARABINDA SANTRA | ARUN SANTRA | DHURKHALI | AMTA-1 | 9564769653 | | 22'659840ºN | 88'158470 ºE | Y | 20:40:20 | | | 3.0 | | | | | |
| SUJATA DHANRA | GAUTAM DHARA | DHURKHALI | AMTA-1 | 9002980424 | | 22'659840ºN | 88'158470 ºE | Y | 20:40:20 | | | 3.0 | | | | | |
| DASUNATH MAJI | LATE SAFAL MAJI | DHURKHALI | AMTA-1 | 8149919421 | | 22'659840ºN | 88'158470 ºE | Y | 20:40:20 | | | 2.0 | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANCHI MAJI | MADAN MAJI | DHURKHALI | AMTA-1 | 9547139628 | | 22'6598 40°N | 88'1584 70°E | | | | | 2.0 | | | | | |
| KAMAL KOLEY | LATE SHIBURAM MJAI | DHURKHALI | AMTA-1 | 9734022028 | | 22'6598 40°N | 88'1584 70°E | | | | | 2.0 | | | | | |
| SURAJ KOLEY | LATE ASHIM KOLEY | DHURKHALI | AMTA-1 | 7872013188 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| SUBHENDU SANTRA | ARUN SANTRA | DHURKHALI | AMTA-1 | 9732765132 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| RAKESH SANTRA | LATE RANAJIT SANTRA | DHURKHALI | AMTA-1 | | | 22'6598 40°N | 88'1584 70°E | Y | 20:40:20 | | | 1.5 | | | | | |
| ANANYA KANRAR | MOHAN KANRAR | DHURKHALI | AMTA-1 | 8348197484 | | 22'6598 40°N | 88'1584 70°E | Y | 20:40:20 | | | 2.0 | | | | | |
| NARAN KOLEY | LATE FATIK KOLEY | DHURKHALI | AMTA-1 | 8670484871 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.0 | | | | | |
| ANNAPURNA KOLEY | SUBOSH KOLEY | DHURKHALI | AMTA-1 | 9002185805 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| TUKTUKI KOLEY | BARUN KOLEY | DHURKHALI | AMTA-1 | 9800929011 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| SANTI PANCHAL | ASHOKE PACHAL | DHURKHALI | AMTA-1 | 8972944982 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| JHUMA KANRAR | GOBINDO KANRAR | DHURKHALI | AMTA-1 | 9564200550 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| PROLOY KOLEY | JATIN KOLEY | DHURKHALI | AMTA-1 | 9755280015 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.0 | | | | | |
| SANCHITA KOLEY | BIJOY KOLEY | DHURKHALI | AMTA-1 | 9775284116 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| LAXMI BARLA | TULSHI CHARAN BARMAN | DHURKHALI | AMTA-1 | 9051517161 | | 22'6598 40°N | 88'1584 70°E | Y | 20:40:20 | | | 1.0 | | | | | |
| SRABANTI KOLEY | UTPAL KOLEY | DHURKHALI | AMTA-1 | 9002327488 | | 22'6598 40°N | 88'1584 70°E | | | | | 2.0 | | | | | |
| MAMATA PATRA | UTPAL PATRA | DHURKHALI | AMTA-1 | 9564362756 | | 22'6598 40°N | 88'1584 70°E | | | | | 2.5 | | | | | |
| PINKI PATRA | PINKI PATRA | DHURKHALI | AMTA-1 | 9564362756 | | 22'6598 40°N | 88'1584 70°E | | | | | 3.0 | | | | | |
| ANJANA PATRA | UTPAL PATRA | DHURKHALI | AMTA-1 | 9800549255 | | 22'6598 40°N | 88'1584 70°E | | | | | 1.5 | | | | | |
| KASINATH HAZRA | SUFAL HAZRA | DHURKHALI | AMTA-1 | 9002089299 | | 22'6598 40°N | 88'1584 70°E | | | | | 3.0 | | | | | |
| SAMIR MAJI | PURNENDU MAJI | DHURKHALI | AMTA-1 | | | 22'6598 40°N | 88'1584 70°E | | | | | 3.0 | | | | | |
| ARATI PARUI | DHANJOY PARUI | KANNYAMANI | SANKRAIL | 9734433577 | | 22'6109 41°N | 88'3537 60°E | | | | | 3.0 | | | | | |
| DEBASHREE DOLUI | RAMESH DOLUI | KANNYAMANI | SANKRAIL | 9800767429 | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| ASHOKE ROY | ANIL ROY | ULA | SANKRAIL | 9800767429 | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| NIBHA MAJI | RAMCHARAN MAJI | ULA | SANKRAIL | 9820315700 | | 22'6109 41°N | 88'3537 60°E | Y | 20:40:20 | | | 6.0 | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MILAN NASKAR | LATE SEKH. NASKAR | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| BHARATI DAS | PRATAP DAS | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 3.0 | | | | | |
| KALPANA DAS | SWAPN DAS | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 4.5 | | | | | |
| DDAY DAS | DULAL DAS | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| ALPONA DAS | ANANDA DAS | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| LAXMAN DHANRA | JAYDEB DHARA | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 3.0 | | | | | |
| PULIN MAL | LATE BIJOY MAL | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| KESTA MALIK | BIJOY MALIK | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| MANISHA DOLUI | LATE ANANADA DOLUI | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| KARTICK MAJI | LATE NEMAI MAJI | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 4.5 | | | | | |
| RAM MAJI | LATE BHARAT MAJI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | Y | 20:40:40 | | | 3.0 | | | | | |
| ANSAR SEKH | GOLAM HOSSAIN | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| HALIMA SEKH | LATE HAMIDH SEKH. | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| DIPAKAR MAJI | LATE BIBHUTI MAJI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | Y | 20:40:40 | | | 6.0 | | | | | |
| SANATAN MAJI | SATTYACHARAN MAJI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | Y | 20:40:40 | | | 9.0 | | | | | |
| PUSPA MAJI | LATE SAM MAJI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| MANGAL DOULUI | MOHAN DOLUI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| SWAPAN HAZRA | SHYAMAL HAXRA | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| SAKHA BAG | SANTI BAG | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| JAGANNATHN BAG | GANDHI BAG | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 3.0 | | | | | |
| ALOKE DOLUI | SITARAM DOLUI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 6.0 | | | | | |
| KANAK HAZRA | NIRMAL HAZRA | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| MALATI MAJHI | SUNIL MAJHI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| DIPALI MAJHI | LAXMAN BAG | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 12.0 | | | | | |
| SUMITA DHALI | SUBAHASH DHALI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |
| SK. SAIFUDDIN | JANADAN SK. | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60°E | | | | | 9.0 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMIR MAJHI | LATE GAUR MAJI | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 6.0 | | | | | |
| SANDHYA DAS | LATE SUCHI DAS | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | Y | 20:40:20 | | | 9.0 | | | | | |
| AJIMOL SK. | LATE SAYD SK | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | Y | 20:40:20 | | | 6.0 | | | | | |
| BASUDEB DOLUI | LATE NAGENDRANATH DOLUI | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 3.0 | | | | | |
| BHASA MAJI | KARTIK MAJHI | ULA | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 5.0 | | | | | |
| BHULAL MAJI | GANESH MAJI | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 9.0 | | | | | |
| JHUMA DAS | JAYDEB DAS | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 9.0 | | | | | |
| MALAY PARH | MANINDRA PARH | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 9..0 | | | | | |
| REKHA HAZRA | SANTU HAZRA | KANNYAMANI | SANKRAIL | | | 22'6109 41°N | 88'3537 60 °E | | | | | 6.0 | | | | | |
| SUPARNA JANA | BHUPATI MONDAL | KALINAGAR | ULUBERIA-1 | 9830736879 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 3.0 | | | | | |
| HARADHAN SAMNATA | HARADHAN SAMANTA | KALINAGAR | ULUBERIA-1 | 9674024982 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 1.5 | | | | | |
| SUDAM MAJI | SANATAN MAJI | KALINAGAR | ULUBERIA-1 | 9073870225 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| BASUDEB MAJI | SHANKAR MAJI | KALINAGAR | ULUBERIA-1 | 9051075329 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| SOMA MONDAL | GOPAL MONDAL | KALINAGAR | ULUBERIA-1 | 6291416614 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| SANGITA SAMANTA | GOPAL MONDAL | KALINAGAR | ULUBERIA-1 | 9674125211 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| SHUVENDU MONDAL | CHURAMONI MONDAL | KALINAGAR | ULUBERIA-1 | 8697368253 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| KUNTAL SAU | LAXMAN SAU | KALINAGAR | ULUBERIA-1 | 9836573435 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| TUMPA MONDAL | DIPAK MONDAL | KALINAGAR | ULUBERIA-1 | 8697005642 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| BISWAJIT MAJI | SACHIN MAJI | KALINAGAR | ULUBERIA-1 | 6290238968 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| JHUMA MAJI | GOBINDO MAJI | KALINAGAR | ULUBERIA-1 | 9674430302 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| BASUDEB SARKAR | JAYDEB SARKAR | KALINAGAR | ULUBERIA-1 | 9830869085 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| MANAMATH BERA | BECHU RAM | KALINAGAR | ULUBERIA-1 | 8017983395 | | 22'4405 0°N | 88'1092 20 °E | | | | | 3.0 | | | | | |
| SHANKAR TUNG | BHARAT TUNG | KALINAGAR | ULUBERIA-1 | 8697075204 | | 22'4405 0°N | 88'1092 20 °E | | | | | 3.0 | | | | | |
| HARU SAMNTA | PARESH SAMANTA | KALINAGAR | ULUBERIA-1 | 9874785210 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 1.5 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SADHUKHAN GHORUI | NETAI GHORUI | KALINA GAR | ULUBE RIA-1 | 629198 7474 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 1.5 | | | | | |
| HARU GHORUI | PARESH GHORUI | KALINA GAR | ULUBE RIA-1 | 983603 8090 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| BHADRESWAR BERA | BECHURAM BERA | KALINA GAR | ULUBE RIA-1 | 628958 4459 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 1.5 | | | | | |
| AJOY MONDAL | TARINI MONDAL | KALINA GAR | ULUBE RIA-1 | 914339 5534 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| KAUSHIK TUNG | SHIBUSAN TUNG | KALINA GAR | ULUBE RIA-1 | 629063 8435 | | 22'4405 0°N | 88'1092 20 °E | Y | 20:40:40 | | | 1.5 | | | | | |
| NISHIKANTA SAMANTA | DINOBONDHU SAMANTA | KALINA GAR | ULUBE RIA-1 | 864785 3293 | | 22'4405 0°N | 88'1092 20 °E | | | | | 2.0 | | | | | |
| AMRITA MONDAL | CHURAMONI MONDAL | KALINA GAR | ULUBE RIA-1 | 905109 5016 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.5 | | | | | |
| SUKHDEB SAMANTA | FANINDA SANANTA | KALINA GAR | ULUBE RIA-1 | 967449 4444 | | 22'4405 0°N | 88'1092 20 °E | | | | | 2.0 | | | | | |
| SANJOY MONDAL | TARINI MONDAL | KALINA GAR | ULUBE RIA-1 | 905192 3981 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| ASIT SAMANTA | PANCHURAM SAMANTA | KALINA GAR | ULUBE RIA-1 | 983689 0833 | | 22'4405 0°N | 88'1092 20 °E | | | | | 2.0 | | | | | |
| RABIN JANA | DHANANJOY JANA N | KALINA GAR | ULUBE RIA-1 | 905149 7655 | | 22'4405 0°N | 88'1092 20 °E | | | | | 1.0 | | | | | |
| MONIMOHAN SAMANTA | TUSTU SAMANTA | KALINA GAR | ULUBE RIA-1 | 914321 7669 | | 22'4405 0°N | 88'1092 20 °E | | | | | 2.0 | | | | | |
| SOUMITRA KOLEY | HARU KOLEY | PUTKHA LI | AMTA-2 | 973248/ 6088 | | 22'3577 0°N | 87'5528 00 °E | | | | | 3.0 | | | | | |
| PALITA KOLEY | LATE JIBAN KOLEY | PUTKHA LI | AMTA-2 | | | 22'3577 0°N | 87'5528 00 °E | | | | | 3.0 | | | | | |
| KAKALI DHARA | DEBASISH DHARA | PUTKHA LI | AMTA-2 | **890276 1257** | | 22'3577 0°N | 87'5528 00 °E | | | | | 6.0 | | | | | |
| BUBAI MAJI | LATE ARUN MAJI | PUTKHA LI | AMTA-2 | 860968 5981 | | 22'3577 0°N | 87'5528 00 °E | | | | | 6.0 | | | | | |
| TANMOY MAJI | ABONI MAJI | PUTKHA LI | AMTA-2 | 837080 7783 | | 22'3577 0°N | 87'5528 00 °E | | | | | 9.0 | | | | | |
| PAPAI MAJI | ARUN MAJI | PUTKHA LI | AMTA-2 | 973515 9712 | | 22'3577 0°N | 87'5528 00 °E | | | | | 9.0 | | | | | |
| GURUPADA DHARA | GAURAPADA DHARA | PUTKHA LI | AMTA-2 | | | 22'3577 0°N | 87'5528 00 °E | | | | | 9.0 | | | | | |
| SOUHADYA DHARA | LATE NEMAI DHARA | PUTKHA LI | AMTA-2 | | | 22'3577 0°N | 87'5528 00 °E | | | | | 6.0 | | | | | |
| MAMATA MAJI | LATE ARUN MAJI | PUTKHA LI | AMTA-2 | 973568 6902 | | 22'3577 0°N | 87'5528 00 °E | | | | | 3.0 | | | | | |
| KAJAL JANA | ARABINDA JANA | PUTKHA LI | AMTA-2 | 771872 6311 | | 22'3577 0°N | 87'5528 00 °E | | | | | 3.0 | | | | | |
| HARADHAN BAG | LATE SATISH BAG | PUTKHA LI | AMTA-2 | | | 22'3577 0°N | 87'5528 00 °E | | | | | 12.0 | | | | | |
| CHAYAN BAG | HARADHAN BAG | PUTKHA LI | AMTA-2 | 973443 1745 | | 22'3577 0°N | 87'5528 00 °E | | | | | 15.0 | | | | | |

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| DEB KR. BAG | LATE ATIN BAG | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 6.0 | | | | | |
| REKHA BAG | DEB KR. BAG | PUTKHALI | AMTA-2 | 9735159712 | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| PRABODH BAG | HARIPADA BAG | PUTKHALI | AMTA-2 | 7872380883 | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| BISWQANATH DAS | DESHARI MOHAN BAG | PUTKHALI | AMTA-2 | 9733711596 | | 22'35770°N | 87'552800°E | Y | 00:40:40 | | | 9.0 | | | | | |
| NABA KR. DAS | BISWANATH DAS | PUTKHALI | AMTA-2 | **8436566977** | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| ARUP DAS | BISWANATH DAS | PUTKHALI | AMTA-2 | 9609065956 | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| DILIP DAS | BISWANATH DAS | PUTKHALI | AMTA-2 | 9564483238 | | 22'35770°N | 87'552800°E | Y | 00:40:40 | | | 6.0 | | | | | |
| DEBASIS DHARA | LATE NBEMAI DHARA | PUTKHALI | AMTA-2 | 9609557853 | | 22'35770°N | 87'552800°E | | | | | 12.0 | | | | | |
| RABIN BAG | LATE PRAHLAD BAG | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| PAMPA DHARA | GURUPADA DHARA | PUTKHALI | AMTA-2 | 9733861439 | | 22'35770°N | 87'552800°E | | | | | 6.0 | | | | | |
| SAMNDIPAN DHARA | BIBEKANANDA DHARA | PUTKHALI | AMTA-2 | 9609557851 | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| MANIMALA MAITY | ASHOKE MAITY | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| LAXMIPADA MAITY | LATE JIBAON MAITY | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 6.0 | | | | | |
| NILONJANA DHARA | GURUPADA DHARA | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| DIPANKAR SANTRA | SACHIN SANTRA | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| NIRAPADA JANA | LATE LAXMAN JANA | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| SOUEN KOLEY | BECHU KOLEY | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| NAYAN PRAMANIK | NABA KR. PRAMANIK | PUTKHALI | AMTA-2 | 8370807783 | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| JAY HAZRA | BANGSI HAZRA | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| MAHADIP POLLEY | RATAN KOLLEY | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 6.0 | | | | | |
| MRITTYUNJOY MALIK | TULSI MALIK | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| DURYADHAN PRAMANIK | BECHURAM PRAMNIK | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 12.0 | | | | | |
| JAYDEB MALIK | CHANDRAKANTA MALIK | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 15.0 | | | | | |
| KRISHNAPADA GHORAI | SANTOSH GHORUI | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |
| SUKUMAR JATI | ANANDA JATI | PUTKHALI | AMTA-2 | | | 22'35770°N | 87'552800°E | | | | | 9.0 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAYAN PRAMANIK | NAYAN PRAMANIK | PUTKHALI | AMTA-2 | | | 22'3577 0°N | 87'5528 00 °E | | | | | 9.0 | | | | | |
| | | | | | | | | | | | | 675 | | | | | |

