ANNUAL REPORT

(April, 2014 to March, 2015)

NADIA KRISHI VIGYAN KENDRA

Bidhan Chandra Krishi Viswavidyalaya

Indian Council of Agricultural Research

Gayeshpur, Nadia, West Bengal

PIN – 741 234

☎: +91-33-2589 1271

🖷: +91-33-2589 1271

✉: nadiakvk@gmail.com

nadiakvk@yahoo.com

🖳: http://www.kvknadia.org

C O N T E N T

ANNUAL REPORT
(April 2014 to March 2015)

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	
Nadia Krishi Vigyan Kendra P.O. Gayeshpur, Dist. Nadia, West Bengal PIN - 741 234.	+91-33-25891271	+91-33-25891271	nadiakvk@yahoo.com nadiakvk@gmail.com Website:www.kvknadia.org

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

Address	Telephone		E mail
	Office	FAX	
Bidhan Chandra Krishi Viswavidyalaya P.O. Mohanpur, Dist. Nadia, West Bengal, PIN – 741 252	+91-33-25876048	+91-33-25870523 +91-33-25820465	deebckv@gmail.com Website: www.bckv.edu.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K.K. Goswami		09434241001	

1.4. Year of sanction of KVK: F.No.2-3/93-A.E.-I dated Feb. 05, 2004

1.5. Staff Position (as on 1st April, 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. Krishna Kishor Goswami	Programme Coordinator	Agril. Extension	37400-67,000(GP-9000/-) 55,440.00	23/11/2005	Permanent	Others
2	Subject Matter Specialist	Vacant	Subject Matter Specialist	Agronomy	-	-	-	-
3	Subject Matter Specialist	Dr. Malay Kumar Samanta	Subject Matter Specialist	Horticulture	15600-39100(GP-5400) 27,430.00	25/10/2005	Permanent	Others
4	Subject Matter Specialist	Dr. Shubhra Jyoti Pramanik	Subject Matter Specialist	Seed Science	15600-39100(GP-5400) 27,430.00	26/10/2005	Permanent	Others
5	Subject Matter Specialist	Mrs. Malabika Debnath	Subject Matter Specialist	Plant Protection	15600-39100(GP-5400) 27,430.00	26/10/2005	Permanent	Others
6	Subject Matter Specialist	Dr. Nirmal Kumar Tudu	Subject Matter Specialist	Animal Science	15600-39100(GP-5400) 33,288.00	31/08/2006	Permanent	ST
7	Subject Matter Specialist	Vacant	Subject Matter Specialist	Soil Science	-	-	-	-
8	Programme Assistant	Dr. Debalina Majhi	Programme Assistant	Horticulture	9,300-34,800 (GP-4200) 13,500.00	02.06.2014	Permanent	ST
9	Computer Programmer	Mr. Jharnendu Hembram	Computer Programmer	Computer Application	9,300-34,800 (GP-4200) 13,500.00	06.06.2014	Permanent	ST
10	Farm Manager	Vacant	Farm Manager	-	-	-	-	-
11	Accountant / Superintendent	Vacant	Accountant / Superintendent	-	-	-	-	-
12	Stenographer	Vacant	Stenographer	-		-	-	-
13	Driver	Mr. Kalyan Kumar Thakur	Driver	-	5200-20200(GP-2000) 10,440.00	24/10/2005	Permanent	Other
14	Supporting staff	Mr. Rishikesh Roy	Driver	-	5200-20200(GP-2000) 10,440.00	30/08/2006	Permanent	SC
15	Supporting staff	Mr. Prasanta Biswas	Supporting staff	-	5,200-20,200(GP-1800) 8,900.00	26/10/2005	Permanent	SC
16	Supporting staff	Mr. Biswajit Hansda	Supporting staff	-	5,200-20,200(GP-1800) 8,900.00	24/10/2005	Permanent	Others

1.6. Total land with KVK (in ha) :

Sl. No.	Item	Area (ha)
1	Under Buildings	0.085
2.	Under Demonstration Units	0.0477
3.	Under Crops	4.76
4.	Orchard/Agro-forestry	2.50
5.	Others with details	2.00
	Total	**9.3927**

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

Sl. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Yes	550	√	ICAR
2.	Farmers Hostel					Yes	300	√	ICAR
3.	Staff Quarters (6)					-	-	-	-
4.	Piggery unit					Yes	121.0	√	RKVY
5	Fencing					Yes	-	√	ICAR
6	Rain Water harvesting structure					-	-	-	-
7	Threshing floor					Yes	-	√	ICAR
8	Farm godown					Yes	-	√	ICAR
9.	Dairy unit					-	-	-	-
10.	Poultry unit					-	-	-	-
11.	Goatary unit					Yes		√	RKVY
12.	Mushroom Lab					Yes			NHM
13.	Mushroom production unit					-	-	-	-
14.	Shade house					Yes	-	√	NHM
15.	Soil test Lab					Yes	-	X	ICAR
16	Plant Diagnostic Unit					Yes	-	√	ICAR
17	Farm Cottage					Yes	-	√	RKVY
18	Piggery Unit					Yes	-	√	RKVY

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Jeep	Feb, 2005	4,71,856.00	1,47,950 km	Working
Tractor	March, 2005	4,29,440.00	545.7 hr	Working

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Lux meter	2008	4,500.00	Working	NHM
Thermometer (Min & Max)	2008	9,00.00	Working	NHM
Hair Hygrometer	2008	9,00.00	Working	NHM
Spectrophotometer	2011	30,588.00	Working	ICAR
Flame photometer	2011	25.027.00	Working	ICAR
p.h meter (3)	2011	10.896.00	Working	ICAR & ATMA
E.C.meter	2011	6.333.00	Working	ICAR
Digital balance	2011	36,000.00	Working	ICAR & ATMA
B.O.D (2)	2011	98,000.00	Working	ICAR
Hot air oven	2011	9,000.00	Working	ICAR
Dryer	2011	9,000.00	Working	ICAR
Desiccator	2011	12,000.00	Working	ICAR
Laminar air flow(2)	2011	80,000.00	Working	ICAR
Autoclave	2011	38,000.00	Working	ICAR
Mechanical shaker (2)	2011	43,240.00	Working	ICAR
Water distillation unit (2)	2011	23,800.00	Working	ICAR
Microscope (3)	2011	5,12,000.00	Working	ICAR
Tissue culture rack (3)	2012	60,000.00	Working	ICAR
Soil moisture meter	2012	8,000.00	Working	ICAR
Carrier culture mixture machine	2012	25,000.00	Working	ICAR
Microwave	2012	4,800.00	Working	ICAR
b. Farm machinery				
Tractor	2005	4,30,000.00	Working	ICAR
Grafting/budding knife	2008	720.00	Working	ICAR
Plastic pipe	2008	2,844.00	Working	ICAR
Henso	2008	1,200.00	Working	ICAR
Da	2008	412.00	Working	ICAR
Polythene	2008	6,550.00	Working	ICAR
Secature	2008	1,575.00	Working	ICAR
Rose Cane	2008	1,300.00	Working	ICAR
Van Rickshaw	2008	7,780.00	Working	ICAR
Shabol	2008	1,120.00	Working	ICAR
Khurpi	2008	975.00	Working	ICAR
Belcha	2008	544.00	Working	ICAR

Spade	2008	1,950.00	Working	ICAR
Harrow	2009	65,000.00	Working	ICAR
Sprayer(2)	2009	5,000.00	Working	ICAR
Heavy duty rotavator	2013	1,20,000.00	Working	ICAR
Paddy thresher	2013	3,900.00	Working	ICAR
Sprinkler	2010	45,000.00	working	RKVY
Lawn mower	2013	29,000.00	Working	ICAR
Brush cutter	2013	27,000.00	Working	ICAR
c. AV Aids				
Microphone	2008	29,900.00	Working	
Amplifier	2008	10,200.00	Working	
Microphone for podium	2008	3,050.00	Working	
Sound Box	2008	7,500.00	Working	
Collar microphone with cord	2008	1,700.00	Working	
Cordless collar microphone	2008	5,800.00	Working	
Mixture	2008	4,300.00	Working	

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Tractor	2005	4,30,000.00	Working	ICAR
Grafting/budding knife	2008	720.00	Working	ICAR
Plastic pipe	2008	2,844.00	Working	ICAR
Henso	2008	1,200.00	Working	ICAR
Da	2008	412.00	Working	ICAR
Polythene	2008	6,550.00	Working	ICAR
Secature	2008	1,575.00	Working	ICAR
Rose Cane	2008	1,300.00	Working	ICAR
Van Rickshaw	2008	7,780.00	Working	ICAR
Shabol	2008	1,120.00	Working	ICAR
Khurpi	2008	975.00	Working	ICAR
Belcha	2008	544.00	Working	ICAR
Spade	2008	1,950.00	Working	ICAR
Pump	2009	2,00,000.00	working	RKVY
Harrow	2009	65,000.00	Working	ICAR
Sprayer(2)	2009	5,000.00	Working	ICAR
Heavy duty rotavator	2013	1,20,000.00	Not Working	ICAR
Paddy thresher	2013	3,900.00	Working	ICAR
Sprinkler	2010	45,000.00	working	RKVY
Lawn mower	2013	29,000.00	Working	ICAR
Brush cutter	2013	27,000.00	Working	ICAR

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

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	20.06.2014	21	Seminar/workshop should be arranged involving Experts and Departmental personnel to aware the farmers about latest technologies.	Two seminars have already been arranged. Experts and farmers were involved in those seminars.	
			New flower trials in field eg. Orchids, Asiatic lily, Anthurium etc.	Materials have been procured. These have been grown at KVK campus and Village level for farmers' reaction.	
			Kharif onion at Nadia should be encouraged	Last year, large scale demonstration and training has been organized in collaboration with Horticulture department.	
			In Rice field, use Azospirilium	--	
			Data should be taken on Sulfur use in rice field.	Demonstration has already been undertaken at Farmers' field.	
			Farmers should be encouraged to rear Goat which is less cost intensive.	Black Bengal Goat is being advocated to the farmers. Pure breed of Black Bengal Goat is maintained at KVK farm for supply to Farmers.	
			Use ZnSo4 in alternate year in rice field. EDTA may be used. Foliar spray also done. For lowland area- use Azolla.	--	Scientists involve for this programme left KVK service.
			Timing and form of Use of Bhati pata to Goat may be standardized.	An OFT has already been conducted regarding this issue. The result needs further validation.	

			Awareness programme about disease incidence, prevention of goatery, poultry, dairy should be intensified.	Awareness programme has been taken in collaboration with ARD department and also through SMS portal.	
			Introduction of fish based cropping system.	--	
			Exposure visit of farmers should be conducted to get acquainted with good practices.	An exposure visit of progressive farmers along with District officials was conducted comprising 40 selected farmers of the district.	