Crop: Lentil

**A. Technical Parameters:**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 1. | Lentil | local | 6.1 | 750 | 959 | 1500 | Moitree<br>• Seed treatment with T. Viridae (@ 5g/kgSeed)<br>• Rhizobium inoculation (@ 400g/acre)<br>• Boron(20%) application @ 2g/ liter of water<br>• Application of Liquid Sulphar (33%) @3ml/liter of water<br>• Application of Metalaxyl(8%)+ Mancozeb (64%) @ 2g/liter of water for leaf blight | **71** | **10** | 10.3 | 7.3 | 9.2 | 22.6 | 4.2 | 63.0 |

**D. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio |
| 1. | Moitree Seed treatment with T. Viridae,Seed inoculation with Rhizobium, ,Application of boron , sulphur as well as pest and disease management | 14300 | 31720 | 17420 | 2.21:1 | 16750 | 47840 | 31100 | 2.86:1 |

**C.Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
|---|---|---|---|---|---|---|---|---|
| 1. | Lentil (Moitree) | 9200 | 70 | 52 | - | 1410 | Family maintenance | 14 |

**D. Pulse Farmer's perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name) | Farmers' Perception parameters | | | | | |
|---|---|---|---|---|---|---|---|
| | | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1. | Moitree Seed treatment with T. Viridae,Seed inoculation with Rhizobium, ,Application of boron , sulphur as well as pest and disease management | High to medium land situation | Short duration high yielding variety | More than 95% of the farmer are able to adopt the technology. | Less awareness among the farmers about pulse production technology and advantage of producing pulses. | Yes | New,Short duration variety with high yielding capacity of the crop is required. |

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

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| Plant | Crop growth was good. | Plant growth was better as compare to local varieties. | Farmers were happy with plant growth. |
| Pod | Good | No. of pod was more as compare to local variety | Farmers were happy |
| Seed | Seed was slightly bigger than the local variety | Less no. of chaffy seed as compare to local variety. | Farmers were happy with the yield that they obtained. |

**F.Extension activities under FLD conducted till dates:**

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
|---|---|---|---|
| 1. | Training | 30.11.18,Ula | 38 |
| 2. | Field visit | 30.11.18,Sarenga | 20 |
| 3. | Field visit | 30.11.18,Kalinagar | 15 |
| 4. | Field visit | 14.01.19,Kamalpur | 18 |
| 5. | Field visit | 14.01.19,Radhapur | 16 |

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

**9**. Farmers' training photographs

**10**. Photographs of field visits/field days and technology demonstrated.

Attached separately

**11.** Details of budget utilization

| Crop (provide crop wise information ) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| Lentil | i) Critical input | 90,000 | 77,622 | 3,401 |
| | ii) TA/DA/POL etc. for monitoring | | 8,977 | |
| | iii) Extension Activities (Field day) | | | |
| | iv)Publication of literature | | | |
| | Total | | 86,599 | 3,401 |

**12.** List of Farmer under FLD (Crop wise)
A) Lentil

| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes/No) | Recommendations based on soil test value | Brief technology intervention | Variety | Seed quantity used (Kg) | Demo. Yield (q/ha) | | | Yield of local check q/ha | % increase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Latitude | Longitude | | $N:P_2O_5:K_2O$/ha | Seed treatment with T. Viridae, Seed inoculation with Rhizobium, ,Application of boron , sulphur as well as pest and disease management | Moi tree | 30 kg/ha (Total 300 Kg) | H | L | A | | |
| | | | | | | | | | | | | | 10.3 | 7.3 | 9.2 | 6.1 | 50.8 |
| NIRMAL BAITALIK | LATE GASHTA BAITALIK | KAMAL PUR | KAMALPUR | | | 22'275 666°N | 87'986 958 °E | | 20:40:40 | | | 4.0 | | | | | |
| KALYAN BAITALIK | ANANDA BAITALIK | KAMAL PUR | KAMALPUR | 9775115337 | | 22'275 666°N | 87'986 958 °E | | | | | 4.0 | | | | | |
| BIMAL SAMANTA | ARJUN BAITALIK | KAMAL PUR | KAMALPUR | 9593008990 | | 22'275 666°N | 87'986 958 °E | | | | | 4.0 | | | | | |
| MALAY KR. SAMANTA | MURARI SAMANTA | KAMAL PUR | KAMALPUR | 7872208026 | | 22'275 666°N | 87'986 958 °E | | | | | 4.0 | | | | | |
| KARTIK SAMUI | GAJENDRA SAMUI | KAMAL PUR | KAMALPUR | | | 22'275 666°N | 87'986 958 °E | | | | | 4.0 | | | | | |
| UTTAM SAMUI | KANAILAL SAMUI | KAMAL PUR | KAMALPUR | | | 22'275 666°N | 87'986 958 °E | | | | | 4.0 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASIMA SAMUI | PRTANANJAN SAUI | KAMAL PUR | KAMALP UR | 769931 9536 | | 22'275 666°N | 87'986 958°E | | | | | 4.0 | | | | | |
| GAURI SANKAR SAMANTA | PARESH SAMANTA | KAMAL PUR | KAMALP UR | 980053 3800 | | 22'275 666°N | 87'986 958°E | | | | | 4.0 | | | | | |
| TAPASI BAITALIK | PRABHAKAR BAITALIK | KAMAL PUR | KAMALP UR | 834595 4621 | | 22'275 666°N | 87'986 958°E | | | | | 4.0 | | | | | |
| KALPANA SAMUI | LALU SAMUI | KAMAL PUR | KAMALP UR | 740024 0695 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| BISWAJIT BERA | LATE SRIDHAR CH. BERA | RADAH PUR | RADAHP UR | 973556 3720 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| PARESH BERA | MADAN BERA | RADAH PUR | RADAHP UR | 867001 5937 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| NEMAI GIRI | MAHADEB GIRI | RADAH PUR | RADAHP UR | | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| BAPPYADITYA SAMANTA | SUNIL BERA | RADAH PUR | RADAHP UR | | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| RAMENDRANA TH SAMANTA | PRASASD SAMANTA | RADAH PUR | RADAHP UR | 960938 5081 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| AVIJIT MAL | LATE MURARI MOHAN MAL | RADAH PUR | RADAHP UR | 956424 7982 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| CHIRANJIT MAL | LATE MURARI MOHAN MAL | RADAH PUR | RADAHP UR | 973299 7175 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| SATYAPRASAD BHOWMIK | LATE BALAI CHARAN BHOWMIK | RADAH PUR | RADAHP UR | 787236 7771 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| TARAKPRASAD BHOWMIK | LATE BALAI CHARAN BHOWMIK | RADAH PUR | RADAHP UR | 973295 1100 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| DOLIRANI PAL | DEB PRASAD PAL | RADAH PUR | RADAHP UR | 973253 3420 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| ALOKE SAMANTA | GUNODHAR SAMANTA | RADAH PUR | RADAHP UR | 960907 8884 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| SUKUMAR SAMANTA | SUKUMAR SAMANTA | RADAH PUR | RADAHP UR | 814594 9460 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| RAMENDRANA TH BHOWMIK | LATE BALAI BHPWMIK | RADAH PUR | RADAHP UR | 900266 9321 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| SRABONI BHOWMIK | HRISIKESH BHOWMIK | RADAH PUR | RADAHP UR | 973281 2099 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| DEBPRASAD PAL | GUNODHAR PAL | RADAH PUR | RADAHP UR | 960923 1374 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| LAAXMIPADA SAMANTA | ILAN SAMANTA | PURULP ARA | KAMALP UR | 727854 4247 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |
| DINOBONDHU SAMANTA | GOBINDO SAMANTA | PURULP ARA | RADAHP UR | 973291 4231 | | 22'271 461°N | 87'899 228°E | | | | | 4.0 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRADIP KR.SAMANTA | HARE KRISHNA SAMANTA | PURULPARA | RADAHPUR | 8145953230 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| ANATH KR. SAMANTA | GOBINDO SAMNTA | PURULPARA | RADAHPUR | 8609603986 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| PARIMAL SAMANTA | GANGADHAR SAMANTA | PURULPARA | RADAHPUR | 8327670551 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| ANITA SAMANTA | HEMANTA SAMANTA | KAMALPUR | KAMALPUR | 8327670550 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| PANNALAL SAMANTA | KRISHNAPADA SAMANTA | KAMALPUR | KAMALPUR | 83482373491 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| ALOKE SAMANTA | BRINDABON SAMANTA | RADAHPUR | RADAHPUR | 62941675254 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| RAMESH CH. BARMAN | GYAN FERA | RADAHPUR | RADAHPUR | 9832690085 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| ANUP KR. SAMANTA | SUDHANKAR SAMNTA | KAMALPUR | KAMALPUR | 95934211314 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| ANUP MAITY | GIRIDHAR MAITY | RADAHPUR | RADAHPUR | 7407502277 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| SUKUMAR MANNA | MUKUNDA MANNA | RADAHPUR | RADAHPUR | 9093847679 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| RANOJIT PRAMANIK | LATE TUSTA PADA PRAMANIK | RADAHPUR | RADAHPUR | 9093847679 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| MONORANJAN PRAMANIK | LATE GUNODHAR PRAMANIK | RADAHPUR | RADAHPUR | 9732425380 | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| RABINDRANATH MANDAL | MALENDU MONDAL | RADAHPUR | RADAHPUR | | | 22'260229°N | 88'006378°E | | | | | 4.0 | | | | | |
| KAMAL SAU | LAXMAN SAU | KALINAGAR | KALINAGAR | 9647195454 | | 22'260229°N | 88'006378°E | | | | | 8.0 | | | | | |
| SRIKANTA SAU | LAXMIKANATA SAU | KALINAGAR | KALINAGAR | 7872496638 | | 22'260229°N | 88'006378°E | | | | | 5.0 | | | | | |
| BHABANIPRASAD MONDAL | BANANI PRASAD MONDAL | KALINAGAR | KALINAGAR | 7872496638 | | 22'455525°N | 88'105498°E | | | | | 6.0 | | | | | |
| SAMIM MONDAL | SAMIR MONDAL | KALINAGAR | KALINAGAR | 97328781471 | | 22'455525°N | 88'105498°E | | | | | 3.0 | | | | | |
| SANGITA SAMANTA | GOPAL MONDAL | KALINAGAR | KALINAGAR | 80170042688 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| TAPAS JANA | PRASAD JANA | KALINAGAR | KALINAGAR | 9143223382 | | 22'455525°N | 88'105498°E | | | | | 2.0 | | | | | |
| SAMIM MONDAL | DILIP MONDAL | KALINAGAR | KALINAGAR | 9874811704 | | 22'455525°N | 88'105498°E | | | | | 8.0 | | | | | |
| SANGITA SAMANTA | PULISH MONDAL | KALINAGAR | KALINAGAR | 8017990962 | | 22'455525°N | 88'105498°E | | | | | 2.0 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TAPAS JANA | PARESH BHOWMIK | KALINAGAR | KALINAGAR | 8648042928 | | 22'455525°N | 88'105498°E | | | | | 8.0 | | | | | |
| SOMA MONDAL | KANGAL SAU | KALINAGAR | KALINAGAR | 9830736879 | | 22'455525°N | 88'105498°E | | | | | 6.0 | | | | | |
| SABITA MONDAL | RABIN JANA | KALINAGAR | KALINAGAR | 6291416614 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| NABA KR. BHOWMIK | MONIMALA SAMANTA | KALINAGAR | KALINAGAR | 8017958593 | | 22'455525°N | 88'105498°E | | | | | 5.0 | | | | | |
| RAGHUNATH SAU | PANCHUMAN SAMANTA | KALINAGAR | KALINAGAR | 9748583395 | | 22'455525°N | 88'105498°E | | | | | 5.0 | | | | | |
| RABIN JANA | SHUVENDU MONDAL | KALINAGAR | KALINAGAR | 905194165 | | 22'455525°N | 88'105498°E | | | | | 6.0 | | | | | |
| MONIMALA SAMANTA | BABAULAL MAITY | KALINAGAR | KALINAGAR | 96744944444 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| ASIT SAMANTA | LAXMAN NASKAR | KALINAGAR | KALINAGAR | 9836890833 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| SUBHENDU MONDAL | LAXMIKANATA SAU | KALINAGAR | KALINAGAR | 8697364253 | | 22'455525°N | 88'105498°E | | | | | 6.0 | | | | | |
| HARULAL MAITY | BABULAL MAITY | KALINAGAR | KALINAGAR | 9233965838 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| DIPAK NASKAR | LAXMAN NASKAR | ULA | NALPUR | | | 22'455525°N | 88'105498°E | | | | | 2.0 | | | | | |
| SULEKHA KARATI | LAXMIKANTA SAU | ULA | NALPUR | 8276938809 | | 22'455525°N | 88'105498°E | | | | | 4.0 | | | | | |
| TUMPA SARDAR | BISTUPADA MONDAL | ULA | NALPUR | 9230383488 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| DHANANJOY NASKAR | GOLAM MOINUDIIN MONDAL | ULA | NALPUR | 9230227636 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| JAYA NASKAR | RANAJIT NASKAR | ULA | NALPUR | 9674044805 | | 22'271461°N | 87'899228°E | | | | | 2.0 | | | | | |
| DIPTI HAZRA | DUKHIRAM HAZRA | ULA | NALPUR | 9073773009 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| PARBATI NASKAR | SUNIRMAL NASKAR | ULA | NALPUR | 9143611190 | | 22'271461°N | 87'899228°E | | | | | 2.0 | | | | | |
| MILAN HALDER | SURAJIT HALDER | KANYAMANI | RAGHUNATHBATI | | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| ASHOKE ROY | ANIL KRISHNA ROY | KANYAMANI | RAGHUNATHBATI | | | 22'271461°N | 87'899228°E | | | | | 2.0 | | | | | |
| CHIRANJIT NASKAR | SADHAN NASKAR | KANYAMANI | RAGHUNATHBATI | 7890480627 | | 22'271461°N | 87'899228°E | | | | | 4.0 | | | | | |
| SAAGAR SARDAR | DHANANJOY SARDAR | KANYAMANI | RAGHUNATHBATI | 7890631760 | | 22'271461°N | 87'899228°E | | | | | 2.0 | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JHUMA DAS | SUKHDEB DAS | KANYA MANI | RAGHUN ATHBATI | | | 22'271 461°N | 87'899 228 °E | | | | | 2.0 | | | | | |
| BULLU DHONKE | DINONATH DHONKE | KANYA MANI | RAGHUN ATHBATI | | | 22'271 461°N | 87'899 228 °E | | | | | 4.0 | | | | | |
| DEBASHREE DOLUI | RAMESH DOLUI | KANYA MANI | RAGHUN ATHBATI | | | 22'271 461°N | 87'899 228 °E | | | | | 4.0 | | | | | |
| NIBHA MAJI | JADAV MAJHI | KANYA MANI | RAGHUN ATHBATI | | | 22'271 461°N | 87'899 228 °E | | | | | 2.0 | | | | | |
| SANATAN MAJI | SATYACHARAN MAJI | SARENGA | SARENGA | | | 22'271 461°N | 87'899 228 °E | | | | | 4.0 | | | | | |
| | | | | | | | | | | | | 300 | | | | | |

Crop: Mustard

**A. Technical Parameters:**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 1. | Mustard | B-9 | 9.8 | 1050 | 1049 | 1469 | JD-6 Seed treatment,boron and sulphur management as well as pest disease management | 28 | 10 | 14.2 | 8.4 | 12.6 | 20 | 20.1 | 16.5 |

**B. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio |
| 1. | JD-6 Seed treatment,boron | 18420 | 44100 | 25680 | 2.39:1 | 21540 | 56700 | 35160 | 2.63:1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | and sulphur management as well as pest disease management | | | | | | | | |

**C.Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
|---|---|---|---|---|---|---|---|---|
| 1. | Mustard (JD-6) | 12600 | 61 | 45 | - | 1250 | To meet the family requirement | 18 |

**D. Pulse Farmer's perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name) | Farmers' Perception parameters | | | | | |
|---|---|---|---|---|---|---|---|
| | | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1. | Seed treatment,boron and sulphur management as well as pest disease management | Suitable ,but early sowing of the crop within first week of November resulted higher yield. | Short duration variety is popular among the farmer.They require variety which mature within 90-95 days. So that they fit their crop well in their existing cropping system. | More than 97% of the farmer are able to adopt the technology. | Average plant height is 5 feet and it was difficult to spray any type of pesticides/fungicides. | Yes | Short duration variety with high yielding capacity as well as higher oil content in the seed is required. |

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

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| Plant | Vigorous growth | Plant growth is vigorous and plant height is much more (more than 5 feet) as compare to local variety | It was difficult for spraying of pesticides because of more height of the plant. |
| Siliqua | More | More no. of siliqua as compare to local variety | Farmers were happy. |
| Seed | Bold seed | Less no. of seed/siliqua as compare to local check. | Less no. of seed was compensated by more no. of siliqua. |

**F.Extension activities under FLD conducted till dates:**

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
|---|---|---|---|
| 1. | Training | 28.11.18,Ichanagari | 35 |
| 2. | Field visit | 31.01.19,Jhingra | 20 |
| 3. | Field visit | 31.01.19, Ichanagari | 15 |
| 4. | Field visit | 12.02.19,Jhingra | 12 |
| 5. | Field Day | 05.03.19 Jhingra | 35 |

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

**9**. Farmers' training photographs

**10**. Photographs of field visits/field days and technology demonstrated.

} Attached separately

**11.** Details of budget utilization

| Crop (provide crop wise information ) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| JD-6 | i) Critical input | 60,000 | 51,833 | 2,168 |
| | ii) TA/DA/POL etc. for monitoring | | 5,999 | |
| | iii) Extension Activities (Field day) | | | |
| | iv)Publication of literature | | | |
| | Total | | 57,832 | 2,168 |

**12.** List of Farmer under FLD (Crop wise)

A) Mustard

| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes /No) | Recommendations based on soil test value | Brief technology intervention | Variety | Seed quantity used (Kg) | Demo. Yield (q/ha) | | | Yield of local check q/ha | % increase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Latitude | Longitude | | $N:P_2O_5:K_2O$/ha | Seed treatment,boron and sulphur management as well as pest disease management | JD-6 | 7.5 kg/ha (Total 75 Kg) | H | L | A | | |
| | | | | | | | | | | | | | 14.2 | 8.4 | 12.6 | 9.8 | 28.6 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SATYA HAZRA | GAJEN HAZRA | SAURIA | AMTA-2 | 89274 82423 | | 22'6571 90 °N | 88'096 540 °E | | 100:50:50 | | | 4 | | | | | |
| SK.AZGAR | LATE KHADU AZGAR | SAURIA | AMTA-2 | 97329 45257 | | 22'6571 90 °N | 88'096 540 °E | | | | | 3 | | | | | |
| HALIM KHAN | KORBAN KHAN | SAURIA | AMTA-2 | 62956 63795 | | 22'6571 90 °N | 88'096 540 °E | | | | | . | | | | | |
| SK. SALIM | MOINUDDIN SK. | SAURIA | AMTA-2 | | | 22'6571 90 °N | 88'096 540 °E | | | | | 4 | | | | | |
| ANANDA PRAMANIK | SADHAN PRAMANIK | SAURIA | AMTA-2 | 70636 14194 | | 22'6571 90 °N | 88'096 540 °E | | | | | 5 | | | | | |
| SWAPAN BHUIA | FATIK BHUIA | SAURIA | AMTA-2 | 74072 94911 | | 22'6571 90 °N | 88'096 540 °E | | | | | 2 | | | | | |
| MOTI KHAN | BECHU KHAN | SAURIA | AMTA-2 | 96477 73090 | | 22'6571 90 °N | 88'096 540 °E | | | | | 2 | | | | | |
| APU META | ANIL META | SAURIA | AMTA-2 | 95644 04912 | | 22'6571 90 °N | 88'096 540 °E | | | | | 3 | | | | | |
| BALIKA MALIK | SADAM MALIK | SAURIA | AMTA-2 | 83274 80877 | | 22'6571 90 °N | 88'096 540 °E | | | | | 2 | | | | | |
| AJIT META | LAXMAN META | SAURIA | AMTA-2 | 81452 36117 | | 22'6571 90 °N | 88'096 540 °E | | | | | 2 | | | | | |
| BINA PATRA | LATE GURUPADA PATRA | JHINGRA | JAGATBALLAVPUR | 97357 95296 | | 22'6754 450°N | 8'1182 40 °E | | | | | 2 | | | | | |
| SUBHRA PATRA | ANUP PATRA | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| NAJIMA BEGUM | SK. ABBAS UDDIN | JHINGRA | JAGATBALLAVPUR | 97756 20820 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| SK. NAJIBUL | SK. ABBASUDDIN | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| SK.ISRAFIL | SK. ISLAM | JHINGRA | JAGATBALLAVPUR | 77978 00021 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| SK. IBHRAHIM | SK. ISLAM | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| SK. HARESHA BEGUM | SK. ISLAM | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| GULSONA KHATUN | SK. ISLAM | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| CHAYA NANDI | DILIP NANDI | JHINGRA | JAGATBALLAVPUR | 97324 61764 | | 22'6754 450°N | 88'118 240 °E | | | | | 5 | | | | | |
| TAPAN NANDI | LATE PARITOSH NANDI | JHINGRA | JAGATBALLAVPUR | 97324 60640 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| NURBANU BEGUM | MUJAFFAR ROHOMAN GAYEN | ICHANAGARI | JAGATBALLAVPUR | 97756 26868 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SABRUNNESHA BEGUM | MOTIAR ROHOMAN GAYEN | ICHANA GARI | JAGATBALLAVPUR | 85979 95562 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| DOLAN SADHUKHAN | JAGANNANTH SADHUKHAN | ICHANA GARI | JAGATBALLAVPUR | 99329 03767 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| AMINA BEGUM | SAMSUDOHA MULLICK | ICHANA GARI | JAGATBALLAVPUR | 97328 31182 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| BISWAJIT DHARA | BIFOL DHARA | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| SRIMANTA MALIK | ANANDA MALIK | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| PURNIMA BAGANI | BABLU BAGANI | JHINGRA | JAGATBALLAVPUR | 97342 26020 | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |
| BABLU BAGANI | MANIK BAGANI | JHINGRA | JAGATBALLAVPUR | | | 22'6754 450°N | 88'118 240 °E | | | | | 3 | | | | | |

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

**A) Farmers and farm women (on campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | | | | | | | | | | | | | |
| Resource Conservation Technologies | 6 | 152 | 50 | 202 | 12 | 7 | 19 | 6 | 19 | 25 | 170 | 76 | 246 |
| Cropping Systems | | | | | | | | | | | | | |
| Crop Diversification | 9 | 198 | 24 | 222 | 78 | 15 | 93 | 0 | 0 | 0 | 276 | 39 | 315 |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 14 | 5 | 19 | 21 | 5 | 26 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Others, (cultivation of crops ) | 5 | 84 | 15 | 99 | 20 | 15 | 35 | 11 | 25 | 36 | 115 | 55 | 170 |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | 6 | 58 | 26 | 84 | 62 | 14 | 76 | 15 | 9 | 24 | 135 | 49 | 184 |
| Skill development | | | | | | | | | | | | | |
| Yield increment | 4 | 0 | 52 | 52 | 0 | 68 | 68 | 0 | 0 | 0 | 0 | 120 | 120 |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | 3 | 36 | 19 | 55 | 31 | 21 | 52 | 0 | 0 | 0 | 67 | 40 | 107 |
| Nursery raising | 3 | 53 | 22 | 75 | 28 | 7 | 35 | 2 | 3 | 5 | 83 | 32 | 115 |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green | | | | | | | | | | | | | |

| 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 |
| Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | 2 | 22 | 15 | 37 | 7 | 6 | 13 | 0 | 0 | 0 | 29 | 21 | 50 |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | 2 | 38 | 0 | 38 | 17 | 0 | 17 | 0 | 0 | 0 | 55 | 0 | 55 |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | 2 | 39 | 0 | 39 | 42 | 0 | 42 | 0 | 0 | 0 | 81 | 0 | 81 |
| Others, if any | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | 1 | 12 | 7 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 19 |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |

| 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 |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | 6 | 103 | 54 | 157 | 55 | 9 | 64 | 13 | 12 | 25 | 171 | 75 | 246 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |

| 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 |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | 6 | 0 | 29 | 29 | 3 | 15 | 18 | 61 | 81 | 142 | 64 | 125 | 189 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 4 | 28 | 36 | 64 | 15 | 41 | 56 | 0 | 12 | 12 | 43 | 89 | 132 |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any Goat farming | 2 | 29 | 17 | 46 | 6 | 8 | 14 | 0 | 0 | 0 | 35 | 25 | 60 |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction | | | | | | | | | | | | | |

| 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 |
| technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 3 | 0 | 58 | 58 | 0 | 32 | 32 | 0 | 7 | 7 | 0 | 97 | 97 |
| Integrated Disease Management | | | | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |

| 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 |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | | | | |
| Organic manures production | | | | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Small tools and implements | | | | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | 2 | 18 | 28 | 46 | 5 | 3 | 8 | 0 | 0 | 0 | 23 | 31 | 54 |
| Group dynamics | 4 | 68 | 16 | 84 | 32 | 7 | 39 | 9 | 0 | 9 | 109 | 23 | 132 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any (PMFBY) | | | | | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **71** | **945** | **468** | **1413** | **413** | **268** | **681** | **131** | **173** | **304** | **1489** | **909** | **2398** |

**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 | 2 | 12 | 10 | 22 | 6 | 23 | 29 | 0 | 0 | 0 | 18 | 33 | 51 |
| Bee-keeping | 1 | 15 | 0 | 15 | 7 | 0 | 7 | 8 | 0 | 8 | 30 | 0 | 30 |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | 2 | 18 | 12 | 30 | 10 | 10 | 20 | 5 | 10 | 15 | 33 | 32 | 55 |
| Production of organic inputs | 1 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 |

| 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 |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | 1 | 0 | 0 | 0 | 15 | 0 | 15 | 5 | 0 | 5 | 20 | 0 | 20 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | 2 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 15 | 15 | 0 | 45 | 45 |
| Ornamental fisheries | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **TOTAL** | **9** | **55** | **42** | **97** | **38** | **43** | **81** | **18** | **25** | **43** | **111** | **110** | **211** |

**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 | 18 | 540 | 90 | 630 | 90 | 0 | 90 | 0 | 0 | 0 | 630 | 90 | 720 |
| Value addition | | | | | | | | | | | | | |
| Integrated Pest Management | 6 | 180 | 30 | 210 | 30 | | 30 | | | | 210 | 30 | 240 |
| Integrated Nutrient management | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Rejuvenation of old orchards | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Protected cultivation technology | 7 | 210 | 35 | 245 | 35 | 0 | 35 | 0 | 0 | 0 | 245 | 35 | 280 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | 2 | 2 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 9 |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | 1 | 28 | 5 | 33 | 5 | | 5 | | | | 33 | 5 | 38 |
| Care and maintenance of farm machinery and implements | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 29 | 2 | 31 | 5 | | 5 | | | | 34 | 2 | 36 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| **TOTAL** | **39** | **1107** | **182** | **1289** | **185** | **0** | **185** | **0** | **0** | **0** | **1292** | **182** | **1474** |

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

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | 2 | 44 | 26 | 70 | 10 | 4 | 14 | 4 | 1 | 5 | 58 | 31 | 89 |
| Resource Conservation Technologies | 4 | 41 | 41 | 82 | 32 | 15 | 47 | 0 | 8 | 8 | 73 | 64 | 137 |
| Cropping Systems | | | | | | | | | | | | | |
| Crop Diversification | 5 | 77 | 29 | 106 | 15 | 7 | 22 | 1 | 0 | 1 | 93 | 36 | 129 |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Seed production | 1 | 13 | 21 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 21 | 34 |
| Nursery management | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 29 | 44 | 15 | 29 | 44 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Others, (cultivation of crops ) | | | | | | | | | | | | | |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Layout and Management of | | | | | | | | | | | | | |

| 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 |
| Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | 6 | 113 | 39 | 152 | 25 | 4 | 29 | 0 | 0 | 0 | 138 | 43 | 181 |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | 3 | 3 | 46 | 49 | 0 | 0 | 0 | 16 | 32 | 48 | 19 | 78 | 97 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | | | | | | | | | | | | | |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any Goat farming | 2 | 23 | 26 | 49 | 5 | 0 | 5 | 0 | 0 | 0 | 28 | 26 | 54 |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |

| 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 |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 3 | 61 | 29 | 90 | 17 | 6 | 23 | 0 | 0 | 0 | 78 | 35 | 113 |
| Integrated Disease Management | | | | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |

| 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 | | | | | | | | | | | | | |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | 1 | 11 | 17 | 28 | 0 | 9 | 9 | 0 | 0 | 0 | 11 | 26 | 37 |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | | | | |
| Organic manures production | | | | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | | | | |
| Small tools and | | | | | | | | | | | | | |

| 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 |
| implements | | | | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | 2 | 39 | 17 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 17 | 56 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **31** | **425** | **291** | **716** | **104** | **45** | **149** | **36** | **70** | **106** | **565** | **406** | **971** |

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

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | | | | | | | | | | | | | |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |

| 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 |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |

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

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |

| 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 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |