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

2. District level data on agriculture, livestock and farming situation (2014-15)

Sl. no.	Item	Information
1	**Major Farming system/enterprise**	**Agriculture and Horticulture-based farming system:** Stagnation in farm income efficiency due to fast reducing profit potential, Deteriorating soil health in the face of no or extremely low rate of application of organic manure coupled with imbalanced application of chemical fertilizers. Inefficient crop husbandry restricting the scope of augmenting productivity under existing level of inputs management. Instability in yield due to increasing pest problem in the four most important vegetable enterprises. Inefficient nursery management for early vegetables in particular. Occasional glut during peak season due to extremely sluggish rate of value addition. **Fish based production system:** Mass mortality and poor growth performance leading to less profit due to lack of knowledge in maintaining appropriate stock ratios and skill in scientific pond management. Dereliction of productive area due to continuous neglect in the face of poor knowledge on fishery management in an enterprising mode. **Livestock based production system:** Poor management condition under courtyard and backyard situation leading to poor system out-turns. Poor overall system performance due to lack of awareness and motivation on timely health coverage.
2	**Agro-climatic Zone**	
	New Alluvial Zone	Soils here are moderately well drained, deep and medium textured with pH varies from 6.5 – 7.5 with a good base saturation. Annual rainfall in the situation varies from 1,401-1,671 mm; maximum and minimum temperature ranges between 25.2 –37.9°C and 9.8 – 26.7°C respectively. So far as the

		physiographic and irrigation facility is concerned, this district leaves scope to grow a wide variety of agricultural and horticultural crops.
3	**Agro ecological situation**	
	Medium and low land situation	The soils of New Alluvial Zone (NAZ) have got developed on recent alluvium of main river system of the Ganges. Soils of this flat alluvial plain vary from sandy loam to heavy clay in texture possessing high water retention capacity, good porosity and generally higher permeability for the surface soils. Depending upon their typical geomorphic situations, nature of alluvium and typical land use in cropping practices, this NAZ may further be sub-divided into four situations viz, i) Low-lying flood plain *(Tal)* including backwater swamps, ii) Recent Alluvial high flood plain *(Diara),* iii) Recent alluvial flood plain, and iv) Deltic alluvial plain. The climate of this largest agro-climatic zone in the state is sub-tropical in nature with an average annual rainfall of 1,467.5mm.The minimum and maximum temperature ranges from 9.0 – 26.8 ^{O}C and 20.4 – 39.0 ^{O}C respectively. Sunshine hours in NAZ generally vary between 8.5 –10.5 hrs. per day excepting during monsoon months when average sunshine hours come down to around 5.5 hrs. per day. Irrigation facility, one of the most critical factors for the growth of agriculture, is also in existence in an appreciable form at NAZ and covers an area of about 50 percent as against only 25.3 percent for the whole state. Endowed with congenial agro-ecological situation, the NAZ of West Bengal has established itself to be the core productive zone and granary of the state.
4	**Soil type**	
	Sandy loam (a) Up land (b) Medium land **Clay** (a) Low land	Soils here are moderately well drained, deep and medium textured with pH varies from 6.5 – 7.5 with a good base saturation.

5 **Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others:**

Sl. No.	Crop	Area (ha)	Production (q)	Productivity (Kg /ha)
Cereals				
1.	Aus paddy	50190	178099.40	3548.50
2.	Kharif paddy	106960	421522.60	3940.93
3.	*Boro* paddy	100050	543684.55	5434.12
4.	Wheat	49195	137259.70	2790.00
5.	Maize	1360.50	3906.4	2871.00
Oilseed				
1.	Mustard	64305	70330.06	1093.6
2.	Sesame (Summer)	21895	23733.20	1084.00
3.	Sesame (Winter)	40	17.62	440.00

4.	Ground nut (Rabi & Summer)	5458.50	8936.02	1646.00
5.	Linseed	1295	738.91	570.00
6.	Sunflower	1345	1235.67	918.71
Pulses				
1.	Gram	9265.00	8786.30	948.00
2.	Lentil	17845.00	13252.00	742.00
3.	Pea	1950.00	2070.70	1061.00
4.	Lathyrus	2285.00	1416.73	620.00
5.	Green gram (Summer)	1075.00	684.20	636.00
6.	Green gram (Rabi)	148.00	96.51	652.00
7.	Green gram (Kharif)	64.00	33.20	518.00
8.	Black gram (Kharif)	5815.00	4316.90	742.00
9.	Black gram (Rabi)	1848.00	1482.80	802.00
10.	Red gram	905.00	739.60	817.00
Others				
1.	Jute	83680	1126051.50 bale	13.45 bale / ha
2.	Potato	5580.00	144815.70	25950.0
3.	Sugarcane	3060.00	186963.00	61099.00
Vegetables				
1.	Tomato	4812.00	695200.00	14447.00
2.	Cabbage	6972.00	217300.00	31167.00
3.	Cauliflower	7130.00	214700.00	30112.00
4.	Brinjal	10917.00	523226.30	47927.7
5.	Onion	2439.00	261500.00	10722.00
6.	Lady finger	7049.00	750220.00	10643.0
Fruits				
1.	Mango	3612.00	282740.00	7828.00
2.	Banana	4069.00	721690.00	17736.00
3.	Papaya	817.00	231600.00	28348.00
4.	Guava	710.00	128800.00	18141.00
Flowers				
1.	Rose	330.00	38300.00	11606.0
2.	Tube rose	1184.00	194000.00	16385.00
3.	Merigold	1470.00	108740.00	7397.00
Spices				
1.	Chilli	3905.00	31260.00	800.00
2.	Turmeric	1580.00	31250.00	1978.00
3.	Garlic	152.00	13050.00	8585.00
4.	Coriander	4030.00	40420.00	1003.00

6 **Mean yearly temperature, rainfall, humidity of the district**

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April 14	0.00	39.38	24.89	85.73	37.90
May 14	2.60	37.63	26.69	87.52	57.03
June 14	10.98	35.38	27.01	93.20	75.53

	July 14	8.97	32.91	26.91	95.87	83.26
	August 14	9.08	34.23	26.52	94.71	77.23
	Sept.14	11.0	34.00	25.80	94.50	77.40
	October 14	2.64	33.61	23.15	87.61	68.45
	November 14	0	32.25	15.92	79.70	50.40
	December 14	0	26.73	12.04	86.23	57.65
	January 15	0.08	26.61	11.77	83.94	58.13
	February 15	0.49	31.65	15.58	82.93	47.18
	March 15	0.51	34.56	17.21	79.31	37.75

7 **Production of major livestock products like milk, egg, meat etc.**

Category	Population	Production	Productivity
Cattle			
Crossbred	**348760**	Milk-254.677 (thousand Ton)	
Indigenous	**522258**	Milk-173.28 (thousand Ton)	
Buffalo	**24075**	Meat-314 M.ton Milk-28.882 (thousand Ton)	
Sheep	**11718**	Meat-612 M.ton Wool-23.364 M.ton	
Goats	**968707**	Meat-9,952 M.ton Milk-8.047 (thousand Ton)	
Pigs	**12955**	Meat-2,483 M.ton	
Rabbits	**7028**		
Poultry			
Hen	2233853		
Desi	**1537548**		
Improved	**696305**		
Duck	**595072**		
Turkey and others	**53**		

2.6 (a) Details of operational area / villages (2014-15)

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	Kalyani	Chakdaha	Ghoragachha Banamalipara Srinagar Silinda Majhdiah Madanpur Mahaswarpur Rautari Babudanga Madandanga Taligachha Chapatala Pitulitala Shantinagar	Paddy, jute, mustard, winter & summer vegetables, pulse crop, fruits mainly guava, banana & citrus, goatery, poultry, cattle flower	*Bio physical* **Yield plateaning of major crops** *Improper crop husbandry *Non availability of quality seed and planting material *Soil health deterioration *High disease pest incidence **Low productivity of horticultural crops.** *nondescript variety *improper management practices **Low productivity of existing live stock.** * Indigenous breed. *Improper feed management. *High disease incidence of livestock. **Ill management of backyard** *lack of awareness. *Socio-economic* **Inadequacy of women led vocation.** **Inadequate hand on skill on crop husbandry**	1. Judicious application of inputs under existing production system. 2. Introduction of farmer-led branded seed production grid. 3. Improvement of pulse based cropping system 4. Judicious plant protection 5. Crop diversification 6. Value addition and post harvest management of crops 7. Performance improvement of livestock based backyard system. 8. Increased economic mainstreaming of women through capacity building and
		Haringhata	Mollabelia Nischintapur Kastodanga Bhabanipur Dhakhin Brahmapur			
2	Ranaghat	Ranaghat-I	Nandighat			
		Ranaghat-II	Dhantala, puritan chapra Panchberia			
3	Ranaghat	Shantipur	Choto Kulia Boro Kulia Laxminath pur Charpanpara Bagdebitala	Paddy, jute, mustard, winter & summer vegetables, pulse crop, fruits mainly mango, guava, banana, goatery, poultry, cattle		

				flower	**and backyard system management. Lack of market support. Lack of awareness on export oriented horticulture. Inadequate credit flow.**	capability up gradation.
4	Krishnanagar	Chapra	Charatala	Maize		
		Kaligang	Dingal	Bee keeping		
		Nakashipara	Dahakhali	High value crops		
5	Tehatta	Karimpur	Balia sisha Patta buka Shikarpur, harekrishnapur, gandharajpur	Paddy, wheat, pulses, jute, betel vine		

(b) Details of village adoption programme:

Name of the villages adopted by PC and SMS in 2014-15 for its development and action plan

Name of village	Block	Action taken for development
Fatehpur	Hanskhali	Organic production system
Dahakula	Nakashipara	On farm trail, front line demonstration and training
Bardhanpara	Chakdah	Fodder demonstration programme started
Champatala	Chakdah	Pest and disease management programme on various vegetables carried out.
Gopalpur	Hanskhali	Krishi mela, training, trail and demonstration.