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

**i. Farmers & Farm Women**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | 2 | 44 | 26 | 70 | 10 | 4 | 14 | 4 | 1 | 5 | 58 | 31 | 89 |
| Resource Conservation Technologies | 10 | 193 | 91 | 284 | 44 | 22 | 66 | 6 | 27 | 33 | 243 | 140 | 383 |
| Cropping Systems | | | | | | | | | | | | | |
| Crop Diversification | 14 | 275 | 53 | 328 | 93 | 22 | 115 | 1 | 0 | 1 | 369 | 75 | 444 |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Seed production | 1 | 13 | 21 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 21 | 34 |
| Nursery management | 3 | 7 | 0 | 7 | 0 | 0 | 0 | 29 | 34 | 63 | 36 | 34 | 70 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Others, (cultivation of crops ) | 5 | 84 | 15 | 99 | 20 | 15 | 35 | 11 | 25 | 36 | 115 | 55 | 170 |
| TOTAL | **35** | **616** | **206** | **822** | **167** | **63** | **230** | **51** | **87** | **138** | **834** | **356** | **1190** |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | | | | | | | | | | | | | |
| Enterprise development | 6 | 58 | 26 | 84 | 62 | 14 | 76 | 15 | 9 | 24 | 135 | 49 | 184 |
| Skill development | | | | | | | | | | | | | |
| Yield increment | 4 | 0 | 52 | 52 | 0 | 68 | 68 | 0 | 0 | 0 | 0 | 120 | 120 |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | 3 | 36 | 19 | 55 | 31 | 21 | 52 | 0 | 0 | 0 | 67 | 40 | 107 |
| Nursery raising | 3 | 53 | 22 | 75 | 28 | 7 | 35 | 2 | 3 | 5 | 83 | 32 | 115 |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **16** | **147** | **119** | **266** | **121** | **110** | **231** | **17** | **12** | **29** | **285** | **241** | **526** |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | | | | | | | | | | | | | |
| Layout and Management of Orchards | 2 | 22 | 15 | 37 | 7 | 6 | 13 | 0 | 0 | 0 | 29 | 21 | 50 |

| 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 |
| Cultivation of Fruit | | | | | | | | | | | | | |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | 2 | 38 | 0 | 38 | 17 | 0 | 17 | 0 | 0 | 0 | 55 | 0 | 55 |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | | | | | |
| Others, if any(INM) | | | | | | | | | | | | | |
| TOTAL | **4** | **60** | **15** | **75** | **24** | **6** | **30** | **0** | **0** | **0** | **84** | **21** | **105** |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | 2 | 39 | 0 | 39 | 42 | 0 | 42 | 0 | 0 | 0 | 81 | 0 | 81 |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **2** | **39** | **0** | **39** | **42** | **0** | **42** | **0** | **0** | **0** | **81** | **0** | **81** |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | 1 | 12 | 7 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 19 |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **1** | **12** | **7** | **19** | **0** | **0** | **0** | **0** | **0** | **0** | **12** | **7** | **19** |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |

| 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 |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | 6 | 113 | 39 | 152 | 25 | 4 | 29 | 0 | 0 | 0 | 138 | 43 | 181 |
| Soil and Water Conservation | | | | | | | | | | | | | |
| Integrated Nutrient Management | 6 | 103 | 54 | 157 | 55 | 9 | 64 | 13 | 12 | 25 | 171 | 75 | 246 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **12** | **226** | **78** | **304** | **50** | **8** | **58** | **0** | **0** | **0** | **276** | **86** | **362** |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | 9 | 3 | 75 | 78 | 3 | 15 | 18 | 77 | 113 | 190 | 83 | 203 | 286 |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | 4 | 28 | 36 | 64 | 15 | 41 | 56 | 0 | 12 | 12 | 43 | 89 | 132 |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any (Goat farming) | 4 | 52 | 43 | 95 | 11 | 8 | 19 | 0 | 0 | 0 | 63 | 51 | 114 |
| TOTAL | **17** | **83** | **154** | **237** | **29** | **64** | **93** | **77** | **125** | **202** | **189** | **343** | **532** |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of | | | | | | | | | | | | | |

| 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 |
| rural Women | | | | | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VI. Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 6 | 61 | 87 | 148 | 17 | 38 | 55 | 0 | 7 | 7 | 78 | 132 | 210 |
| Integrated Disease Management | | | | | | | | | | | | | |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **6** | **61** | **87** | **148** | **17** | **38** | **55** | **0** | **7** | **7** | **78** | **132** | **210** |
| **VIII. Fisheries** | | | | | | | | | | | | | |

| 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 |
| Integrated fish farming | 1 | 11 | 17 | 28 | 0 | 9 | 9 | 0 | 0 | 0 | 11 | 26 | 37 |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **1** | **11** | **17** | **28** | **0** | **9** | **9** | **0** | **0** | **0** | **11** | **26** | **37** |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost | | | | | | | | | | | | | |

| 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 |
| production | | | | | | | | | | | | | |
| Organic manures production | | | | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | 2 | 18 | 28 | 46 | 5 | 3 | 8 | 0 | 0 | 0 | 23 | 31 | 54 |
| Group dynamics | 6 | 107 | 33 | 140 | 32 | 7 | 39 | 9 | 0 | 9 | 148 | 40 | 188 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **8** | **125** | **61** | **186** | **37** | **10** | **47** | **9** | **0** | **9** | **171** | **71** | **242** |
| **XI Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | **102** | **1380** | **744** | **2124** | **487** | **308** | **795** | **154** | **231** | **385** | **2021** | **1283** | **3304** |

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

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 2 | 12 | 10 | 22 | 6 | 23 | 29 | 0 | 0 | 0 | 18 | 33 | 51 |
| Bee-keeping | 1 | 15 | 0 | 15 | 7 | 0 | 7 | 8 | 0 | 8 | 30 | 0 | 30 |
| Integrated farming | | | | | | | | | | | | | |
| Seed production | 2 | 18 | 12 | 30 | 10 | 10 | 20 | 5 | 10 | 15 | 33 | 32 | 55 |
| Production of organic inputs | 1 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | 1 | 0 | 0 | 0 | 15 | 0 | 15 | 5 | 0 | 5 | 20 | 0 | 20 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | | | | |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | 2 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 15 | 15 | 0 | 45 | 45 |
| Ornamental fisheries | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | | |
| TOTAL | 9 | 55 | 42 | 97 | 38 | 43 | 81 | 18 | 25 | 43 | 111 | 110 | 211 |

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

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 18 | 540 | 90 | 630 | 90 | 0 | 90 | 0 | 0 | 0 | 630 | 90 | 720 |
| Value addition | | | | | | | | | | | | | |
| Integrated Pest Management | 6 | 180 | 30 | 210 | 30 | | 30 | | | | 210 | 30 | 240 |
| Integrated Nutrient management | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Rejuvenation of old orchards | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Protected cultivation technology | 7 | 210 | 35 | 245 | 35 | 0 | 35 | 0 | 0 | 0 | 245 | 35 | 280 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | 2 | 2 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 9 |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | 1 | 28 | 5 | 33 | 5 | | 5 | | | | 33 | 5 | 38 |
| Care and maintenance of farm machinery and implements | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | 1 | 30 | 5 | 35 | 5 | | 5 | | | | 35 | 5 | 40 |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 29 | 2 | 31 | 5 | | 5 | | | | 34 | 2 | 36 |
| Gender mainstreaming | | | | | | | | | | | | | |

| 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 |
| through SHGs | | | | | | | | | | | | | |
| **TOTAL** | **39** | **1107** | **182** | **1289** | **185** | **0** | **185** | **0** | **0** | **0** | **1292** | **182** | **1474** |

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

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

*H) Vocational training programmes for Rural Youth*

*Details of training programmes for Rural Youth*

| Crop / Enterprise | Identified Thrust Area | Training title* | Duration (days) | No. of Participants | | | Self employed after training | | | Number of persons employed else where |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Male | Female | Total | Type of units | Number of units | Number of persons employed | |
| | | | | | | | | | | |
| | | | | | | | | | | |

*training title should specify the major technology /skill transferred

**I) Sponsored Training Programmes**

| Sl. No | Title | Thematic area | Month | Duration (days) | Client | No. of courses | No. of Participants | | | | | | | | | | Sponsoring Agency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Male | | | Female | | | Total | | | | |
| | | | | | PF/RY/EF | | Others | SC | ST | Others | SC | ST | Others | SC | ST | Total | |
| | | | | | | | | | | | | | | | | | |

**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 | 39 | 485 | 369 | 854 | 50 | 54 | 17 | 71 | 539 | 386 | 925 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KisanMela | 1 | 3251 | 2015 | 5266 | 52.47 | 54 | 6 | 60 | 3305 | 2021 | 5326 |
| KisanGhosthi | | | | | | | | | | | |
| Exhibition | 1 | 336 | 208 | 544 | 45 | 7 | 0 | 7 | 343 | 208 | 551 |
| Film Show | 4 | 256 | 126 | 382 | 45 | 11 | 0 | 11 | 267 | 126 | 393 |
| Method Demonstrations | 3 | 46 | 41 | 87 | 35.8 | 6 | 0 | 6 | 52 | 41 | 93 |
| Farmers Seminar | 12 | 614 | 222 | 836 | 32.4 | 0 | 0 | 0 | 614 | 222 | 836 |
| Workshop | | | | | | | | | | | |
| Group meetings | | | | | | | | | | | |
| Lectures delivered as resource persons | 43 | 1985 | 1135 | 3120 | 25.9 | 32 | 8 | 40 | 2017 | 1143 | 3160 |
| Advisory Services | | | | | | | | | | | |
| Scientific visit to farmers field | 135 | 865 | 489 | 1354 | 50 | 0 | 0 | 0 | 865 | 489 | 1354 |
| Farmers visit to KVK | 174 | 2654 | 789 | 3443 | 30 | 0 | 0 | 0 | 2654 | 789 | 3443 |
| Diagnostic visits | 2 | 32 | 6 | 38 | 24 | 10 | 2 | 12 | 42 | 8 | 50 |
| Exposure visits | 8 | 311 | 39 | 350 | 12 | 25 | 8 | 33 | 336 | 47 | 383 |
| Ex-trainees Sammelan | | | | | | | | | | | |
| Soil health Camp | 1 | 68 | 9 | 77 | 15.5 | 0 | 0 | 0 | 68 | 9 | 77 |
| Animal Health Camp | | | | | | | | | | | |
| Agri mobile clinic | | | | | | | | | | | |
| Soil test campaigns | 2 | 78 | 36 | 114 | 36 | 2 | 0 | 2 | 80 | 36 | 116 |
| Farm Science Club Conveners meet | 1 | 17 | 2 | 19 | 10.5 | 0 | 0 | 0 | 17 | 2 | 19 |
| Self Help Group Conveners meetings | | | | | | | | | | | |
| Mahila Mandals Conveners meetings | | | | | | | | | | | |
| Celebration of important days (specify) | 7 | 359 | 154 | 513 | 45 | 25 | 6 | 31 | 384 | 160 | 544 |
| Sankalp Se Siddhi | 1 | 211 | 129 | 340 | 45 | 5 | 1 | 6 | 216 | 130 | 346 |
| Swatchta Hi Sewa | 30 | 468 | 117 | 585 | 34.7 | 60 | 0 | 60 | 528 | 117 | 645 |
| Mahila Kisan Divas | 1 | 0 | 60 | 60 | 50 | 3 | 4 | 7 | 3 | 64 | 67 |
| Any Other (Specify) | | | | | | | | | | | |
| Total | **465** | **12036** | **5946** | **17337** | **39.9** | **294** | **52** | **279** | **11799** | **5817** | **17616** |

**B. Other Extension activities**

| Nature of Extension Activity | No. of activities |
|---|---|
| Newspaper coverage | 1 |
| Radio talks | 8 |
| TV talks | 5 |
| Popular articles | 3 |
| Extension Literature | 6 |
| Other, if any | |

**3.5 a. Production and supply of Technological products**

***Village seed***

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

***KVK farm***

| Crop | Variety | Quantity of seed (q) | Value (Rs) | Number of farmers to whom seed provided | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Winter Paddy | Swarna Sub 1 | 52 | 79456 | 158 | 36 | 269 | 463 |
| | Swarna Masuri | 28.40 | 43395 | | | | |
| | Pratikha | 27.60 | 42173 | | | | |
| | Satabdi | 4.80 | 7334 | | | | |
| | Radhunipagal | 5.40 | 8251 | | | | |
| | Gobindabhog | 5.20 | 7946 | | | | |
| Mustard | JD-6 | 3 | 9000 | | | | |
| Lentil | | | | | | | |
| Green Gram | Samrat | | | | | | |
| Summer Paddy | Goatra Bidhan 3 | | | | | | |
| | Satabdi | | | | | | |
| Sesame | Sabitri | | | | | | |

**Production of planting materials by the KVKs**

| **Crop** | **Variety** | **No. of planting materials** | **Value (Rs)** | **Provided to number of farmers** | **Remarks** |
|---|---|---|---|---|---|
| **Vegetable seedlings** | | | | | |
| Cauliflower | Dawn, CLR-1008 | 4000 pc. | 22000 | 300 | |
| Cabbage | | | | | |
| Tomato | | 5000.pc | | | |
| Brinjal | Nischintapur | 5000 pc. | | | |
| Chilli | Bullet | 5000 pc | | | |
| Onion | | | | | |
| Casicum | Asha F1 | 3000 pc | | | |
| **Fruits** | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Mango | | | | | |
| Guava | | | | | |
| Lime/citrus | | | | | |
| Papaya | | 50 | | 10 | |
| Banana | | 50 | | 18 | |
| Others | | | | | |
| Ornamental plants(Orchid) | Dendrbium | 3500 | | | |
| Medicinal and Aromatic | | | | | |
| Plantation | | | | | |
| Spices | | | | | |
| Turmeric | | | | | |
| Tuber | | | | | |
| Elephant yams | | | | | |
| Fodder crop saplings | | | | | |
| Forest Species | | | | | |
| Others, pl.specify | | | | | |
| Total | | 25600 | | | |

**Production of Bio-Products**

| Name of product | Quantity Kg | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|
| | | | SC | ST | Other | Total |
| Bio-fertilizers | | | | | | |
| Bio-pesticide | 20 litre | Distributed for demonstration | 3 | 2 | 5 | 10 |
| Bio-fungicide | | | | | | |
| Bio-agents | | | | | | |
| Others, please specify. | 25 tons | Distributed for demonstration | 4 | 3 | 5 | 12 |
| Total | | | | | | |

**Production of livestock materials**

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Dairy animals | | | | | | | |
| Cows | | | | | | | |
| Buffaloes | | | | | | | |
| Calves | | | | | | | |
| Others (Pl. specify) | | | | | | | |
| Small ruminants | | | | | | | |
| Sheep | | | | | | | |
| Goat | Black Bengal | 28 kg meat and 6 kids | 25000 | | | | |
| Other, please specify | | | | | | | |
| Poultry | | | | | | | |
| Broilers | | | | | | | |
| Layers | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Duals (broiler and layer) | Vanaraja | 318 | 50020 | |
| Japanese Quail | | Egg 757 | 1634 | |
| Turkey | | | | |
| Emu | | | | |
| Ducks | Khaki Campbell | 1 bird and egg 211 | 1425 | |
| Others (Pl. specify) | | | | |
| Piggery | | | | |
| Piglet | | | | |
| Hog | | | | |
| Others (Pl. specify) | | | | |
| Fisheries | | | | |
| Indian carp | | | | |
| Exotic carp | | | | |
| Mixed carp | | | | |
| Fish fingerlings | | | | |
| Spawn | | | | |
| Others (Pl. specify) | | | | |
| Grand Total | | | | |

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

**i) Name of Seed Hub Centre: NA**

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

**ii) Quality Seed Production Reports**

| Season | Crop | Variety | Production (q) | | | |
|---|---|---|---|---|---|---|
| | | | Target | Area sown (ha) | Production | Category of Seed (F/S, C/S) |
| Kharif 2018 | | | | | | |
| | | | | | | |
| Rabi 2018-19 | | | | | | |
| | | | | | | |
| Summer/Spring 2019 | | | | | | |

**iii) Financial Progress**

| Fund received (2016-17, 2017-18 and 2018-19) | Expenditure (Rs. in lakhs) | | Unspent balance (Rs. in lakhs) | Remarks |
|---|---|---|---|---|
| | Infrastructure | Revolving fund | | |
| 2016-17 | | | | |
| 2017-18 | | | | |

| | | | | |
|---|---|---|---|---|
| 2018-19 | | | | |

iv) Infrastructure Development

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

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

| Item | Title | Author's name | Number | Circulation |
|---|---|---|---|---|
| Research paper | Emerging cut flowers | Mr. Koushik Nag | | |
| Seminar/conference/ symposia papers | Gender Dimension in Integrated Farming System | Dr. Sudipta Banerjee & Dr. P. P. Pal | | |
| Books | | | | |
| Bulletins | | | | |
| News letter | | | | |
| Popular Articles | | | | |
| Book Chapter | | | | |
| Extension Pamphlets/ literature | | | | |
| Technical reports | | | | |
| Electronic Publication (CD/DVD etc) | | | | |
| TOTAL | | | | |

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

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

| Sl. No. | Name of programme | Name of course | Name of KVK personnel and designation | Date and Duration | Organized by |
|---|---|---|---|---|---|
| 1. | Training cum Workshop | Improved Production Practices for Horticultural Crops | Mr. Koushik Nag, SMS (Horticulture) | 04.04.18-06.04.18 | IIHR-ICAR, Bengaluru |
| 2. | Workshop | Annual Zonal Workshop, Zone V, ICAR | Dr. Sudipta Mukherjee, Senior Scientist & Head | 26.05.18-28.05.18 | ATARI, Zone V at OUAT, Bhubaneswar |
| 3. | Workshop | Write workshop for DAESI Study Material | Dr. Sudipta Banerjee, SMS (Agril. Extension) | 25.06.18-28.06.18 | SAMETI, Narendrapur |
| 4. | Short Course | ICT for NARES | Dr. Sudipta Banerjee, SMS (Agril. Extension) | 13.11.18-22.11.18 | IIHR-ICAR, Bengaluru |
| 5. | Training | Doubvling farmers Income Through Animal Husbandry | Dr. Achintya Banik, SMS (Animal Science) | 09.10.18-11.10.18 | WBUAFS |

| | | | | | |
|---|---|---|---|---|---|
| | | and Fishery Sector: Role of KVK | | | |
| 6. | Training | Urban Horticulture | Mr. Koushik Nag, SMS (Horticulture) | 18.12.18-20.12.18 | SAMETI, Narendrapur |
| 7. | Training | Soil and Water management for KVK SMSs | Dr. Biswajit sarkar, SMS (Agronomy) | 21.01.19-24.01.19 | IIWM, Bhubaneswar |
| 8. | Training | Soil and Water management for KVK SMSs | Ms. Madhurima Mondal, SMS (Soil Science) | 21.01.19-24.01.19 | IIWM, Bhubaneswar |
| 9. | Training cum Workshop | Plant Protection | Mr. Arka Samanta, SMS (Agril. Entomology) | 13.12.18-15.12.18 | ATARI, Zone V, NCIPM |
| 10. | Training | Bee Keeping | Mr. Arka Samanta, SMS (Agril. Entomology) | 01.03.18-08.03.18 | CISH, Malda |
| 11. | Training | Training on E Commerce | Er. Probodh Kumar Verma | 04.02.19-08.02.19 | MANAGE, Hyderabad |

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

<table>
<tr><td>Name of farmer</td><td>Rabi Nath Kanji</td></tr>
<tr><td>Address</td><td>Vill- Abada, PO- Sankrail, Howrah</td></tr>
<tr><td>Contact details (Phone, mobile, email Id)</td><td></td></tr>
<tr><td>Landholding (in ha.)</td><td>0.21</td></tr>
<tr><td>Name and description of the farm/ enterprise</td><td>Integrated farming through land shaping<br>Mr. Kanji purchased one land of 0.21 ha and dug a pond where he rear sweet water fishes like IMC, prawn and Bata fish. In embankment he grows vegetables like cucumber, ridge gourd, snake gourd and cow pea. In rest of the areas he grows vegetables like amaranthus, palak, radish, okra, dolichos bean, brinjal, cabbage, cauliflower and fruit like banana. Besides, he rears duck, fowl goat and ornamental birds.</td></tr>
<tr><td>Economic impact</td><td>
<table>
<tr><td>Items</td><td>Area/No.</td><td>Cost involved (Rs.)</td><td>Gross return (Rs.)</td><td>Net Return (Rs.)</td></tr>
<tr><td>Prawn</td><td>0.13 ha</td><td>10000</td><td>40000</td><td>30000</td></tr>
<tr><td>Fishes</td><td>0.13 ha</td><td>22000</td><td>55000</td><td>33000</td></tr>
<tr><td>Vegetables at embankment</td><td>0.01ha</td><td>6000</td><td>16000</td><td>10000</td></tr>
<tr><td>Vegetables at field</td><td>0.08 ha</td><td>25000</td><td>60000</td><td>35000</td></tr>
<tr><td>Duck</td><td>10</td><td>4000</td><td>7200</td><td>3200</td></tr>
<tr><td>RIR fowl</td><td>40</td><td>9000</td><td>28800</td><td>19800</td></tr>
<tr><td>Goat</td><td>10</td><td>6000</td><td>26000</td><td>20000</td></tr>
</table>
</td></tr>
</table>

| | | | | | | |
|---|---|---|---|---|---|---|
| | Ornamental birds | 50 | 6000 | 20000 | 14000 | |
| | **Total** | | **88000** | **253000** | **165000** | |
| Social impact | His successful Endeavour reached him a better level in the community and now he is chief coordinator of the existing Farmers' Club at the village. | | | | | |
| Environmental impact | | | | | | |
| Horizontal/ Vertical spread | 5 farmers have replicated his farming at their farm. | | | | | |

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

| Sl. No. | Name/ Title of the technology | Name/ Details of the Innovator(s) | Brief details of the Innovative Technology |
|---|---|---|---|
| 1 | Growing leafy vegetables in artificial lighting condition | Mr. Sujoy Bera | Mr. Bera cultivating leafy vegetables like palak, pui in his poly-house and earn adequate returns during off seasons. Now he has introduced artificial light to obtain more vigour of his produce. |

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)**No such ITK found**

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

b. Give details of organic farming practiced by the farmer **Not found**

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

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

| Sl. No. | Brief details of the tool/ methodology followed | Purpose for which the tool was followed |
|---|---|---|
| 1 | • Agro Ecosystem Analysis,<br>• Focused group interview with identified resourceful farmers,<br>• Brain storming for problem identification and prioritization<br>• Joint diagnostic survey<br>• Bench mark survey with semi structured questionnaire<br>• Discussion with the Assistant Director of Agriculture at Block level and Deputy | **Identification of courses for farmers/farm women** |

| | | |
|---|---|---|
| | Director Agriculture at District level | |
| 2 | • Agro Ecosystem Analysis,<br>• Focused group interview with identified resourceful farmers,<br>• Joint diagnostic survey<br>• Discussion with the Assistant Director of Agriculture at Block level and Deputy Director Agriculture at District level | **Identification of courses for Rural Youth** |
| 3 | • Based upon preliminary baseline information of the district and technological intervention needs<br>• Discussion with the Assistant Director of Agriculture at Block level and Deputy Director Agriculture at District level | **Identification of courses for Extension personnel** |

**3.11.a.Details of equipment available in Soiland Water Testing Laboratory**

| Sl. No | Name of the Equipment | Qty. | Cost |
|---|---|---|---|
| 1 | Micro controller based conductivity meter with cells<br>Cells (1.0 CC & 0.1 CC and temp, probe Model-306 | 1 nos. | 17,480.00 |
| 2 | Micro Controller based PH system with electrode & Temp.Probe.(auto temp. compensation,2 point calibration Resol. 0.01 PH) Model-361 | 1 nos. | 16,378.00 |
| 3 | UV-VIS Digital Spectrophotometer (200-1000nm) Model No-118 | 1 nos. | 94,594.00 |
| 4. | Micro controller based Flame photometer with Na,K filters and compressor. Model-128 | 1 nos. | 51,444.00 |
| 5. | Digital Top loading electronic balance Capacity 600gm accuracy 0.01gm | 1 nos. | 45,083.00 |
| 6. | Digital Top loading electronic balance Capacity 300gm accuracy- 0.01gm | 1 nos. | 22,828.00 |
| 7. | Horizontal shaker. Flask capacity 20pcx250ml (Khan type)Speed Control RPM Indicator | 1 nos. | 22,689.00 |
| 8. | Desicator size-300mm dia (Borosil) with vacuum rocker | 1 nos. | 4,695.00 |
| 9. | Digital Soil moisture meter | 1 nos. | 10,500.00 |
| 10. | Nephelo Meter/ Turbidity meter Model No-135 | 1 nos. | 19,003.00 |
| 11. | Hand PH Meter | 1 nos. | 1,995.00 |
| 12. | All glass filter Holder-47mm, Filtration Assembly, 1 lit cap Model-5350 | 1 nos. | 8,881.00 |
| 13. | Soil thermometer size-6” | 1 nos. | 1,240.00 |
| 14. | Soil thermometer size-12” | 1 nos. | 1,273.00 |
| 15. | **Hot Air Oven:--** Size-24”x24”x36” inner body S.S. outer body M.S provision of exhaust. Digital temperature regulator control, with wheel movement system | 1 nos. | 18,875.00 |

| | | | |
|---|---|---|---|
| 16. | Willy Mill Grinder: intermediate model recommended for grinding of samples fitted with fixed motor; 1/4HP, chamber Size-40mm x25mm (Cast steel chamber) | 1 nos. | 15890.00 |
| 17. | Hot Plate S S (Size-18"x24") with energy regulator system.(Sunvim regulator) | 1 nos. | 5,600.00 |
| 18. | Digital Top loading electronic balance Accuracy- 1gm Capacity 15kg | 1 nos. | 8,500.00 |
| 19. | Refrigerator (Double door) 240 lit cap | 1 nos. | 18,500.00 |
| 20. | Mono Quartz Distillation Unit(for single and double distilled water),panel Mounted with Quartz Boiler &Boroailicate Condenser, Vertical Model-3363, with power supply 5 lit cap | 1 nos. | 38,477.00 |
| 21. | Fume Chamber made of outer body M.S. shee/Wooden with powder coating inside SS and Covered by asbestos , front of the glass door (5mm) shutter type high capacity suction bowler (1/2 HP Crompton motor) Size-4 ft.x 2 ft.x2.6 ft | 1 nos. | 44,265.00 |
| 22. | Nitrogen Digestion & Distillation with 500 ml. cap. Kjeldhal flask, head & condenser complete set 5 hole cap. Individual on /off switch. | 1 nos. | 2,16,543.00 |
| 23. | Mridhaparikhshak | 1 no. | 1,31,000.00 |
| | STFR Meter Kit (Model: WST-3128) | 1 no. | 86,000.00 |

3.11.b. Details of samples analyzed so far :

| Number of soil samples analyzed | | | No. of Farmers | No. of Villages | Amount realized (in Rs.) |
|---|---|---|---|---|---|
| Through mini soil testing kit/labs | Through soil testing laboratory | Total | | | |
| | 235 | 235 | 184 | 20 | |
| | | | | | |

3.11.c. Details on World Soil Day

| Sl. No. | Activity | No. of Participants | No. of VIPs | Name (s) of VIP(s) | Number of Soil Health Cards distributed | No. of farmers benefitted |
|---|---|---|---|---|---|---|
| | | | | | | |

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

| No of training programme | No of demonstrations | No of plant material produced | Visit by the farmers | Visit by the officials |
|---|---|---|---|---|
| | | | | |

3.13. Technology week celebration

| Type of activities | No. of activities | Number of participants | Related crop/livestock technology |
|---|---|---|---|
| Farmer-Scientist | 18 numbers | 1789 | Paddy, Vegetables, Flowers, Duck, |

| | | | |
|---|---|---|---|
| Interaction, Soil Health Management, Post harvest of Jute, Animal science, Fishery, Horticulture | | | Poultry, Fish |

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

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

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

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

| Date | Name of the person | Purpose of visit |
|---|---|---|
| 19.07.2018 | Prof. Srikanta Das, D.E.E, B.C.K.V, F.H. Rahman, Principal Scientist, ICAR, ATARI | SAC meeting |
| 16.01.19 | Dr. P. Bandopadhyay, DEE, BCKV, Dr. .S. Singh, Director, ZPD, Zone-V | Technology Week |
| 18.01.2019 | Dr. P. Bandopadhyay, DEE, BCKV | Technology Week |
| 22.01.19 | Dr. Soumen Pal, Scientist, Div of Computer Application, IASRI | Meeting for KVK portal |
| 24.01.19 | Dr. Soumen Pal, Scientist, Div of Computer Application, IASRI | Meeting for KVK portal |

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) |
| Improved package of practice for Ground Nut (variety TG51) | 324 | 57 | 1963/ha/month | 2307/ha/month |
| Protective measures against blast in Paddy | 197 | 42 | 1770/ha/month | 2715/ha/month |
| Application of Gibberellic Acid to augment yield in Cucurbitaceous Crop | 223 | 69 | | |

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 Area in ha/ No. |
| Improved agro-techniques of elephant foot yam(Var. BidhanKusum) | 57.5 |
| Protective measures against blast of summer rice | 196.6 |
| Improved packages of practice of Ground Nut (Var. TG51) | 245.5 |
| Cultivation of Swarna Sub-1 under waterlogged condition | 175.5 |
| Protective measures against hollow heart of Cauliflower | 64.5 |
| Application of Gibberellic Acid to increase yield in Cucurbitaceous Crop | 73 |
| Backyard RIR chicken rearing as a part of village livelihood | 1013 |

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

IMPACT ANALYSIS OF CULTIVATION PRACTICES OF SWARNA SUB-1 UNDER LOW LAND WATER LOGGED CONDITION

## Impact analysis of Swarna sub -1 under low land water logged condition in Howrah District

Swarna sub 1 variety of paddy is cultivated in the low land water logged situation under technical supervision of Howrah KVK. Swarna sub 1 is a winter paddy cultivated in the kharif season. From 2011-2016, it has been cultivated in Jagatballavpur, Amta blocks and there is a positive trend has been noticed in percentage of yield and also in Cost Benefit ratio.

### Changes in production level

In 2011, 6 farmers cultivate the Swarna sub 1 variety in low land water logged situation in kharif season in 3.0 ha area. At the time of demonstration yield per hector area was 54.6q and at the time of check yield was 49.8q/ha. The changes occurs in yield was 9.64%. In 2012 total 16 farmers cultivate the Swarna sub-1 variety in 5.2ha area and yield was at the demonstration time 53.3q/ha and at the check time yield was 49.9q/ha and the percentage change in yield is 6.38%. In the year 2013 Swarna sub 1 was cultivated by 20 farmers in 6.5 ha area and yield was in demonstrated land 53.8q/ha and in check land was 48.5%. There is yield increase in 2013 to a tune of 10.9%. In the year 2014, 79 farmers cultivated Swarna sub 1 variety in 13.67ha area. In this year yield in demonstrated land was 53.6q/ha and in check land was 48.3q/ha. Increase in yield in this year is 10.98%. Similarly in the year 2015, 48 farmers cultivated this variety in 13.3ha land and the production was 53.4q/ha in demonstrated land and in check land production was 48.1qha. Total increase in production level is 11.01%. In the last year 2016, 45 numbers of farmers cultivated this variety in low land and water logged situation in 12.3ha area. Yield in demonstration field was 54.6q/ha and in check land production level was 49.4q/ha. The production level increases to 10.52%. It has been observed that simultaneously from 2011 to 2016 there is manifold increase in the numbers of cultivated farmers as well as yield level. Highest numbers of farmers are involved in 2014 years in cultivation of Swarna sub 1variety and highest production level changed occurs in 2015. In 2015 there was devastating flood in Howrah District during July-August and cultivated lands were under water

logged for 12-15 days. In spite of that highest yield level achieved in 2015 which proves the characteristics of Swarna Sub I variety of Paddy.

## Economic level change

There are two parts of economic level analysis in Swarna sub 1 paddy variety, viz. economics in demonstration filed and economics in check field.

In demonstration field in 2011 gross cost was Rs.28,125/-/ha area and gross return from this field was Rs.46,410/-/ha area. Net return from demonstrated field was Rs.18,285/-/ha area. Cost Benefit ratio of this field was 1.65:1. In check land field Rs.27,925/-/ha and gross return was Rs.39,840/-/ha land. Net return from this field in the year 2011 wasRs.11,915/-/ha and Cost Benefit ratio was 1.42:1.

In the year 2012 in the demonstration land gross cost was Rs.30,750/-ha where the gross return was Rs.50,635/-/ha . Net return from this field was Rs.19885/-/ha and Cost Benefit ratio of this field was 1 .64:1. In this year in the check land field the gross cost was Rs.30,600/-/ha where he got gross return from this field was Rs.44,910/-/ha and the cost benefit ratio was 1.46:1.

In the year 2013 gross cost in demonstration field was Rs.31,500/-/ha where he got gross return of Rs.53,800/-, net return from this field was Rs,22,300/-/ha area. Cost Benefit ratio of this field was 1.70:1. In this in check land gross cost is Rs.31,000/-area and gross return from this field is Rs.48,500/-/ha land. Net return he got from this field was Rs.17,500/-/ha area. Cost Benefit ratio of this field was 1.56:1.