(c) Sansad Adarsh Gram Yojona

i) Name of the village under Sansad Adarsha Gram Yojona:
ii) Contribution of KVK in the programme:

2.7 Priority thrust areas

Sl. No	Thrust area
1.	Judicious application of inputs under existing production system
2.	Introduction of farmer-led branded seed production grid.
3.	Improvement of pulse based cropping system.
4.	Judicious plant protection
5.	Crop diversification
6.	Value addition and post harvest management of crops
7.	Performance improvement of crop –fish-livestock based backyard system
8.	Increased economic mainstreaming of women through capacity building and capability up gradation.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievement of mandatory activities by KVK during 2014-15

OFT				FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement

Training				Extension activities			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement

Seed production (q)		Planting material (Nos.)	
Target	Achievement	Target	Achievement

3.1. Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Management of Thrips in chilli under irrigated upland situation of Nadia district, West Bengal					
2.	Problem diagnose	Chilli is one of the most popular vegetable in Nadia district and numbers of farmers are dependent on chilli cultivation. It is mainly planted in the month of May and it is badly harbored by thrips (*Scirtothrips dorsalis*). Huge infestation occurs in the initial stages due to prevalence favourable weather condition and even 90% plants may get damaged due to infestation of the pest. Due to heavy infestation plants become stunted, flower drops and yield reduce drastically.					
3.	Details of technologies selected for assessment/refinement	**Technology option 1** = seedling root dipping in Fipronyl solution for 3 hrs (0.1% a.i). two spray with Fipronyl (0.05% a.i) at 10 days interval. **Technology option 2** = seedling root dipping in carbosulfun solution for 3 hrs (0.1% a.i). two spraying with carbosulfun (0.05% a.i) at 10 days interval. **Farmers' practice:** Indiscriminate use of pesticide mainly, monocrotophos, imidachlorprid, avamechtin etc.					
4.	Source of Technology	B.C.K.V					
5.	Production system and thematic area	Vegetable based production system IPM					
6.	Performance of the Technology with performance indicators	**Technology option**	**Average no insect/ leaf after one month of transplanting**	**Average yield (q/ha)**	**Gross cost (Rs./ha)**	**Gross return (Rs./ha)**	**BC Ratio**
		Technology option 1 = seedling root dipping in Fipronyl solution for 3 hrs (0.1% a.i). two spray with Fipronyl (0.05% a.i) at 10 days interval.	2.34	67.83	109275.00	169575.00	1.55
		Technology option 2 = seedling root dipping in carbosulfun solution for 3 hrs (0.1% a.i). two spraying with carbosulfun (0.05% a.i) at 10 days interval.	2.32	70.46	110100.00	176150.00	1.59
		Farmer's practice (indiscriminate use of pesticide)	3.02	58.35	110200.00	145875.00	1.32
		SEm+	**0.167**	**1.144**	**-**	**-**	**-**

		CD(P=0.05)	**0.718**	**3.525**		**-**	**-**
7.	Final recommendation for micro level situation		From the result it is clear that the Technology option 1 & 2 that is seedling root dipping in Fipronyl or carbosulfun solution for 3 hrs and two spray with Fipronyl or carbosulfun at 10 days interval exhibited superiority in all the parameters than the farmer practice, and there was no significant difference among these two treatments.				
8.	Constraints identified and feedback for research						
9.	Process of farmers participation and their reaction		Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got higher yield in both the technology options. Farmers also mentioned that it is a very simple technology, easy to carry out and effective also.				

Thematic area: Integrated pest management
Problem definition: High infestation of Thrips in chilli.
Technology assessed: efficiency of seedling root dipping to control Thrips in chilli.
Table:

Technology option	No. of trials	Average no insect/ leaf after one month of transplanting	Average yield (q/ha)	Gross cost (Rs./ha)	Gross return (Rs./ha)	BC Ratio
Technology option 1 = seedling root dipping in Fipronyl solution for 3 hrs (0.1% a.i). two spray with Fipronyl (0.05% a.i) at 10 days interval.	7	2.34	67.83	109275.00	169575.00	1.55
Technology option 2 = seedling root dipping in carbosulfun solution for 3 hrs (0.1% a.i). two spraying with carbosulfun (0.05% a.i) at 10 days interval.		2.32	70.46	110100.00	176150.00	1.59
Farmer's practice (indiscriminate use of pesticide)		3.02	58.35	110200.00	145875.00	1.32

Results: From the result it is clear that the Technology option 1 & 2 exhibited higher yield and lower infestation of thrips than the farmer practice. Though in this year production of chilli is very low due to heavy rainfall and the grower faced huge loss, but Technology option 1 & 2 produced significantly higher yield than farmers practice.

OFT-2

1.	Title of On farm Trial	Assessment of efficiency of integrated approach in management of soft rot in early cauliflower in upland situation of Nadia district, West Bengal					
2.	Problem diagnose	The early cauliflower (harvested from end of September) is a very remunerative crop to the farmers, but the crop is badly damaged by soft rot during heavy rainy days					
3.	Details of technologies selected for assessment/refinement	**Technology option 1 =** seedling raising in raised bed in poly tunnel, 2 spray of streptocycline (@ 1g/10 L) after card initiation at 15 days interval **Technology option 2 =** seedling raising in raised bed in poly tunnel, 2 spray of combination of streptocycline (@ 1g/10 L) and copper oxy chloride (@30 g/10 L) after card initiation at 15 days interval. **Farmers' practice:** seedling raising in flat or raised bed in open and indiscriminate use of pesticide.					
4.	Source of Technology	B.C.K.V					
5.	Production system and thematic area	Vegetable based production system IPM					
6.	Performance of the Technology with performance indicators	**Technology option**	**Head damage percentage**	**Fresh yield (q/ha)**	**Gross cost (Rs./ha)**	**Gross return (Rs./ha)**	**BC Ratio**
		Technology option 1 = seedling raising in raised bed in poly tunnel, 2 spray of streptocycline (@ 1g/10 L) after card initiation at 15 days interval	10.38	131.15	122400.00	393450.00	3.21
		Technology option 2 = seedling raising in raised bed in poly tunnel, 2 spray of combination of streptocycline (@ 1g/10 L) and copper oxy chloride (@30 g/10 L) after card initiation at 15 days interval.	8.59	145.40	122850.00	436200.00	3.55

		Farmers' practice: seedling raising in flat or raised bed in open and indiscriminate use of pesticide.	13.39	116.23	121050.00	348690.00	2.88
		SEm+	**0.551**	**2.150**	**-**	**-**	**-**
		CD(P=0.05)	**1.699**	**6.625**		**-**	**-**
7.	Final recommendation for micro level situation		From the result it is clear that the Technology option 2 that is seedling raising in raised bed in poly tunnel, 2 spray of combination of streptocycline (@ 1g/10 L) and copper oxy chloride (@30 g/10 L) after card initiation at 15 days interval exhibited best result in all the parameters. Technology option 2 was significantly better than all other treatments. Technology option 1 i.e. seedling raising in raised bed in poly tunnel, 2 spray of streptocycline (@ 1g/10 L) after card initiation at 15 days interval also produced higher yield than the farmer practice.					
8.	Constraints identified and feedback for research		Spraying of streptocycline induces retardation in growth of the crop. So the crop takes slightly more time to mature. It also induces yellow coloration of the curd just after spray.					
9.	Process of farmers participation and their reaction		Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got higher yield in both the technology options.					

Thematic area: Integrated disease management
Problem definition: High infection of soft rot in early cauliflower.
Technology assessed: efficiency of integrated approach in management soft rot in early cauliflower
Table:

Technology option	No. of trials	Head damage percentage	Fresh yield (q/ha)	Gross cost (Rs./ha)	Gross return (Rs./ha)	BC Ratio
Technology option 1 = seedling raising in raised bed in poly tunnel, 2 spray of streptocycline (@ 1g/10 L) after card initiation at 15 days interval	7	10.38	131.15	122400.00	393450.00	3.21
Technology option 2 = seedling raising in raised bed in poly tunnel, 2 spray of combination of streptocycline (@ 1g/10 L) and copper oxy chloride (@30 g/10 L) after card initiation at 15 days interval.		8.59	145.40	122850.00	436200.00	3.55

Farmers' practice: seedling raising in flat or raised bed in open and indiscriminate use of pesticide.		13.39	116.23	121050.00	348690.00	2.88

Results: From the result it is clear that the Technology option 2 that is seedling raising in raised bed in poly tunnel, 2 spray of combination of streptocycline (@ 1g/10 L) and copper oxy chloride (@30 g/10 L) after card initiation at 15 days interval exhibited best result in all the parameters.

OFT-3

1.	Title of On farm Trial	Prevention of worm infestation in calf			
2.	Problem diagnosed	Poor growth performance due to worm infestation			
3.	Details of technologies selected for assessment/refinement	Technology option1 (FP): No deworming Technology option 1 = Extract of *Clerodendrum viscosum, vent* (Bhati pata) @ 5 ml. daily X 3 consecutive days at one month interval upto 6 months of age Technology option 2 = Extract of *Clerodendrum viscosum, vent* (Bhati pata) @ 10 ml. daily X 3 consecutive days at one month interval upto 6 months of age			
4.	Source of Technology	Department of Animal Science, B.C.K.V			
5.	Production system and thematic area	Livestock based farming situation and Dairy Management			
6.	Performance of the Technology with performance indicators	**Technology option**	**Body weight (kg) `at 6 month of age**	**Net return (Rs./unit)**	**BC Ratio**
		Technology option1 (FP): No deworming	107.71	4760.00	4.76
		Technology option 2 = Extract of *Clerodendrum viscosum, vent* (Herbal extract) @ 5 ml. daily X 3 days at one month interval	116.93	5740.00	5.55
		Technology option 3 = *Clerodendrum viscosum, vent* (Herbal extract) @ 10 ml. daily X 3 days	122.39	6740.00	6.34

		SEm±	0.6313		
		CD(P=0.05)	2.2857		
7.	Final recommendation for micro level situation	The experimental results revealed that among different treatments, Technology option 3 performed better than other treatments and Technology option 2 performed better than Technology option 1 and Technology option 1 performed better than Farmer practice and Farmers' practice had poorest performing treatment.			
8.	Constraints identified and feedback for research	In farmers are not aware about this technology and it should be needed in future research.			
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmers end as they got better performance in the technology option 3. Good response from the farmers.			

Thematic area: Dairy Management
Problem definition: Poor growth performance
Technology assessed: Efficiency of dewormer in calf performance
Table:

Technology option	No. of trials	Body weight (kg) at 6 month of age	Gross return (Rs./Unit)	Net return (Rs./Unit)	BC ratio
Farmer's practice: No deworming	7	107.71	6000.00	4760.00	4.76
Technology option 1 = *Clerodendrum viscosum, vent* (Herbal extract) @ 5 ml. daily X 3 days at one month interval		116.93	7000.00	5740.00	5.55
Technology option 2 = *Clerodendrum viscosum, vent* (Herbal extract) @ 10 ml. daily X 3 days at one month interval		122.39	8000.00	6740.00	6.34

Results: The experimental results revealed that among different treatments, Technology option 3 performed better than other treatments and Technology option 2 performed better than Technology option 1 and Technology option 1 performed better than Farmer practice and Farmers' practice had poorest performing treatment.

OFT-4

1.	Title of On farm Trial	Effect of antiseptic udder washing on udder health status in crossbred cows			
2.	Problem diagnosed	Low milk production due to poor udder health in crossbred cows			
3.	Details of technologies selected for assessment/refinement	**Technology option 1 (FP) =** Dairy management with traditional cow keeping including traditional milking practices **Technology option 2 =** Udder washing before and after each milking with neem leaf-boiled-water **Technology option 3 =** Udder washing before and after each milking with potassium permanganate solution in water (1:1000)			
4.	Source of Technology	NDRI, Eastern Regional Station, Kalyani, Nadia			
5.	Production system and thematic area	Livestock based farming situation and Dairy Management			
6.	Performance of the Technology with performance indicators	**Technology option**	**Milk yield (Litre/day)**	**Net return (Rs./unit)**	**BC Ratio**
		Technology option 1 (FP) = Dairy management with traditional cow keeping including traditional milking practices	6.00	7560.28	1.36
		Technology option 2 = Udder washing before and after each milking with neem leaf-boiled-water	7.28	8470.28	1.41
		Technology option 3 = Udder washing before and after each milking with potassium permanganate solution in water (1:1000)	8.46	9589.58	1.46
		SEm±	0.2189		
		CD(P=0.05)	0.7924		

7.	Final recommendation for micro level situation	The experimental results revealed that among different treatments, Technology option 3 performed better than other treatments and Technology option 2 performed better than Technology option 1 and Technology option 1 performed better than Farmer practice and Farmers' practice had poorest performing treatment.
8.	Constraints identified and feedback for research	In farmers are not aware about this technology and it should be needed in future research.
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmers end as they got better performance in the technology option 3. Good response from the farmers.