In the year 2014 in demonstration field gross cost was Rs.32,500/-/ha and gross return from this field was Rs.53,600/-/ha and net return from this field was Rs.21,100/-/ha. Cost Benefit ratio of this field was 1.65:1. In check land gross cost is Rs.32,000/-/ha and gross return is Rs.48,300/-/ha. Net return from this field is Rs.16,300/-/ha. Cost Benefit ratio of this field was 1.50:1.

In the year 2015 in demonstration field gross cost was Rs.35,100/-/ha and gross return from this field was Rs.58,740/-/ha. Net return from this field was Rs.23,640/-/ha. Cost Benefit ration of this field was 1.67:1. In check land in this year gross income was Rs.34,600/-/ha and gross return was Rs.50,505/-/ha. Net return from this field was Rs.15,905/-/ha. Cost benefit ratio of this field was 1.46:1.

In the year 2016 in demonstration field gross cost was Rs.36,200/-/ha and gross return from this field was Rs.60,060/-/ha. Net return from this field was Rs.23,860/-/ha .Cost Benefit ratio of this field was 1.66:1. In check land field gross cost was Rs.35,700/-/ha and gross return was Rs.54,450/-/ha land. Net return from this land was Rs.18,750/-/ha. Cost Benefit ratio of this field was 1.52:1.

From the cost benefit analysis of the field from 2011-2016 it has been observed that the net return is increasing year after year which in turn augment Cost Benefit ratio.

## Concluding remarks

There is horizontal increase in area from 2011 to 2016 and the productivity level also increases. The percentage of change yield varies in between 9.64% to 11.01%. Highest yield change observes in 2015 which is 11.01%. Cost Benefit ratio also makes a positive impact in respect to increase in per capita income of farmers.

### 4.4. Details of innovations recorded by the KVK

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

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

- KVK has taken initiative for farmers/scientist interaction in KVK under ATMA programme.
- KVK conducted Extension Functionaries training for BTM under ATMA during 13th, 15th and 16th February 2018.
- NABARD has identified Howrah KVK as POPI (Promotion of Producer Organization) in Howwrah district.
- As decided by SAMETY, Narendrapur Howrah KVK has started 2nd programme on Diploma of Agriculture Extension programme for Input Dealers (DAESI) from 1/11/2018. 40 numbers of Agriculture dealers from various blocks of the district have been selected by Agriculture Department, Howrah. The trainings are being imparted by KVK scientists/Experts from BCKV/Agriculture Department/ICAR.

5. LINKAGES

5.1. Functional linkage with different organizations

| **Name of organization** | **Nature of linkage** |
|---|---|
| NABARD | FPO |
| Department of Agriculture, Howrah District | Joint visit |
| NIRJAFT, ICAR | Value Addition of Jute |
| ATMA | Short Term Research, Front Line Demonstration, Farmer/Scientist Interaction |

5.2. List of special programmes undertaken during 2018-19 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development
NIL

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

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

| Total | | | | |
|---|---|---|---|---|
| **Name of the programme/scheme** | **Purpose of programme** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Sankalp Siddhi Diwas | To disseminate ICAR's vision by 2022 | August'2018 | ICAR | - |
| Short Term Research and Front Line Demonstration | To disseminate KVK's technologies to blocks | October '2018 | ATMA | 5,00,000 |
| World Soil Health Day | To create awareness to farmers about soil health Management | December'2018 | ICAR | - |
| Rabi Kisan Sammelan and Technoy week | To disseminate KVK's technologies and various government schemes to farmers | January '2018 | ICAR | 4,80,000 |
| Farmers Scientist Interaction (2 Nos) | To know and solve farmers problem and give proper solutions | November 2018 and January 2019 | ATMA | 40,000 |

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

| Sl. No. | Name of demo Unit | Year of estt. | Area (Sq.mt) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety/breed | Produce | Qty. | Cost of inputs | Gross income | |
| 1. | Poly House | 2015 | 250 | Mokara & Vanda Orchid | Cut Flower | Under Production | 1.8 Lac. | Yet to come | Plantation on 2018 |
| 2. | Shed House | 2015 | 250 | Dendrobium (Singapore White, Sonia & Airy Peach) | Cut Flower | 2000 | 6000 | 9795 | Var – Airy Peach(1600) under 1st year production |
| 3. | Green House | 2012 | 500 | -- | -- | -- | -- | -- | Green house is damaged condition (Require complete change of polythene |
| 4. | Bee Keeping | 2018 | 20 box | Apis melifera | | | | | Just started |
| 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 | |
| Winter Paddy | 20.07.2018 To 27.07.2018 | 08.12.2018 | 1.60 | Swarna Sub 1 | Certified | 52 | 1,81,898 | 1,20,755 (Cash) 67,840 (Kind) | |
| | | 08.12.2018 | 0.80 | Swarna Masuri | Certified | 28.40 | | | |
| | | 08.12.2018 | 0.80 | Pratikha | Certified | 27.60 | | | |
| | | 15.11.2018 | 0.80 | Satabdi | Certified | 4.80 | | | |
| | | 20.12.2018 | 0.26 | Radhunipagal | TL | 5.40 | | | |
| | | 20.12.2018 | 0.20 | Gobindabhog | TL | 5.20 | | | |
| Mustard | 01.12.2018 | 05.03.2019 To 09.03.2019 | 1.06 | JD-6 | TL | 3 | 12,984 | 9000 | |
| Lentil | 01.12.2018 | -- | 0.4 | | TL | -- | | -- | Crop damaged due to continuous heavy rain for 3 days during crop growing period |
| Green Gram | 15.02.2019 | -- | 0.06 | Samrat | TL | -- | 590 | | |
| Summer Paddy | 10.01.2019 To 14.01.2019 | Crops is in Field | 1.02 | Goatra Bidhan 3 | TL | Crops is in Field | | | |
| | | | | Satabdi | TL | | | | |
| Sesame | 04.03.2019 | Crop is in field | 0.8 | Sabitri | TL | Crop is in field | | | |

## 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. | Bio-pesticide | 20 litre | 700 | - | Distributed among farmers |
| 2. | Compost | 25 ton | 10000 | - | Do |

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

| 1 | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|
| | | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | Poultry | Vanaraja | -- | Bird - 318 | 59,583 | 50,020* | |
| 2. | Duckery | Khaki Campbell | -- | Bird – 1<br>Egg – 211 | | 1425** | |
| 3. | Goatery | Black Bengal | -- | 28 kg | | 25,000# | |
| 4 | Quail bird | Japanese Quail | -- | Egg-757 | | 1634## | |
| Total | | | | | 59,583 | 78,079 | |

**Including stock * Foul – 14 & Chicks – 50, ** Duckling – 3, # Kids – 6, ## Chicks of Quail - 3**

6.5. Utilization of hostel facilities

**Ground floor has just completed with 15 nos. of bed**

Accommodation available (No. of beds)

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

(For whole of the year)

6.6.Utilization of staff quarters

Whether staff quarters has been completed: yes
No. of staffquarters:6
Date of completion: 2007. Quarters allotted to 6 staff members from October 2013. At present all the quarters are in dilapidated condition. University Engineer inspected and reported that all quarters need repairing to make fit for dwelling purpose.

Occupancy details:

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

## 7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number |
|---|---|---|---|
| Howrah Krishi Vigyan Kendra | SBI, Jagatballavpur Branch | Jagatballavpur IFSC Code- SBIN0011388 | 30781940677 |
| Howrah Krishi Vigyan Kendra (Revolving Fund) | SBI, Jagatballavpur Branch | Jagatballavpur IFSC Code- SBIN0011388 | 30781901252 |
| Howrah Krishi Vigyan Kendra (ATMA) | SBI, Jagatballavpur Branch | Jagatballavpur IFSC Code- SBIN0011388 | 34823728873 |

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 | |
| Mustard | | 60000 | | 57832 | 2168 |
| | | | | | |
| | | | | | |
| | | | | | |

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

| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2019 |
|---|---|---|---|---|---|
| | Kharif | Rabi | Kharif | Rabi | |
| Lentil | | 90000 | | 86599 | 3401 |
| Greengram | | 270000 | | 253207 | 16793 |

7.4. Utilization of KVK funds during the year 2018-19 (Not audited)

| Sl. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 11200000 | 11200000 | 11234461 |
| 2 | Traveling allowances | 90000 | 90000 | 90000 |
| 3 | HRD | 10000 | 10000 | 8660 |
| 4 | Contingencies | 1150000 | 1150000 | 1150000 |
| *A* | Stationery, telephone, postage and other office charges | | | |
| *B* | POL, repair of vehicle, tractor and equipment | | | |
| *C* | Training of farmers | | | |
| *D* | Training materials (poster, charts, demonstration material including chemical etc. required for conducting the training | | | |
| *E* | Training of extension functionaries | | | |
| *F* | Training of rural youth | | | |
| *G* | Frontline demonstration (minimum of 100 demonstration in a year) | | | |
| *H* | On-farm testing ( on need based, location specific and newly generated information in the major production systems of the year) | | | |
| *I* | District Kisan Mela | 480000 | 480000 | 480000 |
| *J* | Swachhta Expenditure | | | |
| TOTAL (A) | | 12930000 | 12930000 | 12963121 |
| B. Non-Recurring Contingencies | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

| | | | |
|---|---|---|---|
| TOTAL (B) | 0 | 0 | 0 |
| C. REVOLVING FUND | | | |
| GRAND TOTAL (A+B+C) | 12930000 | 12930000 | 12963121 |

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

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1st April of each year (Kind + cash) |
|---|---|---|---|---|
| 2015-16 | 3.8 | 2,09,000 | 3,87,320 | 2,01,683 +1.0 as kind |
| 2016-17 | 3,01,683 | 5,58,661 | 4,53,854 | 4,06,490 + 3.0 as kind |
| 2017-18 | 7,06,490 | 4,06,490 | 3,77,032 | 4,10,237+2.85 as kind |
| 2018-19 | 6,95,237 | 4,47,926 | 5,04,844 | 6,38,319 + 3.1 as kind + 7.5 as asset (not for sale) |

7.6. (i) Number of SHGs formed by KVKs : 9

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

Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities.

Ambuja Cement Foundation, Sankrail, Srijani Foundation, Amta, Baniban Farmers club, Shealdanga SHG in collaboration with KVK has developed strong linkages with DRDC, Howrah. KVK is conducting Awareness Programme of SHGs through Value addition of Jute/Vegetables, Production of Organic Manure, Poultry, Duck Training and Demonstration programme.

(iii) Details of marketing channels created for the SHGs

Srijani group of Dhurkhali has formed excellent marketing channel to sale groundnut through Howrah KVK and NABARD

7.7. Joint activity carried out with line departments and ATMA

| Nameof activity | Number of activity | Season | With line department | With ATMA | With both |
|---|---|---|---|---|---|
| PRA | 6 numbers | Khariff, Boro | | Yes | |
| Awareness programme on Poultry and Goat Management | 8 numbers | Khariff, boro | Animal Husbandry department | | Yes |
| Para Veterinary Training | 4 numbers | Boro, Summer | Animal Husbandry department | | |

8. Other information

8.1. Prevalent diseases in Crops **No major disease occurred**

| Name of the disease | Crop | Date of outbreak | Area affected (in ha) | % Commodity loss | Preventive measures taken for area (in ha) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

8.2. Prevalent diseases in Livestock/Fishery **No major disease occurred**

| Name of the disease | Species affected | Date of outbreak | Number of death/ Morbidity rate (%) | Number of animals vaccinated | Preventive measures taken in pond (in ha) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

9.1. Nehru YuvaKendra(NYK) Training **NA**

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

9.2. PPV & FR Sensitization training Programme NA

| 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 | 10 | |
| Livestock | 2 | |
| Fishery | | |
| Weather | 3 | |
| Marketing | | |
| Awareness | 1 | |
| Training information | | |
| Other | | |
| **Total** | 16 | 55235 |

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. a. Observation of Swachh Bharat Programme

| Date/ Duration of Observation | Activities undertaken |
|---|---|
| 21/9/2018, 22/9/2018, 25/9/2018, 26/9/2018, 1/10/2018, 2/10/2018 | 6 numbers of programme on Swachhta Pakhwara were conducted in adopted villages of KVK. 230 numbers of farmers participated in programme. Awareness camp was organised |

b. Details of Swachhta activities with expenditure

| **Activities** | **Number** | **Expenditure (in Rs.)** |
|---|---|---|
| 1. Digitization of office records/ e-office | 2 | 1000 |
| 2. Basic maintenance | | |
| 3. Sanitation and SBM | | |
| 4. Cleaning and beautification of surrounding areas | 5 | 5000 |
| 5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste | 3 | 3000 |
| 6. Used water for agriculture/ horticulture application | 6 | 2500 |
| 7. Swachhta Awareness at local level | 5 | 2000 |
| 8. Swachhta Workshops | 1 | 3000 |
| 9. Swachhta Pledge | 0 | 0 |
| 10. Display and Banner | 5 | 1000 |
| 11. Foster healthy competition | | |
| 12. Involvement of print and electronic media | | |
| 13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | | |
| 14. No of Staff members involved in the activities | | |
| 15. No of VIP/VVIPs involved in the activities | | |
| 16. Any other specific activity (in details) | | |
| **Total** | | |

9.6. Observation of National Science day

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

9.7. Programme with SeemaSurakshaBal/ BSF **NA**

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

9.8. Agriculture Knowledge in rural school

| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
|---|---|---|---|
| Garbelia High School, Munsirhat | 21/09/2018 | Vegetables, Fruits, Vermicompost, Poultry | LCD Projector, Screen, Computer, Board |
| Domjur Boys School | 08/12/2018 | Vegetables, fruits, Poultry, Duck, Goat, Vermicompost | LCD Projector, Screen, Computer, Board |

Give good quality 1-2 photograph(s)

9.9. Details of '*Pre-Rabi Campaign'* Programme

| Date of programme | No. of Union Ministers attended the programme | No. of Hon'ble MPs (Loksabha / Rajyasabha) participated | No. of State Govt. Ministers | Participants (No.) | | | | | | | Coverage by Door Darshan (Yes/No) | Coverage by other channels (Number) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MLAs Attended the programme | Chairman ZilaPanchayat | Distt. Collector/ DM | Bank Officials | Farmers | Govt. Officials, PRI members etc. | Total | | |
| | | | | | | | | | | | | |

9.10. Details of Swachhta Hi Sewaprogramme organized

| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---|---|---|---|---|---|
| 1 | Awareness programme | 10 | 585 | 0 | 0 |

9.11. Details of MahilaKisan Divas programme organized

| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---|---|---|---|---|---|
| 1 | 15/10/2018 | 10 | 60* | 2 | Mrs. Mandira Chowdhury, VO, JBPur<br>Mrs. Sulekha Roy, DDM, NABARD |