Thematic area: Dairy Management

Problem definition: Low milk production due to poor udder health in crossbred cows

Technology assessed: Efficiency of antiseptic udder washing on udder health status

Table:

Technology option	No. of trials	Milk yield (Litre/day)	Gross return (Rs./Unit)	Net return (Rs./Unit)	BC ratio
Technology option 1 (FP) = Dairy management with traditional cow keeping including traditional milking practices	7	6.00	28,210.00	7560.28	1.36
Technology option 2 = Udder washing before and after each milking with neem leaf-boiled-water		7.28	29,120.00	8470.28	1.41
Technology option 3 = Udder washing before and after each milking with potassium permanganate solution in water (1:1000)		8.46	30,239.30	9589.58	1.46

Results: The experimental results revealed that among different treatments, Technology option 3 performed better than other treatments and Technology option 2 performed better than Technology option 1 and Technology option 1 performed better than Farmer practice and Farmers' practice had poorest performing treatment.

OFT-5

1.	Title of On farm Trial	**Introduction of green capsicum in the traditional chilli growing area.**				
2.	Problem diagnose	Recent consumption practices create a considerable demand of green capsicum, which is mostly supplied from outside state. At the same time at our district rabi cultivation of chilli causes market glut and lower return. So chiilli cultivation substituted by green capsicum may give higher return.				
3.	Details of technologies selected for assessment/refinement	**Farmers Practice** = Cultivation of Chilli var. Broadcasted chilli (IR 8) **Technology option 1** = Green Capsicum var. **Asha** **Technology option 2** = Green Capsicum var. **Indra**				
4.	Source of Technology	NadiaKVK (NHM funded ad-hoc project)				
5.	Production system and thematic area	Vegetable based production system Vegetable Crop: Production of high value crop.				
6.	Performance of the Technology with performance indicators	**Technology option**	**Plant Height (cm)**	**Average yield (q/ha)**	**Net return (Rs./ha)**	**B:C ratio**
		Farmers Practice = Cultivation of Chilli var. Broadcasted chilli (IR 8)	62.16	149.79 (12.24)	1,49,580/-	2.00
		Technology option 1 = Green Capsicum var. **Asha**	48.84	155.25 (12.45)	3,18,375/-	2.42
		Technology option 2 = Green Capsicum var. **Indra**	59.47	129.43 (11.36)	1,98,005/-	1.78
		SEm±	**1.17**	**0.183**	**-**	**-**
		CD(P=0.05)	**4.24**	**0.66**	**-**	**-**
		Values in the parenthesis are the square root transform value				
7.	Final recommendation	From the result it is clear that the Technology option 1 i.e. variety Asha (Yield 149.79 Q/ha) perform better than				

	for micro level situation	the variety Indra (Yield 129.43 Q/ha). But the yield of Farmer Practice i.e. Cultivation of Chilli var. Broadcasted chilli (IR 8) is statistically at par with Technology option 1. As the average marketable price of Capsicum is higher (Rs. 30-40/kg) than the chilli (Rs 20/kg), the net return is more in case of green capsicum. Through the area under green capsicum is now increasing due to this trial, but present yield is still lower (130-160 Q/ha) than the expected yield i.e. 200-250 Q/ha. Selection of land and date of transplanting adjustment due to changing weather situation, might be helpful for reaching the targeted yield. So, considering the specific micro situation this OFT may be repeated for another year targeting to achieve recommended yield for green capsicum.
8.	Constraints identified and feedback for research	Major pest and disease problems for both chilli and capsicum.
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution.

Thematic area: Production of low volume and high value crops
Problem definition: Rabi cultivation of chilli causes market glut and lower return.
Technology assessed: Introduction of green capsicum.
Table:

Technology option	Plant Height (cm)	Average yield (q/ha)	Net return (Rs./ha)	B:C ratio
Farmers Practice = Cultivation of Chilli var. Broadcasted chilli (IR 8)	62.16	149.79 (12.24)	1,49,580/-	2.00
Technology option 1 = Green Capsicum var. **Asha**	48.84	155.25 (12.45)	3,18,375/-	2.42
Technology option 2 = Green Capsicum var. **Indra**	59.47	129.43 (11.36)	1,98,005/-	1.78
SEm+	**1.17**	**0.183**	-	-
CD(P=0.05)	**4.24**	**0.66**	-	-
Values in the parenthesis are the square root transform value				

Result: From the result it is clear that the Technology option 1 i.e. variety Asha (Yield 149.79 Q/ha) perform better than the variet y Indra (Yield 129.43 Q/ha). But the yield of Farmer Practice i.e. Cultivation of Chilli var. Broadcasted chilli (IR 8) is statistically at par with Technology option 1. As the average marketable price of Capsicum is higher (Rs. 30-40/kg) than the chilli (Rs 20/kg), the net return is more in case of green capsicum. Through the area under green capsicum is now increasing due to this trial, but present yield is still lower (130-160 Q/ha) than the expected yield i.e. 200-250 Q/ha. Selection of land and date of transplanting adjustment due to changing weather situation might be helpful for reaching the targeted yield. So, considering the specific micro situation, this OFT may be repeated for another year targetin g to achieve recommended yield for green capsicum.

OFT-6

1.	Title of on-farm trials	**Profitability enhancement of commercial banana enterprise under irrigated new alluvial zone farming system of Nadia district**					
2.	Problem diagnose	The dwarf Cavendish (Giant Governor) [Cavendish sub-group] having declining productivity and fruit quality especially due to fruit and leaf scarring beetle and thus leading the growers to get less remuneration from the crop.					
3.	Details of technologies selected for assessment/refinement	Improve cultivar with bunch cover. **Technology option 1** = Giant Governor + Non oven polypropylene cover **Technology option 2** = Giant Governor + mosquito net of 60m mesh **Technology option 3** = Giant Governor + Perforated polythene cover [specification: white polythene of 20 μ gauge].					
4.	Source of technology	BCKV and Nadia KVK					
5.	Production system and thematic area	Irrigated, medium to upland. Crop diversification.					
6.	Performance of the Technology with performance indicators	**Technology option**	**No. of trials**	**% of infested finger per Bunch**	**Average yield (q/ha)**	**Net Retur (Rs/ ha)**	**BC Ratio**
		Farmer's practice (No use of cover)	7	17.65	1205.9 (34.72)	2,88,000/-	2.28
		Technology option 1 = Giant Governor + Non oven polypropylene cover		0	1332.9 (36.50)	4,51,500/-	2.73
		Technology option 2 = Giant Governor +		0	1323.3 (36.38)	4,12,500/-	2.38

		Mosquito net cover					
		Technology option 3 = Giant Governor + Perforated polythene cover		0	1304.3 (36.11)	4,42,500/-	2.64
		SEm+	**-**	**0.79**	**0.25**	**-**	**-**
		CD(P=0.05)	**-**	**2.74**	**0.86**	**-**	**-**
7.	Final recommendation for micro level situation	From the result it is clear that all the Technology options not only exhibits significant higher yield than the farmer practice but also its gives higher return due to higher market price per bunch (Average market price for farmer practice Rs 150/ bunch. Whereas in case of any cover the range varies from Rs 250-300/ bunch). The % of infestation due to scarring beetle were absent for all cover used. So, from this OFT it is clear that use of bunch cover in giant governor cultivation not only enhance the marketable yield but also as quality , thus the bunches get premium price. As this OFT successfully accepted by the partner farmer, even few farmer of the adjoining area started to use bunch cover by their own cost, the best performing option may be recommended for FLD. Apart from the major parameter under consideration, commercial availability, ease of handling and all season suitability impacted on preferential choice of farmer about the covering material. Finally it may be recommended that non woven polypropelene bunch cover (120 cm length and 100 cm breath) for Grand Naine variety of banana may be considered for FLD and subsequent extension programme through GOVT. agencies.					
8.	Constraints identified and feedback for research	Size of the bag for different variety, effect of color material on quality and cost, durability and degradability of the covering materials need to be assess under farm situation.					
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end.					

Thematic area: Yield increment
Problem definition: Lower market demand of Giant Governor due to massive infestation of fruit and Leaf scarring Beetle.
Technology assessed: Improve cultivar with bunch cover.
Table:

Technology option	No. of trials	% of infested finger per Bunch	Average yield (q/ha)	Net Retur (Rs/ ha)	BC Ratio
Farmer's practice (No use of cover)	7	17.65	1205.9	2,88,000/-	2.28

			(34.72)		
Technology option 1 = Giant Governor + Non oven polypropylene cover		0	1332.9 (36.50)	4,51,500/-	2.73
Technology option 2 = Giant Governor + Mosquito net cover		0	1323.3 (36.38)	4,12,500/-	2.38
Technology option 3 = Giant Governor + Perforated polythene cover		0	1304.3 (36.11)	4,42,500/-	2.64
SEm+	**-**	**0.79**	**0.25**	**-**	**-**
CD(P=0.05)	**-**	**2.74**	**0.86**	**-**	**-**

Results: From the result it is clear that all the Technology options not only exhibits significant higher yield than the farmer practice but also its gives higher return due to higher market price per bunch (Average market price for farmer practice Rs 150/ bunch. Whereas in case of any cover the range varies from Rs 250-300/ bunch). The % of infestation due to scarring beetle were absent for all cover used. So, from this OFT it is clear that use of bunch cover in giant governor cultivation not only enhance the marketable yield but also as quality , thus the bunches get premium price. As this OFT successfully accepted by the partner farmer, even few farmer of the adjoining area started to use bunch cover by their own cost, the best performing option may be recommended for FLD. Apart from the major parameter under consideration, commercial availability, ease of handling and all season suitability impacted on preferential choice of farmer about the covering material. Finally it may be recommended that non woven polypropelene bunch cover (120 cm length and 100 cm breath) for Grand Naine variety of banana may be considered for FLD and subsequent extension programme through GOVT. agencies.

OFT-7

1.	Title of On farm Trial	Performance evaluation of improved high yielding varieties of wheat in *rabi* season under irrigated farming situation of high humid New Alluvial Zone, Nadia.
2.	Problem diagnose	Low production potentiality of existing cultivars like UP-262.
3.	Details of technologies selected for assessment/refinement	Farmers' practice: UP-262 Technology option 1 = PBW-363 Technology option 2 = Gayetri
4.	Source of Technology	AICRP on wheat, BCKV.
5.	Production system and thematic area	Jute-Paddy-**Wheat** Varietal Evaluation

6.	Performance of the Technology with performance indicators	**Treatment**	**Days to 50%Flowering**	**PlantHt (cm)**	**Tillers /hill**	**Ear length(cm)**	**Filled grains/ panicle**	**1000 grain wt (g)**	**Yield (q/ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**B:C ratio**
		Farmers' Practice (UP-262)	75.14	83.64	4.90	8.92	188.8	40.1	26.08	27,696	5,196	1.23
		Technology option 1 (PBW-363)	66.29	96.35	9.72	10.52	303.9	45.5	30.55	36,660	14,160	1.63
		Technology option 2 (Gayetri)	61.57	73.35	6.12	9.75	269.6	41.1	28.13	33,756	11,256	1.50
		CD(P=0.05)	3.015	3.771	0.791	0.860	14.115	0.996	1.129	-	-	-
		S.Em	0.968	1.210	0.254	0.276	4.531	0.320	0.362	-	-	-
7.	Final recommendation for micro level situation	Although variety PBW-363 performed better than the other varieties but its required another season for final recommendation										
8.	Constraints identified and feedback for research	-										
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to high yield and better colour and texture of the product.										

Thematic area: Varietal evaluation
Problem definition: Low production potentiality of existing cultivars like UP-262. low water requirement as compared to *boro* paddy
Technology assessed: Production potentiality of the varieties
Table:

Treatment	Days to 50%Flowering	PlantHt (cm)	Tillers/hill	Ear length(cm)	Filled grains/ panicle	1000 grain wt (g)	Yield (q/ha)	Gross return (Rs/ha)	Net return (Rs./ha)	B:C ratio
Farmers' Practice (UP-262)	75.14	83.64	4.90	8.92	188.8	40.1	26.08	27,696	5,196	1.23
Technology option 1 (PBW-363)	66.29	96.35	9.72	10.52	303.9	45.5	30.55	36,660	14,160	1.63
Technology option 2 (Gayetri)	61.57	73.35	6.12	9.75	269.6	41.1	28.13	33,756	11,256	1.50
C.D. (P=0.05)	3.015	3.771	0.791	0.860	14.115	0.996	1.129	-	-	-
S.Em	0.968	1.210	0.254	0.276	4.531	0.320	0.362	-	-	-

Results: From the result it is clear that the Technology option 1 that is variety PBW-363 exhibited higher yield than the farmer practice. It also fetch higher price in the market due to better colour and texture.

3.2. Achievements of Frontline Demonstrations

A. Details of FLDs conducted during 2014-15

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
				Proposed	Actual	SC/ST	Others	Total	
1.	Mango	Fruit fly management	Methyl euzinal trap	10.0	10.0	5	5	10	N.A
2.	Pointed gourd	Nematode management	Vine treatment (method demonstration)	5.0	5.0	8	12	20	N.A
3.	Mustard	Disease management	Seed treatment of mustard	5.0	5.33	21	19	40	N.A

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					
Mango	Pri kharif, 14	Irrigated	Sandy loam	0.57	14.23	113.25	mango	Established orchard	May-july	-	-
Pointed gourd	Late Kharif,14	Irrigated	Loamy	1.23	17.53	142.53	vegetable	4th week of Sept	One year crop	-	-
Mustard	Rabi,14	Irrigated	Sandy loam	1.49	25.87	127.32	Early cabbage	1st week of November	3rd week of Februar y		
Garden Pea	Rabi,14	Irrigated	Sandy loam	1.68	16.5	125.3	Vegetable	1st week Oct. onward	Mid. of Nov. onward	-	-

Coriander	Rabi,14	Irrigated	Sandy loam	2.07	15.9	126.7	Rice	1st week Oct. onward	End of Dec. onward	-	-
Cauliflower	Summar, 14	Irrigated	Sandy loam	1.03	17.54	122.13	Vegetable	2 nd week of May	1st week of October	-	-
Cabbage	Early Rain,14	Irrigated	Sandy loam	1.05	16.23	126.29	Vegetable	2nd week of June	2nd week of Decembe	-	-
Jute	*Pre-Kharif*	Irrigated	Sandy loam	0.056	42.0	96.3	Vegetables	4th week of March	2nd week of August	-	-
Blackgram	*Kharif*	Irrigated	Sandy loam	0.042	42.4	132.5	Jute	4th week of August	2nd week of November	-	-
Greengram	*Pre-Kharif*	Irrigated	Sandy loam	-	-	-	Mustard	4th week of February	2nd week of May	-	-
Kharif Paddy (2014)	*Kharif*	Irrigated	Sandy loam	-	-	-	Jute	2nd week of August	2nd week of December	-	-
Kharif Paddy (2014)	*Kharif*	Irrigated	Sandy loam	-	-	-	Jute	2nd week of August	2nd week of December	-	-
Boro Paddy (2013-14)	*Rabi*	Irrigated	Sandy loam	-	-	-	Mustard	3rd week of January	4th week of April	-	-

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 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
Mustard	Disease management	Seed treatment	40	5.33	14.79	13.98	5.79	15310	51765	36455	3.38	15100	48930	33830	3.24
Total			40												

* 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
Blackgram	Seed Production	Variety (PU-30), Rhizobium inoculation	10	1.33	11.25	10.10	11.39	27,500	38,200	10,700	1.39	27,500	34,300	6800	1.25
Greengram	Seed Production	Variety (Samrat), Rhizobium inoculation	61	8.1	13.56	12.64	7.2	28,300	45,800	17,500	1.61	28,300	42,700	14,400	1.51
		Total	**71**	**9.43**	-	-	-	-	-	-	-	-	-	-	-

* 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
Mango	Fruit fly management	Methyl euzinal trap	10	10.0	297.8	251.3	18.5	farmer	farmer	5.86 lacs	5.96 lacs	5.37 lacs	10.16	5.53 lacs	5.03 lacs	4.47 lacs	9.09
Pointed gourd	Nematode management	Vine treatment (method demonstration)	40	5.0	92.7% sprouting of vine	74.5% sprouting of vine	24.43	do	do	1.59 lacs	4.23 lacs	2.64 lacs	2.66	1.54 lacs	4.06 lacs	2.52 lacs	2.63
Garden Pea	Crop diversification	Variety, *Rhizobium* inoculation	30	2.0	78.9	62.1	27.05	-	-	5.57 lacs	1.39 lacs	8.35 lacs	2.5	4.70 lacs	1.02 lacs	5.50 lacs	2.17
Coriander	Crop diversification	Introduction of new leaf purpose variety	15	1.0	63.3	45.7	38.51	-	-	4.47 lacs	1.78 lacs	1.33 lacs	3.98	4.05 lacs	8.20 lacs	4.15 lacs	2.03
Cauliflower	Crop diversification	Off season cultivar var. Don (F1 hybrid)	6	0.5	-	103.00	-	-	-	2.43 lacs	4.61 lacs	2.18 lacs	1.90	-	-	-	
Cabbage	Crop diversification	Off season cultivar var. NS 43 (F1 hybrid)	7	0.5	-	267.00	-	-	-	2.09 lacs	4.93 lacs	2.84 lacs	2.36	-	-	-	-
Jute	New Variety	Variety	60	8.0	39.6	36.1	3.5	-	-	6.38 lacs	8.71 lacs	2.34 lacs	1.37	6.38 lacs	7.94 lacs	1.57 lacs	1.25
Kharif Paddy (2014)	Seed Production	Seed Treatment,Rouging,Proper time of harvesting,drying and storage	40	5.33	42.1	39.8	5.8	-	-	5.60 lacs	7.15 lacs	1.55 lacs	1.28	5.75 lacs	6.76 lacs	1.01 lacs	1.18
Kharif Paddy (2014)	Seed Treatment	Seed sorting and Seed treatment	75	10.0	42.1	39.8	5.8	-	-	5.60 lacs	7.15 lacs	1.55 lacs	1.28	5.75 lacs	6.76 lacs	1.01 lacs	1.18
Boro Paddy (2013-14)	Seed Production	Seed Treatment,Rouging,Proper time of harvesting,drying and storage	61	8.1	78.0	65.2	19.6	-	-	84500	149000	64500	1.76	87200	124500	37300	1.43
		Total	344	50.43													

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	Poultry Management	Vanaraja Bird	30	30	750 g b.wt	500 g b. wt	66%	60 g. egg wt	50 g. egg wt	75	275.00	200.00	3.66	70	250	180	3.57
Rabbitry																	
Piggery	Piggery Management	Ghoongroo Pig	30	30	10 offspring	8 offspring	80%	-	-	3000.00	6000.00	3000.00	2.1	2500.00	4500.00	2000.00	1.8
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total			60	60													

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	

Ornamental fishes																	
Others (pl. specify)																	
	Total																

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

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

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

Women empowerment

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

Farm implements and machinery

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

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

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										

Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Vanaraja Bird	Egg laying 100-150 per annum and body weight at six weeks - 650-750 g
2.	Fodder (Barseem, Maize, Rice bean, Oats, Cowpea, N.B. Hybrid, Sorghum	Newly introduced crops widely accepted by the farmers
3.	Ghoongroo pig	Production performance is very good but due to its high multiplicity housing is becoming problem
4.	Fruit fly management of mango by methyl euzinol trap	Very low cost and effective technology, this technology is very simple and ingredients are readily available
5.	Nematode management in pointed gourd through vine treatment	Low cost, effective technology. Highly accepted by the farmers.
6.	Seed treatment of mustard	Low cost and effective technology, highly accepted by the farmers
7.	Coriander leaf production	Low cost and effective technology, highly accepted by the farmers
8.	Off season cultivation of cole crops	Highly accepted by the farmer, color of curd of demonstrated variety of cauliflower is not satisfactory, replacement needed with other variety with preferred curd color (creamy white).
9	Garden pea	Pod size, color, sweetness are highly accepted.
10	Jute	Variety Subala (S-19) has been accepted by the farmers
11	Blackgram	Variety PU-30 has been found resistant to disease and pest
12	Greengram	Variety Samrat is having synchronous maturity
13	Boro Paddy (2013-14)	Variety Satabdi (IET-4786) has been accepted by the farmers mainly in *boro* season

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

3.3 Achievements on Training (Including the sponsored and FLD training programmes):
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													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production	2	51	0	51	12	0	12	33	0	33	96	0	96
Nursery management													
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	5	57	1	58	62	2	64	0	0	0	119	3	122
Production of low volume and high value crops	2	26	0	26	29	0	29	1	0	1	56	0	56
Off-season vegetables													
Nursery raising	4	92	0	92	79	0	79	3	0	3	174	0	174
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													

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													
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 technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management	3	47	0	47	51	0	51	8	0	8	106	0	106
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	1	7	0	7	9	0	9	11	2	13	27	2	29
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Coconut based integrated farming	7	72	19	91	69	49	118	12	0	12	153	68	221
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													

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
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
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	8	96	6	102	84	10	94	0	0	0	180	16	196
Integrated Disease Management	1	6	0	6	11	0	11	0	0	0	17	0	17
Bio-control of pests and diseases	1	7	0	7	13	0	13	0	0	0	20	0	20
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													

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
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	34	461	26	487	419	61	480	68	2	70	948	89	1037

Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming	2	20	0	20	31	0	31	7	0	7	58	0	58
Seed production	6	68	7	75	47	27	74	19	0	19	117	51	168
Production of organic inputs													
Integrated Farming	2	31	0	31	27	0	27	0	0	0	58	0	58
Planting material production													
Vermi-culture	1	14	0	14	7	0	7	2	0	2	23	0	23
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	5	43	9	52	57	13	70	0	5	5	100	27	127
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	16	0	16	13	0	13	0	0	0	29	0	29
Training and pruning of orchards													
Value addition	8	119	7	126	102	23	125	1	0	1	222	30	252
Production of quality animal products													
Dairying													
Sheep and goat rearing	1	8	0	8	7	3	10	5	7	12	20	10	30
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													