* due to Durgapuja the number has been decreased

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

| Sl no. | Name of the farmer | Address | Tel. No. | Innovation/ Leading in enterprise |
|---|---|---|---|---|
| 1 | SUJOY BERA | Chandrapur, Bagnan | **9932936295** | **Hi Tech Horticulture** |
| 2 | SHOVA NASKAR | Domjur | **9007623769** | **Pig farming** |
| 3 | TRIPURA PANJA | Udaynarayanpur | **9830659002** | **Unconventional vegetables** |
| 4 | SK. ABDUL HANIF | Sankrail | **9339525994** | **Vermicompost** |
| 5 | SUBRATA BASU MALLICK | Jagatballavpur | **9002700497** | **Oilseed and Pulses** |
| 6 | MONIKA KOLEY | Amta | **9800623426** | **Groundnut** |
| 7 | AMITESH CHANDRA | Uluberia | **9432222798** | **Hi Tech Horticulture** |
| 8 | CHURAMANI MANDAL | Uluberia | **9674117524** | **Bio-pesticides** |
| 9 | PALASH ROY | Sankrail | **9732897781** | **Vegetables** |
| 10 | SAMIR BASUMULLICK | Jhingra | **9002700497** | **Paddy** |
| 11 | PALLAB MUKHERJEE | Jhingra | **9932953545** | **Oilseed and Pulses** |
| 12 | ASHIM PAUL | Bagnan | **9735735336** | **Vegetables** |
| 13 | ROHIT MALIK | Panchla | **9903057175** | **Vegetables** |
| 14 | BANAMALI LAHA | Bargachia | **9593018762** | **Vegetables** |
| 15 | ASTA MALIK | Bargachia | **9775557817** | **Oilseed and Pulses** |
| 16 | SHYAMAL DAS | Bargachia | **9734857490** | **Oilseed and Pulses** |
| 17 | SUSANTA DAS | Bargachia | **9564444403** | **Oilseed and Pulses** |
| 18 | SUBHANKAR PANJA | Udaynarayanpur | | **Oilseed and Pulses** |
| 19 | RATIKANTA KOLEY | Parbarda, Ballichak | **9735368009** | **Oilseed and Pulses** |
| 20 | GOBINDA MONDAL | Parbarda, Ballichak | **3214273127** | **Oilseed and Pulses** |
| 21 | GANESH PATRA | Parbarda, Ballichak | **9647400909** | **Oilseed and Pulses** |
| 22 | ARUN KOLEY | Parbarda, Ballichak | **9933438182** | **Vegetables** |
| 23 | LAKSHMIKANTA KOLEY | Parbarda, Ballichak | **9733773627** | **Vegetables** |
| 24 | PRABIR KARAR | BAJEPRATAPPUR, BALLICHAK | **973507563** | **Vegetables** |
| 25 | APURBA DHARA | BAGLIA, BALLICHAK | **7699143414** | **Vegetables** |
| 26 | SURANJAN MISHRA | JAGATBALLAVPUR | **9732958146** | **Vegetables** |
| 27 | KESHAB PATRA | SIALDANGA | **9647322152** | **Vegetables** |
| 28 | TANMAY CHAKRABORTY | UTTAR SANTOSHPUR | **9609607795** | **Vegetables** |
| 29 | JOGESH DOLUI | Bally Jagacha | **9775006618** | **Vegetables** |
| 30 | ARUN ROY | Bally Jagacha | **9734685448** | **Vegetables** |
| 31 | ASTA SHEE | Bally Jagacha | **9775557817** | **Vegetables** |
| 32 | ANANDA MALIK | Bally Jagacha | **9733673918** | **Vegetables** |

| 33 | SWAPAN MANNA | Bally Jagacha | **9735647413** | **Vegetables** |
|---|---|---|---|---|
| 34 | SAMSUDDIN KHAN | Bally Jagacha | **9733577130** | **Vegetables** |
| 35 | SUJOY KAR | Bally Jagacha | **9732543167** | **Vegetables** |
| 36 | SK SOURAV ALI | Bally Jagacha | **9732763700** | **Vegetables** |
| 37 | BISWAJIT SANTRA | Uluberia | **9477855341** | **Vegetables** |
| 38 | MD. ISRAIL LASKAR | Uluberia | **9748407900** | **Vegetables** |
| 39 | CHURAMANI MANDAL | Uluberia | **9674117524** | **Vegetables** |
| 40 | HIMANSHU KOLEY | Uluberia | **9831397958** | **Vegetables** |
| 41 | ABHIJIT ROY | Uluberia | **9230463634** | **Vegetables** |
| 42 | SHAMBHU NATH SARDAR | Uluberia | **9674117537** | **Vegetables** |
| 43 | BISWAJIT GAYEN | Uluberia | **9051114003** | **Vegetables** |
| 44 | TAPAS PRAMANIK | Uluberia | **9007052272** | **Vegetables** |
| 45 | SANJIB KANJI | Uluberia | **9883059016** | **Vegetables** |
| 46 | CHIRANJIB PRAMANIK | Uluberia | **9143028849** | **Vegetables** |
| 47 | AJIT HALDER | Uluberia | **9874388658** | **Vegetables** |
| 48 | BIMAN SARDAR | Uluberia | **8961907781** | **Vegetables** |
| 49 | GOUTAM PRAMANIK | Uluberia | **9748783467** | **Vegetables** |
| 50 | HEMANTA ISWAR | Uluberia | **9830201954** | **Vegetables** |
| 51 | SHYAMAL KONG | Uluberia | **9143873278** | **Vegetables** |
| 52 | SANJIB KANJI | Uluberia | **9883059016** | **Vegetables** |
| 53 | BISWAJIT HALDER | Uluberia | **9836458087** | **Vegetables** |
| 54 | AMIYA BERA | Uluberia | **9339517217** | **Vegetables** |
| 55 | JAHANGIR SARDAR | Uluberia | **9232610075** | **Vegetables** |
| 56 | SAIFUDDIN SOREN | Uluberia | **9830180903** | **Vegetables** |
| 57 | OSMAN SK. | Uluberia | **8981404822** | **Vegetables** |
| 58 | TARIK HOSSAIN HALDER | Uluberia | **8981353043** | **Vegetables** |
| 59 | SOMA MAJHI | Sankrail | **9635091319** | **Vegetables** |
| 60 | PRITIRAJ CHAKRABORTY | Sankrail | **9733773763** | **Vegetables** |
| 61 | SUKHENDU DAS | Sankrail | **9002693844** | **Vegetables** |
| 62 | AMIT KUMAR BANERJEE | Sankrail | **9732713983** | **Vegetables** |
| 63 | SUKANTA MUKHERJEE | Sankrail | **9732730763** | **Vegetables** |
| 64 | MITHUN PAN | Sankrail | **9474129572** | **Vegetables** |
| 65 | SOUMEN MONDAL | Sankrail | **9002694127** | **Vegetables** |
| 66 | NEPAL CHANDRA SAHA | Sankrail | **9933383583** | **Vegetables** |
| 67 | DILIP JANA | Sankrail | **9733585883** | **Vegetables** |
| 68 | TARUN JANA | Sankrail | **9831333600** | **Vegetables** |
| 69 | ASISH BANERJEE | Sankrail | **9434613226** | **Vegetables** |
| 70 | RAMA SHAW | Abada | **9874968049** | **Vegetables** |
| 71 | EKADASHI MANNA | Abada | **9874379133** | **Vegetables** |
| 72 | RINKU MAL | Abada | **9874194643** | **Vegetables** |
| 73 | ARCHANA MAL | Abada | **9735780518** | **Vegetables** |
| 74 | PRIYAJIT PAL | Abada | **9733926295** | **Vegetables** |

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|---|---|---|---|---|
| 75 | MANORANJAN SAMANTA | Abada | **9874917658** | **Vegetables** |
| 76 | SK USMAN | Abada | **8981404822** | **Vegetables** |
| 77 | GANESH MAKAL | Abada | **9239318395** | **Vegetables** |
| 78 | SANDIP BAR | Abada | **8961157368** | **Vegetables** |
| 79 | MAHADEB MAJHI | Abada | **9748460503** | **Vegetables** |
| 80 | PARIMAL KUMAR DHARA | Abada | **9233110016** | **Vegetables** |
| 81 | DEBSISH MONDAL | Abada | **9735605219** | **Vegetables** |
| 82 | RANJIT BHOWMIK | Abada | **9153632061** | **Vegetables** |
| 83 | PARAMESWAR MONDAL | Abada | **9564902487** | **Vegetables** |
| 84 | MAHADEB MAJHI | Abada | **9748460503** | **Vegetables** |
| 85 | MANORANJAN SAMANTA | Abada | **9874917658** | **Vegetables** |
| 86 | TUSTU DAS | Abada | **9231805356** | **Vegetables** |
| 87 | SRIKANTA SAMANTA | Abada | **9143479465** | **Vegetables** |
| 88 | SUKUMAR DAS | Abada | **9239229011** | **Vegetables** |
| 89 | BYOMKESH DAS | Abada | **9153081090** | **Vegetables** |
| 90 | HARULAL BAG | Abada | **9239202015** | **Vegetables** |
| 91 | MOUMITA SARKAR | Ankurhati | **9830659246** | **Vegetables** |
| 92 | PARESH CHANDRA PATRA | Ankurhati | **9775606186** | **Vegetables** |
| 93 | RANJIT KUMAR POLLEY | Ankurhati | **9474020332** | **Vegetables** |
| 94 | DINESH CHANDRA KINTOMIC | Ankurhati | **9830822474** | **Vegetables** |
| 95 | KARTICK CHANDRA MAJHI | Ankurhati | **9593090332** | **Vegetables** |
| 96 | MANTAJEES HOQUE MULLICK | Ankurhati | **9647691442** | **Vegetables** |
| 97 | BIKASH CHANDRA DAS | Ankurhati | **9143117561** | **Vegetables** |
| 98 | NANDA GOPAL MONDAL | Ankurhati | **9038908090** | **Vegetables** |
| 99 | SANTIC RANJAN | Ankurhati | **9239916120** | **Vegetables** |
| 100 | NARAYAN MAHATO | Ankurhati | **9836506653** | **Vegetables** |
| 101 | SANAT GHOSH | Ankurhati | **9475869209** | **Vegetables** |
| 102 | PRADIP DESHMUKH | Ankurhati | **9674225933** | **Vegetables** |
| 103 | RUPAI HEMBRAM | Ankurhati | **9732780662** | **Vegetables** |
| 104 | SAMIRAN DOARI | Ankurhati | **9674885745** | **Vegetables** |
| 105 | BISWANATH NASKAR | Ankurhati | **9153207195** | **Vegetables** |
| 106 | PRASANTA SAMANTA | Ankurhati | **9732812834** | **Vegetables** |
| 107 | SUSAMA MONDAL | Ankurhati | **9836456008** | **Vegetables** |
| 108 | MRINALINI KHNRA | Ankurhati | **9775619474** | **Vegetables** |
| 109 | SOMA MUKHERJEE | Ankurhati | **8145493944** | **Vegetables** |
| 110 | SUBRATA MANNA | Ankurhati | **9547130160** | **Vegetables** |

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| 111 | GOURI SAHAROY | Ankurhati | **9874639246** | **Vegetables** |
| 112 | PRADIP KUMAR MAITY | Ankurhati | **9775684082** | **Vegetables** |
| 113 | SUNANDA MAITY | Ankurhati | **9474505374** | **Vegetables** |
| 114 | RUPAI HEMBRAM | Ankurhati | **9732780662** | **Vegetables** |
| 115 | PRADIP KUMAR MAITY | Ankurhati | **9775684082** | **Vegetables** |
| 116 | GOURANGA DAS | Ankurhati | **9874424743** | **Vegetables** |
| 117 | PRASANTA SAMANTA | Ankurhati | **9732812834** | **Vegetables** |
| 118 | SAMIRAN DOARI | Ankurhati | **9674885745** | **Vegetables** |
| 119 | BISWANATH NASKAR | Ankurhati | **9153207195** | **Vegetables** |
| 120 | SANAT GHOSH | Ankurhati | **9475869209** | **Vegetables** |
| 121 | SADHANA GUCHAIT | Ankurhati | **8981971269** | **Vegetables** |
| 122 | SHANTI RANJAN PANJA | Ankurhati | **9239916120** | **Vegetables** |
| 123 | NARAYAN CHANDRA MOHANTY | Ankurhati | **9836506653** | **Vegetables** |
| 124 | NUPUR DAS | Jhingra | **8334816248** | **Oilseed and Pulses** |
| 125 | SUMITRA KANRAR | Jhingra | **9775145061** | **Oilseed and Pulses** |
| 126 | ASIMA NATH | Jhingra | **9635447204** | **Oilseed and Pulses** |
| 127 | ALO SASMAL | Jhingra | **9609507142** | **Oilseed and Pulses** |
| 128 | MANA MANNA | Jhingra | **9874511267** | **Oilseed and Pulses** |
| 129 | CHANDANA MANNA | Jhingra | **9593090795** | **Oilseed and Pulses** |
| 130 | SUMITRA MONDAL | Jhingra | **7407731154** | **Oilseed and Pulses** |
| 131 | TAPAS ROY | Jhingra | **9641628736** | **Oilseed and Pulses** |
| 132 | SUZON ROY | Jhingra | **9641628736** | **Oilseed and Pulses** |
| 133 | SRIMANTA DEY | Jhingra | **9732947094** | **Oilseed and Pulses** |
| 134 | TAPAS DEY | Jhingra | **8001604641** | **Oilseed and Pulses** |
| 135 | CHINMOY DEY | Jhingra | **9734736959** | **Oilseed and Pulses** |
| 136 | MOHAN PRAMANIK | Jhingra | **9647955119** | **Oilseed and Pulses** |
| 13 | BHANU PRAKASH PAUL | Shyampur | **9735562895** | **Oilseed and** |

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|---|---|---|---|---|
| 7 | | | | **Pulses** |
| 138 | RAJIT SHEET | Shyampur | **9230178744** | **Oilseed and Pulses** |
| 139 | MAHADEV MAJI | Shyampur | **9748460503** | **Oilseed and Pulses** |
| 140 | AMARENDRA NATH PRDDHAN | Shyampur | **9051489852** | **Oilseed and Pulses** |
| 141 | NIRMAL DAS | Shyampur | **8482094752** | **Oilseed and Pulses** |
| 142 | SUKUMAR DAS | Shyampur | **9051041763** | **Oilseed and Pulses** |
| 143 | SAILENDRANATH PAUL | Shyampur | **9474799602** | **Oilseed and Pulses** |
| 144 | ASSEM KUMAR | Shyampur | **9051748738** | **Oilseed and Pulses** |
| 145 | KASHINATH DHANG | Sitapur | **9732914992** | **Oilseed and Pulses** |
| 146 | MD SAJAHAN MONDAL | Sitapur | **9681622262** | **Oilseed and Pulses** |
| 147 | SUSANTA MONDAL | Sitapur | **9732705024** | **Oilseed and Pulses** |
| 148 | MANIRUL ALI | Sitapur | **9832890687** | **Oilseed and Pulses** |
| 149 | SHYAMAL KHATA | Sitapur | **9831702278** | **Oilseed and Pulses** |
| 150 | TARAPADA DOLUI | Sitapur | **9732817761** | **Oilseed and Pulses** |
| 151 | ADITYA BERA | Sitapur | **9593019006** | **Oilseed and Pulses** |
| 152 | PARESH BISHOYI | Sitapur | **7872149250** | **Oilseed and Pulses** |
| 153 | RAGHUNATH DANDAPATH | Sitapur | **8017648890** | **Oilseed and Pulses** |
| 154 | SHYAMAL MONDAL | Sitapur | **9903672259** | **Oilseed and Pulses** |
| 155 | BUDDHADEV MONDAL | Panchla | **9733961123** | **Oilseed and Pulses** |
| 156 | KASHI NATH DAS | Panchla | **9831299499** | **Oilseed and Pulses** |
| 157 | HOREN BAG | Panchla | **9564062891** | **Oilseed and Pulses** |
| 158 | NETAI BERA | Panchla | **9735426972** | **Oilseed and Pulses** |
| 159 | KONESWAR DHARA | Panchla | **9732428170** | **Oilseed and Pulses** |
| 160 | SWAPON MONDAL | Panchla | **8076168954** | **Oilseed and Pulses** |
| 161 | SUSANTA MALIK | Panchla | **9051830420** | **Oilseed and Pulses** |
| 162 | ALOKE PATRA | Panchla | **9735404025** | **Oilseed and Pulses** |
| 163 | KARTIK BOR | Panchla | **9332046758** | **Oilseed and Pulses** |