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
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	26	319	23	342	291	66	357	34	12	46	627	118	745

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													
Value addition													
Productivity enhancement in field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													

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
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL													

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													
Resource Conservation Technologies	1	7	0	7	25	0	25	0	0	0	32	0	32
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production	6	62	3	65	53	2	55	3	6	9	118	11	129
Nursery management	1	10	0	10	3	0	3	0	0	0	13	0	13
Integrated Crop Management	1	0	0	0	6	0	6	3	6	9	9	6	15
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 Orchards													
Cultivation of Fruit													
Management of young plants/orchards													

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
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 technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management	4	23	1	24	39	0	39	3	9	12	65	10	75
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													

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
Poultry Management	3	12	3	15	26	4	30	31	8	39	69	15	84
Piggery Management	3	14	42	56	19	6	25	5	0	5	38	48	86
Rabbit Management													
Disease Management													
Feed management	4	30	9	39	23	5	28	0	0	0	53	14	67
Production of quality animal products													
Goat farming	1	11	2	13	7	0	7	3	0	3	21	2	23
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
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	12	109	0	109	159	3	162	0	0	0	268	3	271
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													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													

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
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	36	278	60	338	360	20	380	48	29	77	686	109	795

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	4	23	3	26	28	6	34	8	3	11	59	12	71
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	9	0	9	7	0	7	0	0	0	16	0	16
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing	4	17	13	30	31	4	35	36	12	48	84	29	113
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													

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
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	9	49	16	65	66	10	76	44	15	59	159	41	200

Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													

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
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL													

Consolidated table (ON and OFF Campus)
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													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
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 Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													

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(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 technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
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													

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
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL													

RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													

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 of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
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													

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
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
TOTAL													

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													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													

Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL													

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

Date	PF/ RY	Type (On/ Off/ Skill)	Title of Training	No. of Participants									Grand Total		
				Others			SC			ST					
				M	F	T	M	F	T	M	F	T	M	F	T
Agronomy															
27.06.2014	PF	Off	Paddy cultivation through drum seeder	7	0	7	25	0	25	0	0	0	32	0	32
03.07.2014	PF	Off	Nursery management in kharif rice	10	0	10	3	0	3	0	0	0	13	0	13
15.07.2014	RY	Off	Fodder production technology	5	1	6	9	0	9	0	0	0	14	1	15
30.07.2014	RY	Off	Production technology of kharifh maize as fooder crop	5	1	6	9	0	9	0	0	0	14	1	15
12.08.2014	PF	Off	Nutrient manegement in kharifh rice	0	0	0	6	0	6	3	6	9	9	6	15
21.08.2014	RY	Off	Production technology of hybrid napier	5	1	6	7	5	12	4	3	7	16	9	25
22.08.2014	RY	Off	Production technology of hybrid napier	8	0	8	3	1	4	4	0	4	15	1	16
27.08.2014	RY	On	Organic manure & vermicomposting	14	0	14	7	0	7	2	0	2	23	0	23
Plant Protection															
07.04.2014	PF	Off	Nematode Management technique for tuberose	3	0	3	12	0	12	0	0	0	15	0	15
28.04.2014	PF	On	Methyl Euzinol trap preparation for fruit fly mamgement in mango	7	0	7	13	0	13	0	0	0	20	0	20
05.06.2014	RY	On	Skill development training on disease free sapling production procedure	6	0	6	11	0	11	0	0	0	17	0	17
15.05.2014	PF	Off	Disease and pest management in protected cultivation	10	0	10	16	0	16	0	0	0	26	0	26
11.06.2014	RY	Off	Rainy season disease pest management of flower nursery	9	0	9	7	0	7	0	0	0	16	0	16
17.06.2014	PF	Off	Pre sowing manangement practices for disease pest management in rainy season vegetables	11	0	11	16	0	16	0	0	0	27	0	27
25-26.07.2014	PF	On	Disease and pest management in protected cultivation	12	0	12	15	0	15	0	0	0	27	0	27

09.07.2014	PF	Off	Disease pest management in rainy season vegetables	9	0	9	9	0	9	0	0	0	18	0	18
07-08.07.2014	PF	On	Disease pest management of betelvine	12	0	12	7	0	7	0	0	0	19	0	19
14.07.2014	PF	Off	Disease pest management of nursery of early cabbage and culiflower	9	0	9	12	0	12	0	0	0	21	0	21
13.08.2014	PF	Off	Disease pest management of banana	9	0	9	9	0	9	0	0	0	18	0	18
19.08.2014	PF	On	Disease pest management vegetable nursery in rainy season	10	0	10	9	0	9	0	0	0	19	0	19
28.08.2014	PF	Off	Disease pest management of nursery of early cabbage and culiflower	9	0	9	11	3	14	0	0	0	20	3	23
02.09.2014	PF	On	Disease pest management of betelvine	15	0	15	12	0	12	0	0	0	27	0	27
10.09.2014	RY	On	Disease pest management of coconut	10	0	10	15	0	15	0	0	0	25	0	25
16.10.2014	PF	Off	Disease pest management in nursery for winter vegetables	6	0	6	9	0	9	0	0	0	15	0	15
21.10.2014	PF	Off	Disease pest management in nursery for winter vegetables	17	0	17	18	0	18	0	0	0	35	0	35
28.10.2014	PF	Off	Disease pest management of mustard	5	0	5	11	0	11	0	0	0	16	0	16
29.10.2014	PF	Off	Disease pest management of mustard	9	0	9	11	0	11	0	0	0	20	0	20
12.11.2014		On	Disease pest management of coconut	10	0	10	13	0	13	0	0	0	23	0	23
26.11.2014	PF	On	Disease pest management of vegetable crops	19	6	25	10	10	20	0	0	0	29	16	45
01.12.2014	PF	Off	Disease pest management of vegetable crops	12	0	12	25	0	25	0	0	0	37	0	37
08.12.2014	RY	On	Disease pest management of coconut	10	0	10	15	0	15	0	0	0	25	0	25
15.12.2014	RY	On	Disease pest management of coconut	0	9	9	0	13	13	0	5	5	0	27	27
14.01.2015	PF	On	Disease pest management of vegetable	11	0	11	9	0	9	0	0	0	20	0	20
28.01.2015	PF	On	Disease pest management of mango	11	0	11	14	0	14	0	0	0	25	0	25
09.02.2015	PF	On	Disease pest management of banana	6	0	6	8	0	8	0	0	0	14	0	14
17.02.2015	RY	On	Disease pest management of coconut	13	0	13	14	0	14	0	0	0	27	0	27
Seed Science															
06.04.2014	PF	Off	Seed treatment of jute	13	3	16	5	2	7	0	0	0	18	5	23
22.04.2014	PF	Off	Seed treatment of jute	18	0	18	2	0	2	0	0	0	20	0	20
06.05.2014	PF	Off	Seed production of jute	12	0	12	6	0	6	0	0	0	18	0	18

21.05.2014	PF	Off	Seed production of jute	12	0	12	9	0	9	0	0	0	21	0	21
25.06.2014	PF	On	Seed production of high value crops	14	0	14	12	0	12	0	0	0	26	0	26
27.06.2014	PF	Off	Paddy seed production	7	0	7	25	0	25	0	0	0	32	0	32
12.08.2014	PF	Off	Seed production of paddy	0	0	0	6	0	6	3	6	9	9	6	15
25.08.2014	RY	On	Seedling raising of coconut	14	0	14	7	0	7	2	0	2	23	0	23
08.09.2014	RY	On	Seedling raising of coconut	25	0	25	10	0	10	0	0	0	35	0	35
28.10.2014	PF	Off	Seed production of mustard	9	0	9	7	0	7	0	0	0	16	0	16
16.11.2014	RY	On	Nursery raising of coconut	0	7	7	0	23	23	0	0	0	0	30	30
26.11.2014	RY	On	Nursery raising of coconut	0	0	0	17	4	21	0	0	0	17	4	21
21.01.2015	PF	Off	Seed production of paddy	18	0	18	12	0	12	0	0	0	30	0	30
17.02.2015	RY	On	Nursery raising of coconut	16	0	16	13	0	13	0	0	0	29	0	29
27.02.2015	RY	Off	Vermicomposting	37	0	37	0	0	0	0	0	0	37	0	37
23.03.2015	RY	On	Nursery raising of coconut	13	0	13	0	0	0	17	0	17	30	0	30
26.03.2015	PF	On	Seed production of vegetables	37	0	37	0	0	0	33	0	33	70	0	70
Horticulture															
20.05.2014	PF	On	High value crop production	13	0	13	14	0	14	0	0	0	27	0	27
23.06.2014	RY	On	Principle of protected cultivation	16	0	16	13	0	13	0	0	0	29	0	29
24.06.2014	RY	On	Cultivation of high value crop under protected structure	15	0	15	14	0	14	0	0	0	29	0	29
15.07.2014	PF	Off	Production of cole crops	19	1	20	1	1	2	0	0	0	20	2	22
22.07.2014	PF	Off	Production technology of banana	2	0	2	16	0	16	0	0	0	18	0	18
12.08.2014	PF	Off	Seedling production technology	7	0	7	17	1	18	0	0	0	24	1	25
25.08.2014	RY	On	Production technology of coconut	17	0	17	11	0	11	0	0	0	28	0	28
05.09.2014	RY	On	Production technology of coconut	20	0	20	17	0	17	0	0	0	37	0	37
11.09.2014	RY	On	Bunch Management of coconut	20	0	20	17	0	17	0	0	0	37	0	37
15.10.2014	PF	Off	Early cole crops	16	0	16	12	0	12	0	0	0	28	0	28
27.10.2014	PF	Off	Seedling management	13	0	13	16	0	16	0	0	0	29	0	29
10.11.2014	RY	On	Production technology of coconut	12	0	12	16	0	16	1	0	1	29	0	29
13.11.2014	PF	On	Production technology of banana	13	0	13	15	0	15	1	0	1	29	0	29
26.11.2014	PF	On	Recent trends of horticulture crop production	16	7	23	17	4	21	2	0	2	35	11	46
16.12.2014	RY	On	Production technology of coconut	0	7	7	0	23	23	0	0	0	0	30	30
18.12.2014	RY	On	Value addition of coconut	0	7	7	0	23	23	0	0	0	0	30	30
05.01.2015	RY	On	Production technology of coconut	15	0	15	17	0	17	0	0	0	32	0	32

17.02.2015	RY	On	Production technology of coconut	16	0	16	13	0	13	0	0	0	29	0	29
19.02.2015	RY	On	Floral biology of coconut	16	0	16	13	0	13	0	0	0	29	0	29
18.03.2015	PF	On	Nursery Management for vegetable	25	0	25	19	0	19	3	0	3	47	0	47
23.03.2015	PF	On	Vegetable production technology	11	0	11	31	0	31	0	0	0	42	0	42
24.03.2015	RY	On	Coconut production technology	19	0	19	11	0	11	0	0	0	30	0	30
25.03.2015	PF	On	Nursery Management for vegetable	29	0	29	12	0	12	0	0	0	41	0	41
26.03.2015	PF	On	Nursery Management for vegetable	27	0	27	17	0	17	0	0	0	44	0	44
Soil Science															
25.06.2014	PF	On	Fertigation for better nutrient management	14	0	14	12	0	12	0	0	0	26	0	26
27.06.2014	PF	Off	Soil testing: important methods	7	0	7	25	0	25	0	0	0	32	0	32
03.07.2014	PF	Off	Soil testing & fertilizer recomendation	10	0	10	3	0	3	0	0	0	13	0	13
30.07.2014	PF	Off	Soil testing & fertilizer recomendation	5	1	6	9	0	9	0	0	0	14	1	15
12.08.2014	PF	Off	Use of micronutrients (Zn) in rice based croping system	1	0	1	2	0	2	3	9	12	6	9	15
27.08.2015	RY	On	INM in coconut	5	0	5	16	0	16	2	0	2	23	0	23
09.09.2014	RY	On	INM in coconut	15	0	15	15	0	15	5	0	5	35	0	35
18.09.2014	PF	On	Use of micronutrients in modern agriculture	18	0	18	19	0	19	3	0	3	40	0	40
19.09.2014	PF	On	Use of micronutrients in modern agriculture	15	0	15	20	0	20	5	0	5	40	0	40
Animal Science															
16.04.2014	RY	Off	Goatery Management	5	7	12	9	2	11	3	0	3	17	9	26
23.04.2014	PF	Off	Poultry Management	5	0	5	5	0	5	9	3	12	19	3	22
13.05.2014	PF	Off	Pig Management	12	5	17	9	3	12	0	0	0	21	8	29
22.05.2014	RY	Off	Goatery Management	0	0	0	0	0	0	13	7	20	13	7	20
10.06.2014	PF	Off	Pig Management	2	0	2	10	3	13	5	0	5	17	3	20
25.06.2014	PF	Off	Poultry Management	0	0	0	17	2	19	5	0	5	22	2	24
15.07.2014	RY	Off	Fodder Production technology	5	1	6	9	0	9	0	0	0	14	1	15
30.07.2014	PF	Off	Fodder Production technology	5	1	6	9	0	9	0	0	0	14	1	15
21.08.2014	PF	Off	Fodder Production technology	11	7	18	3	4	7	0	0	0	14	11	25
22.08.2014	PF	Off	Fodder Production technology	9	0	9	2	1	3	0	0	0	11	1	12
27.08.2014	PF	On	Coconut Based Mixed Farming System	10	5	15	7	3	10	0	0	0	17	8	25
09.09.2014	PF	On	Coconut Based Mixed Farming System	15	0	15	15	0	15	7	0	7	37	0	37
18.09.2014	PF	On	Coconut Based Mixed Farming System	15	0	15	20	0	20	5	0	5	40	0	40
14.10.2014	RY	Off	Goatery Management	3	3	6	11	2	13	13	3	16	27	8	35
17.10.2014	PF	Off	Poultry Management	7	3	10	4	2	6	17	5	22	28	10	38
19.11.2014	PF	Off	Goatery Management	11	2	13	7	0	7	3	0	3	21	2	23
26.11.2014	RY	Off	Goatery Management	9	3	12	11	0	11	7	2	9	27	5	32
16.12.2014	PF	On	Coconut Based Mixed	0	7	7	0	23	23	0	0	0	0	30	30

			Farming System												
17.12.2014	PF	On	Coconut Based Mixed Farming System	0	7	7	0	23	23	0	0	0	0	30	30
07.01.2015	RY	On	Goatery Management	8	0	8	7	3	10	5	7	12	20	10	30
09.01.2015	PF	On	Poultry Management	7	0	7	9	0	9	11	2	13	27	2	29
17.02.2015	PF	On	Coconut Based Mixed Farming System	16	0	16	13	0	13	0	0	0	29	0	29
27.02.2015	PF	Off	Prevention of Swine Flu	0	37	37	0	0	0	0	0	0	0	37	37
23.03.2015	PF	On	Coconut Based Mixed Farming System	16	0	16	14	0	14	0	0	0	30	0	30

(D) 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	
Coconut	Crop diversification	Friends of coconut tree	6	220	30	250	-	-	-	-

*training title should specify the major technology /skill transferred

(E) 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	
1.	Friends of coconut tree	Crop diversification	August	6	RY	1	17	10	0	0	0	0	17	10	0	27	Coconut Development Board
2.	Friends of coconut tree	Crop diversification	September	6	RY	1	27	12	0	0	0	0	27	12	0	39	Coconut Development Board
3.	Friends of coconut tree	Crop diversification	November	6	RY	1	21	10	0	0	0	0	21	10	0	31	Coconut Development Board
4.	Friends of coconut tree	Crop diversification	December	6	RY	1	16	14	02	0	0	0	16	14	2	32	Coconut Development Board

5.	Friends of coconut tree	Crop diversification	December	6	PF	1	0	0	0	18	9	3	18	9	3	30	Coconut Development Board
6.	Friends of coconut tree	Crop diversification	January	6	RY	1	16	14	02	0	0	0	16	14	2	32	Coconut Development Board
7.	Friends of coconut tree	Crop diversification	February	6	RY	1	15	14	0	0	0	0	15	14	0	29	Coconut Development Board
8.	Friends of coconut tree	Crop diversification	March	6	RY	1	17	12	01	0	0	0	17	12	1	30	Coconut Development Board

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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	02	114	-	114	10	-	10	124	-	124
Kisan Mela	02	3020	455	3475	17	8	25	3037	463	3500
Kisan Ghosthi										
Exhibition										
Film Show	22	600	60	660	8	7	15	608	67	675
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons										
Advisory Services	668	601	667	668	-	-	-	601	667	668
Scientific visit to farmers field	103	900	169	1069	-	-	-	900	169	1069
Farmers visit to KVK	214	3849	1300	5149	37	01	38	3886	1301	5187
Diagnostic visits	36	34	02	36	-	-	-	34	02	36
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										

Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Total										

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	
Radio talks	
TV talks	
Popular articles	
Extension Literature	
Other, if any	

3.5. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q/No.)	Value (Rs)	Provided to number of farmers
Paddy (*Kharif,14*)	Satabdi (IET-4786)	224.4	-	-
Paddy (*Boro,13*)	Satabdi (IET-4786)	631.8	-	-
Blackgram	PU-30	15.0	-	-
Greengram	Samrat	109.8	-	-
Vegetable Seedling		12.5 lakhs	-	-
Total		981 q /12.5 lakh		

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Vegetable seed			49.00	10
Citrus		600 Pcs	300.0	50
Brocolli		264 Pcs	1320.00	99
Grass cutting		0.8q	400.00	53
Wood branches		6 van	3000.00	1
Chilli seedling		500 Pcs	50.00	30

Capsicum seedling		122 Pcs	610.00	70
Black pepper		2 Pcs	40.00	2
Red cabbage seedling		150 Pcs	450.00	8
Brocolli seedling		100 Pcs	300.00	27
Vegetable seedling		30 Pcs	120.00	5
Fodder		0.12q	62.00	7
Cashew Nut saplings		4 Pcs	80.00	1
Arecanut seedlings		58 Pcs	860	77
Beal saplings		5 Pcs	70.00	1
Elephant foot yam	Bidhan Kusum	75.0	1,50,000.00	1
Grand Total			1,57,711.00	442

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Seedlings/Saplings				
Chilli seedling		500 Pcs	50.00	30
Capsicum seedling		122 Pcs	610.00	70
Black pepper		2 Pcs	40.00	2
Red cabbage seedling		150 Pcs	450.00	8
Brocolli seedling		100 Pcs	300.00	27
Vegetable seedling		30 Pcs	120.00	5
Fodder		0.12q	62.00	7
Mango		233	9320.00	50
Cashew Nut saplings		4 Pcs	80.00	1
Arecanut seedlings		58 Pcs	860	77
Beal saplings		5 Pcs	70.00	1
Elephant foot yam	Bidhan Kusum	75.0	1,50,000.00	1
Total			161962.00	50

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilizers			
Bio-pesticide			
Bio-fungicide, *Tricoderma viridea*	74.9 kg	7540.00	10
Bio Agents			
Others			
Total	74.9 kg	7540.00	10

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Goat)	Black Bengal	5	12565.00	5
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Grand Total	Black Bengal	5	12565.00	5

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

Item	Title	Authors name	Number	Circulation
Research paper	Demographic profile and management practices of goat keeping in West Bengal	N.K. Tudu, S.K. Pyne and N. Ghosh		
	Socio-economic profile of pig farmers and improvement of local non-descript deshi pigs through crossing with Ghoongroo pigs	N. K. Tudu and K. K. Goswami		
	Black Bengal goat farming: an important component for integrated farming system	N. K. Tudu, K. K. Goswami and N. Ghosh		
	Relationship of body weight with linear body measurements in three colour varieties of Bengal goats	N.K. Tudu, S.K. Pyne and N. Ghosh		
	Demographic profile and management practices of tribal goat farmers in Nadia district of West Bengal	N. K. Tudu and K. K. Goswami		
	Season wise disease incidence and mortality pattern of Bengal goats under village conditions in Nadia district of West Bengal	N. K. Tudu and K. K. Goswami		
	Socio-economic profile of tribal poultry farmers in Nadia district of West Bengal	N. K. Tudu, D.C. Roy and K. K. Goswami		
Seminar/confer				

ence/ symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports	Comprehensive District Annual Plan (CDAP) of Nadia District	K. K. Goswami and B. Dutta		
Electronic Publication (CD/DVD etc)				
TOTAL				

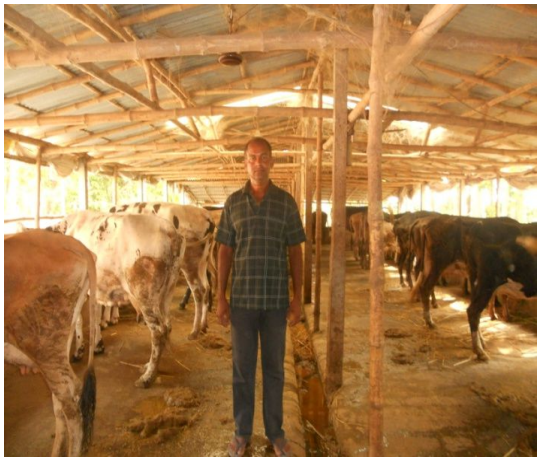
(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	International Seminar	Integrating agriculture and allied research: prioritizing future potentials for secure livelihoods	Dr. Nirmal Kumar Tudu, SMS (Animal Science)	06-09th November, 2014	Crop and weed science society, BCKV
2.	International Seminar	Integrating agriculture and allied research: prioritizing future potentials for secure livelihoods	Dr. Krishna Kishor Goswami, Programme Coordinator	06-09th November, 2014	Crop and weed science society, BCKV
3.	Training programme	Training programme on commercial farming with integrated approach	Dr. Nirmal Kumar Tudu, SMS (Animal Science)	12-13th March, 2015	Directorate of Extension Education, BCKV
4.	National Symposium	Climate resilient forage production and its utilization	Dr. Nirmal Kumar Tudu, SMS (Animal Science)	13-14th November, 2014	Range management society of India, Jhansi and BCKV
5.	Training programme	Training programme on commercial farming with integrated approach	Dr. Krishna Kishor Goswami, Programme Coordinator	12-13th March, 2015	Directorate of Extension Education, BCKV
6.	Training programme	Training programme on commercial farming with integrated approach	Dr. Malay Kumar Samanta, SMS (Horticulture)	12-13th March, 2015	Directorate of Extension Education, BCKV
7.	Training programme	Training programme on commercial farming with	Dr. Subhrajyoti Pramanik, SMS (Seed Science)	12-13th March, 2015	Directorate of Extension Education, BCKV

		integrated approach			
8.	Training programme	Training programme on commercial farming with integrated approach	Mrs. Malabika Debnath, SMS (Plant Protection)	12-13th March, 2015	Directorate of Extension Education, BCKV
9.	Training programme	Training programme on commercial farming with integrated approach	Dr. Debalina Majhi, Programme Assistant	12-13th March, 2015	Directorate of Extension Education, BCKV
10.	Congress	7th National Extension Education Congress-2014	Dr. Krishna Kishor Goswami, Programme Coordinator	08-11th November, 2014	Society of Extension Education and ICAR Research Complex for NEH Region

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

1. Dairy Farming- A success story



Mr. Sumanta Ghosh of Padmabila village under Chakdah block of Nadia district is a progressive dairy owner. Beginning in the year 2010 with two milch cows of crossbred. Sri Ghosh has become the owner of 26 milch cows, 11 calves/ heifers in the year 2015.