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|---|---|---|---|---|
| 164 | AMAL MONDAL | Panchla | **9674477531** | **Oilseed and Pulses** |
| 165 | NEMAI MATOHAL | Panchla | **9831599675** | **Oilseed and Pulses** |
| 166 | SK FIROZ | Panchla | **9748926077** | **Oilseed and Pulses** |
| 167 | ABHIJIT NASKAR | Panchla | **9051777232** | **Oilseed and Pulses** |
| 168 | SUNIL CHANDRA | Panchla | **9735643420** | **Oilseed and Pulses** |
| 169 | PRANAB GURIA | Panchla | **9230437730** | **Oilseed and Pulses** |
| 170 | SANTANU DEYASHI | Dhulaguri | **9733494606** | **Oilseed and Pulses** |
| 171 | INDRA BHUSAN SAMANTA | Dhulaguri | **9836592344** | **Oilseed and Pulses** |
| 172 | DEB KUMAR SAHU | Dhulaguri | **9332802329** | **Oilseed and Pulses** |
| 173 | PRADIM PAUL | Dhulaguri | **9734861375** | **Oilseed and Pulses** |
| 174 | MRINAL KOLEY | Dhulaguri | **9836812987** | **Hi Tech Horticulture** |
| 175 | GOUTAM DAS | Dhulaguri | **9748561436** | **Hi Tech Horticulture** |
| 176 | GOUR MONDAL | Dhulaguri | **9748019237** | **Hi Tech Horticulture** |
| 177 | SUMAN KUMLAY | Dhulaguri | **9143101045** | **Hi Tech Horticulture** |
| 178 | AMIT SANTRA | Dhulaguri | **9874961807** | **Hi Tech Horticulture** |
| 179 | ASIT DOLUI | Dhulaguri | **97328841028** | **Hi Tech Horticulture** |
| 180 | BUKRAMADITYA HAZRA | Dhulaguri | **97336043151** | **Hi Tech Horticulture** |
| 181 | NEMAI MAKHAL | Kanuha | **98312599675** | **Oilseed and Pulses** |
| 182 | SIKHA MISRA | Kanuha | **7501836937** | **Oilseed and Pulses** |
| 183 | NOOR JAHAN BEGAM | Kanuha | **9647055034** | **Oilseed and Pulses** |
| 184 | BRATATI MALICK | Kanuha | **9733550913** | **Oilseed and Pulses** |
| 185 | PARUL MALICK | Kanuha | **9755500913** | **Oilseed and Pulses** |
| 186 | MINATI DAS | Kanuha | **9609690215** | **Oilseed and Pulses** |
| 187 | PALLABI PARAMANIK | Kanuha | **8116285757** | **Oilseed and Pulses** |
| 188 | KANAN DAS | Kanuha | **7602715477** | **Oilseed and Pulses** |
| 189 | SUBHRA PATRA | Kanuha | **9735795296** | **Oilseed and Pulses** |
| 19 | BARNALI PAN | Kanuha | **9735775726** | **Oilseed and** |

| | | | | |
|---|---|---|---|---|
| 0 | | | | **Pulses** |
| 191 | SUJATA PARIA | Kanuha | **9933076980** | **Oilseed and Pulses** |
| 192 | RUPA MAJHI | Godaria | **9775068487** | **Oilseed and Pulses** |
| 193 | NABA KR GHOS | Godaria | **9474403141** | **Oilseed and Pulses** |
| 194 | REKHA BHAKTA | Godaria | **9183469186** | **Oilseed and Pulses** |
| 195 | LAKSHMI OJHA | Godaria | **9143730798** | **Oilseed and Pulses** |
| 196 | MIDDYASABERA BEGAM | Godaria | **9933503539** | **Oilseed and Pulses** |
| 197 | AJMIRA BEGAM | Godaria | **8509751001** | **Oilseed and Pulses** |
| 198 | SURAIYA KHATUN | Godaria | **8145995436** | **Oilseed and Pulses** |
| 199 | RUMA LAILA BEGUM | Godaria | **8158896371** | **Oilseed and Pulses** |
| 200 | NOORUNNESHA BEGUM | Godaria | **9800548046** | **Oilseed and Pulses** |
| 201 | HALIM BEGAM | Godaria | **9933060881** | **Oilseed and Pulses** |
| 202 | JARINA BEGAM | Godaria | **9647180080** | **Oilseed and Pulses** |
| 203 | ANESHA BEGAM | Godaria | **9647353835** | **Oilseed and Pulses** |
| 204 | SIDHU MANNA | Godaria | **8145993444** | **Oilseed and Pulses** |
| 205 | BHARATI MAL | Godaria | **9785775748** | **Oilseed and Pulses** |
| 206 | FULESWARI ADAK | Godaria | **9748563661** | **Oilseed and Pulses** |
| 207 | MOONMOON HAZRA | Godaria | **9775219394** | **Oilseed and Pulses** |
| 208 | SUSHAMA BAG | Godaria | **9093576181** | **Oilseed and Pulses** |
| 209 | KAJAL BAG | Godaria | **9007829473** | **Oilseed and Pulses** |
| 210 | SHANTOSH GHANTI | Godaria | **8981252873** | **Oilseed and Pulses** |
| 211 | RANJIT MAKHAL | Batul | **9143567828** | **Oilseed and Pulses** |
| 212 | SUKDEV MALIK | Batul | **8981252873** | **Oilseed and Pulses** |
| 213 | NIKHIL SAHOO | Batul | **9874526580** | **Oilseed and Pulses** |
| 214 | RAGUNATH MATA | Batul | **8697248807** | **Oilseed and Pulses** |
| 215 | NITYANANDA SARDAR | Batul | **9230463435** | **Oilseed and Pulses** |
| 216 | BINAPANI KANJI | Batul | **9748317061** | **Oilseed and Pulses** |

| | | | | |
|---|---|---|---|---|
| 217 | JHARNA KANJI | Batul | **8420389759** | **Oilseed and Pulses** |
| 218 | SABITA DHARA | Batul | **9330977638** | **Oilseed and Pulses** |
| 219 | MANOKA KUMIR | Batul | **9230328958** | **Oilseed and Pulses** |
| 220 | RITA MAKHAL | Batul | **8981168851** | **Oilseed and Pulses** |
| 221 | ARATI DAS | Batul | **8001117330** | **Oilseed and Pulses** |
| 222 | SK HARUN | Batul | **8348050092** | **Oilseed and Pulses** |
| 223 | ASIM KR SIT | Batul | **8348049438** | **Oilseed and Pulses** |
| 224 | MAHADEV MAJHI | Batul | **9748460503** | **Oilseed and Pulses** |
| 225 | GURUPADA MULICK | Batul | **9593095806** | **Oilseed and Pulses** |
| 226 | PRABHAT ADHIKARY | Nuntia | **8768721544** | **Horticulture Nursery** |
| 227 | SUBIR SANTRA | Nuntia | **9832707532** | **Horticulture Nursery** |
| 228 | UTPAL MAITY | Nuntia | **9734383792** | **Horticulture Nursery** |
| 229 | ABHIJIT GHOSH | Jagadishpur | **9800376783** | **Oilseed and Pulses** |
| 230 | SK MANAAR ALI | Jagadishpur | **9609429469** | **Oilseed and Pulses** |
| 231 | SUNIL SAU | Jagadishpur | **9233243878** | **Oilseed and Pulses** |
| 232 | NANDA SIT | Jagadishpur | **7699324241** | **Oilseed and Pulses** |
| 233 | HARENDRANATH PARAMANIK | Jagadishpur | **9635034521** | **Oilseed and Pulses** |
| 234 | SK FIROZUDDIN | Jagadishpur | **9735385759** | **Oilseed and Pulses** |
| 235 | SK DAYAN ALI | Jagadishpur | **9093376657** | **Oilseed and Pulses** |
| 236 | KALIDAS CHANDAN | Jagadishpur | **9775030689** | **Oilseed and Pulses** |
| 237 | CHINMOY JANA | Jagadishpur | **9733961120** | **Oilseed and Pulses** |
| 238 | BIBHAS PANJA | Jagadishpur | **9593068590** | **Oilseed and Pulses** |
| 239 | SAJAL MAITY | Jagadishpur | **9733637226** | **Oilseed and Pulses** |
| 240 | SAMARENDRATH MAITY | Jagadishpur | **9093857657** | **Oilseed and Pulses** |
| 241 | TARAPADA MAIK | Jagadishpur | **3214258016** | **Oilseed and Pulses** |
| 242 | NETAI DAS | Jagadishpur | **9732947094** | **Oilseed and Pulses** |
| 24 | SRITANGSU NATH | Jagadishpur | **8001002404** | **Oilseed and** |

| | | | | |
|---|---|---|---|---|
| 3 | | | | **Pulses** |
| 244 | NETAI CHARAN | Jagadishpur | **9775154424** | **Oilseed and Pulses** |
| 245 | SK MANJUR ALI | Jagadishpur | **9831558420** | **Oilseed and Pulses** |
| 246 | ARUN KR KHAN | Jagadishpur | **9732919740** | **Oilseed and Pulses** |
| 247 | RAHIT KR MALLIK | Jagadishpur | **9903057175** | **Oilseed and Pulses** |
| 248 | SRIMANTA KUNDU | Jagadishpur | **9051902302** | **Oilseed and Pulses** |
| 249 | NABAKUMAR MANNA | Jagadishpur | **9836007262** | **Oilseed and Pulses** |
| 250 | GOBINDA MONDAL | Jagadishpur | **3214273127** | **Oilseed and Pulses** |
| 251 | KAKALI MONDAL | Bargachia | **9477169210** | **Oilseed and Pulses** |
| 252 | BASANTI MAITY | Bargachia | **9635002872** | **Oilseed and Pulses** |
| 253 | JHARNA METE | Bargachia | **9674584745** | **Oilseed and Pulses** |
| 254 | BASANTI MAL | Bargachia | **9732988532** | **Oilseed and Pulses** |
| 255 | SULATA MONDAL | Bargachia | **9733682964** | **Oilseed and Pulses** |
| 256 | CHAPA BAG | Bargachia | **8116479585** | **Oilseed and Pulses** |
| 257 | BIVA CHANDRA | Bargachia | **8768476420** | **Oilseed and Pulses** |
| 258 | ANUVA NAG | Bargachia | **9733680330** | **Oilseed and Pulses** |
| 259 | BEBI BEGUM NASKAR | Bargachia | **9733518454** | **Oilseed and Pulses** |
| 260 | SUNIL KR. SINGHA | Bargachia | **8509382131** | **Oilseed and Pulses** |
| 261 | RITA MONDAL | Bargachia | **9775531941** | **Oilseed and Pulses** |
| 262 | ALPANA BAG | Bargachia | **8101689591** | **Oilseed and Pulses** |
| 263 | SITANSU KR. NATH | Bargachia | **8101133621** | **Oilseed and Pulses** |
| 264 | DILA MAJI | Bargachia | **9800922766** | **Oilseed and Pulses** |

9.13. Revenue generation

| Sl.No. | Name of Head | Income(Rs.) | Sponsoring agency |
|---|---|---|---|
| 1. | DAESI | 40000.00 | MANAGE, Hyderabad |
| 2. | | | |
| 3. | | | |

9.14. Resource Generation:

| Sl.No. | Name of the programme | Purpose of the programme | Sources of fund | Amount (Rs. lakhs) | Infrastructure created |
|---|---|---|---|---|---|
| 1. | Vermicompost Unit development | To produce vermicompost at KVK | ATMA, Howrah | **1.0** | **Yes** |
| 2. | Bee Keeping Unit | Better pollination at KVK farm Production of honey | ATMA, Howrah | **2.0** | **Yes** |

9.15. Performance of Automatic Weather Station in KVK

| Date of establishment | Source of funding i.e. IMD/ICAR/Others (pl. specify) | Present status of functioning |
|---|---|---|
| 25.02.2013 | IMD | functioning |
| | | |

9.16. 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 |
|---|---|---|---|---|---|
| West Bengal | Howrah | Crop diversification | 10 | 368 | Sowing of short duration paddy variety like IET-4786, IET-4094 etc. in seed bed.<br>If seedling is available from any source transplantation preferably Swarna Sub-1 to be done as early as possible.<br>Sowing of Black gram seed in mid August onwards up to mid September (Var: Sarada)<br>Sowing of Toria during 1$^{st}$ week of September variey Agroni, Panchali etc. |

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

a) Year: 2018-19
b) Introduction / General Information:

| | Title | Objective | Treatment details | Date of sowing | Replication | Result with photographs |
|---|---|---|---|---|---|---|
| Experiment 1 | | | | | | |
| Experiment 2 | | | | | | |
| Experiment 3 | | | | | | |
| … | | | | | | |
| .. | | | | | | |
| Others (If any) | Production Practice Survey | Data collection on farmers practice | NA | | | |

11. Details of TSP **NA**

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

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

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

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

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

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

| Sl. No. | Name of the Award | Name of the Farmer | Year | Conferring Authority | Amount | Purpose |
|---|---|---|---|---|---|---|
| 1. | Innovative Farmer | Sujoy Bera | 2019 | (FFCSWR-2019) | - | |
| 2. | Innovative Farmer | Churamani Mondal | 2019 | (FFCSWR 2019 | - | |
| 3. | Innovative Farmer | Sk. Hanif | 2019 | (FFCSWR 2019 | - | |

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

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

| Sl. No. | Name of the organization/ Society | Trust Deed No.& date | Date of Trust Registration Address | Proposed Activity | Commodity Identified | No. of Members | Financial position (Rupees in lakh) | Success indicator |
|---|---|---|---|---|---|---|---|---|
| 1 | Srijonee Gram Unnayan Trust | 14138/14 22.11.2014 | Vill+PO Dhurkhali PS- AMTA Howrah711410 | Post Harvest management of groundnut | Groundnut | 380 | 5.0 | |

16. Integrated Farming System (IFS)

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. | Crop (Paddy/Vegetable)+Fish +Poultry+ Goat<br>Crop based: Paddy<br>Livestock based: Poultry, Goat<br>Horticulture based: Cucurbitaceous, Solaneceous, Cole Crop | 1.0 | Paddy: 20 tons<br>Sesame: 3 tons<br>Green gram: 0.3 ton<br>Vegetable: 1 ton | 79,700/- | 2,49,500/- | 4 | 5 |

17. 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 Paddy through SRI | | | | |
| 2 | Cultivation of Swarna Sub-1 under waterlogged condition | | | | |
| 3. | Usage of optimum dose of Zinc to in areas having deficiency of Zn. | | | | |
| 4. | Effective measures to control blast in Paddy with Tricyclazole 75 W.P. @1.2 gram | | | | |
| 5. | Control of Sheath blight of Paddy by judicious | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | application of fungicide. | | | | |
| 6. | Improved packages of practice of sesame (Var. Rama) | | | | |
| 7. | Varietal replacement of Lentil thorough variety Subrata with seed treatment with Rhizobium | | | | |
| 8. | Introduction of Ground Nut Varieties TAG-24, TG-51 as an alternative crop in Summer | | | | |
| 9. | Identification of IDM technique to ponder Late Blight of Potato by seed treatment with *Trichoderma Viridie* | | | | |
| 10. | Impact of Growth regulators in Cucumber | | | | |
| 11. | Value addition over space and time in Bitter gourd | | | | |
| 12. | Introduction of Early Cauliflower with Micronutrient | | | | |
| 13. | Varietal replacement of elephant foot yam with Improved agro- | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | techniques (Var: Bidhan Kusum) | | | | |
| 14. | Better livelihood system through Integrated Farming System approach | | | | |
| 15. | Backyard RIR chicken rearing as a part of village livelihood | | | | |

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

| | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
|---|---|---|---|---|---|
| Phase | Total no. of villages | Total no. of farmers | Date of formation | Name of members | |
| I (up-to 15.03.2018) | 78 | 2750 | | | |
| II (up-to 24.04.218) | 32 | 1364 | | | |
| Total | | | | | |

19. Information on Visit of Ministers to KVKs, if any **NA**

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

20. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2017-18 and 2018-19 **NA**

| 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.) |
|---|---|---|---|---|---|---|---|
| 2016-17 | | | | | | | |
| | | | | | | | |
| 2017-18 | | | | | | | |
| | | | | | | | |
| 2018-19 | | | | | | | |
| | | | | | | | |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2018-19

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

21. Information on NARI Project(if applicable) **NA**

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

22. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable **NA**

***Krishi Kalyan Abhiyan- I and II***

**A. Training**

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

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

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

**C. Livestock and Fishery related activities**

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

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

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

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

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

***