With the total land of 2.5 acre, Sri Ghosh has dedicated 1.5 acre land for annual and perennial fodder production. Rest land is dedicated for cowshed and homestead land. Having a small family of five members is completely dedicated to animal rearing which has been turn into commercial venture. Size of the shed, Sri Ghosh owes 1250 sq. ft. with the *pucca* structureand tine shed. Shed and animals are maintained by Sri Ghosh single handedly. Although fodder production involves considerable member of manpower (350 mandays) which is available in his locality. Striking feature of Ghosh venture is that he has not taken any kind of credit from

Govt. or private institutions. Necessary training receive by Sri Ghosh is from Nadia KVK and Department of Animal Resources Development, Nadia, West Bengal. Nadia KVK has also supplied fodder crops like Maize, Barseem, Cowpea, Oats, Rice been, Sorghum, N.B. Hybrid which have successfully grown by him. His fodder growing land has been is point of attraction to neighboring animal growers and also to the officials of Animal Resources Development department, Nadia, West Bengal.

In recognition to his achievement Sri Ghosh has been awarded with "Best farmer award for dairy cattle in Nadia district, 2013-14 by NABARD, Nadia. Ancillary units of Gobar gas plant to energies cowshed, own house and mechanized feed preparing machine. By products of Gobar gas plant, rich inorganic matter is used for fodder cultivation.

Economics:

Expenditure (Rs.)	
Feed	2,600.00/day
Medicine	150.00/day
Milking charge	100.00/day
Fodder cultivation and cutting	100.00/day
Total Expenditure per day	2,950.00
Total Expenditure per year	**10,76,750.00**
Income (Rs.)	
Sale of milk per year (Rs. 4320.00 X 365 days)	15,76,800.00
Sale of 10 calves/heifer per year @ 12000.00/ animal	1,20,000.00
Total	**16,96,800.00**
Net Income (Rs.)	
Rs. 16,96, 800.00 - 10,76,750.00	**6,20,050.00**

2. Integrated Farming System- A success story

Sri Sahadeb Basak, a dedicated and innovative farmer, hails from the village of Buincha Basak Para (Fulia) of Shantipur block, Nadia. Sri Sahadeb Basak, has set an example through devotion and innovation for Agriculture.

Born in 1960, Sri Basak is well educated and has graduated in Sociology with Honours in 1982 from University of Kalyani. He completed Masters Degree in the same subject from the same university in 1985. Later on he chose agriculture as profession and started devoting his time focusing

on a better farming. He did a certificate course in Organic Farming from IGNOU, of BCKV study centre in 2011 and came in contact with Nadia Krishi Vigyan Kendra.

In a total of 3.0 Hectares of land area, he practices Integrated Farming. He usually grows field crops like Paddy, Green gram, Lentil and Sesame etc. covering 1 ha area. He is cultivating some new age horticultural crops viz. Strawberry, Berry and Dragon fruit along with Mango, Jackfruit and Papaya in 1.2 ha land area. He maintains a small dairy unit with 4 number of cows, a good Duckery unit raring about 200 numbers of Khaki Campbell ducks and a noticeable Fishery area covering 1.6 ha land, raring major and minor carps like Chital, Vetki, Prawn, Koi etc. There is a mushroom unit also as a part of his farming venture.

As a progressive farmer he always tries to improve his skill and eager to know every aspects of farming from various sources, trainings, experts, departmental personnel etc. He eventually set a good example of improved cultivation/farming by incorporating those knowledge with his own innovation in front of other farmers. He adopted so many new technologies in farming. Sri Basak adopted organic farming system (including agriculture and horticulture crops, livestock, fisheries, duckaries, mushroom cultivation, bio-gas plant, vermi-composting etc.) with traditional knowledge in the farm since 2000.

He was motivated by the Scientists for cultivation of Aromatic rice and started Aromatic rice-based cropping system since April 2012 under RKVY Project on "Bengal Agromatic Rice" of Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal. As a result, he got the Organic Certification of Aromatic rice-based cropping system from the Certification Agency, IMO Control Pvt. Ltd., Banglore. As a progressive farmer, he always tries do to something more and by adopting advanced technologies he started commercial cultivation of temperate crops (viz. Strawberry, Brocolli, Brushel sprouts etc.) in the field since 2010.

After the success of aromatic rice cultivation he started conserving and cultivating some indigenous rice cultivars (viz. Radhatilak, Gobindabhog, and Kalobhat etc.) and also supplied milled rice to the Department of Agril. Marketing, Govt. of West Bengal during 2012 and 2013.

A glimpse of his farming venture is given bellow:

Activity wise income, cost-benefit ratio, gross and net income year wise for previous two years

Crop/ Animal Husbandry	Year	Expenditure	Gross Income	Net income	Cost: Benefit ratio
Field crops		**Rs./ Ha.**	**Rs./ Ha.**	**Rs./ Ha.**	
Paddy	2011	36,000.00	90,000.00	64,000.00	2.50
Paddy	2012	38,000.00	1,00,000.00	62,000.00	2.63
Greengram	2011	14,500.00	40,000.00	29,000.00	2.75
Greengram	2012	16,000.00	45,000.00	29,000.00	2.81
Horticulture crop					
Strawberry	2011	1,20,000.00	3,20,000.00	2,20,000.00	2.50
Strawberry	2012	1,00,000.00	3,20,000.00	2,20,000.00	3.20
Vegetables	2011	33,000.00	95,000.00	62,000.00	2.87
Vegetables	2012	35,000.00	1,05,000.00	70,000.00	3.00
Fisheries					
Major and minor carps, Chital, Vetki, Prawn etc.	2011	2,50,000.00	5,00,000.00	2,50,000.00	2.00

Major and minor carps, Chital, Vetki, Prawn etc.	2012	2,20,000.00	5,50,000.00	3,30,000.00	2.50
Live Stock					
Dairy (Cow)	2011	45,000.00	55,000.00	10,000.00	1.22
Dairy (Cow)	2012	50,000.00	65,000.00	15,000.00	1.30
Mushroom					
Oister Milky Mushroom	2011	38,000.00	84,000.00	46,000.00	2.21
Oister Milky Mushroom	2012	48,000.00	1,12,000.00	64,000.00	2.33

NOTE: [Paddy = Gobindabhog, Radhatilak, Kalabhat, Kalanunia etc.
Vegetables= Red cabbage, Brocolli, Cherry tomato, Celery Parsely etc.
Fruits = Papaya, Strawberry, Dragon Fruits, Ber, Mango, Jackfruit etc.]

His success influenced neighboring farmers so much that many other farmers get interested and adopt new advanced technologies. Beside traditional crop cultivation, other farmers also take a chance to grow some newly introduced temperate crops. The cultivation of Strawberry has been spread to neighboring farmers fields of Santipur Block in Nadia district and Balagarh Block in Hooghly District. Sri Basak also supplied planting materials of Strawberry to Jalpaiguri KVK, RKM Dayananda Ashram, Hooghly during 2011 and CADC Nadia during 2013. Sri Basak tried another new age crop, Dragon fruit and his success influenced the farmers in Santipur Block of Nadia district so much that they started growing it from 2012.

His interest of cultivating indigenous Rice varieties has been spread into fellow farmers also. Some of them started the cultivation of Kalobhat (black rice) in Balagarh Block in Hooghly district.

As a true innovative farmer, Sri Basak made a new intervention in organic farming by using of Liquid organic manure, which later on practiced in the system of production and management and named as Amritaapani. It is a mixture of leguminous leaves (1 kg), cow dung (5 kg) and cow urine (1 liter) in 20 liters of water kept for 7 days and it is then sprayed mixing with water (1:10 ratio) directly to both agricultural and horticultural crops as organic nutrient in the farm.

As a farmer, he contributed a lot for the organic farming system by innovative ideas and practices. Amritaapani, the liquid organic manure is one of them.

Another is Conservation, recycling and using of farm waste in different manner, like

a. Use cow dung and urine mixed with water in bio-gas plants

b. Use of bio-gas for boiling of water used for sterilization of Paddy straw for mushroom cultivation
c. Use of ducks' litter and *Azolla* as fish feed in farm ponds
d. Use of mushroom wastes and *Azolla* as duck feed
e. Use of vermin-compost as manure in agricultural and horticultural crop fields
f. Use of pond water for irrigation

He tried to mingle the traditional practice with modern technologies and succeeded in prevention of outbreak of disease and pests. Like;

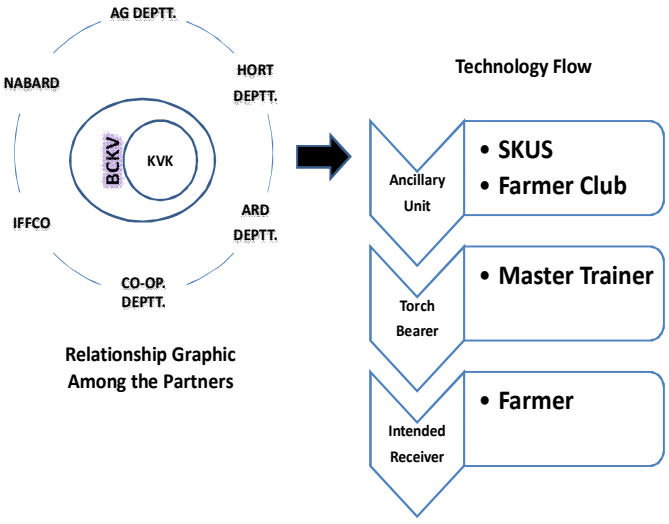
a. Use of fresh Neem leaf-based insecticides (1:10 volume in water) inherited from ancestors produced in farm as botanical pesticide against different types of insect-pests.
b. Use of Tobacco leaf-extract as bio-pesticide (1:10 volume in water) produced in the farm to controls the insects of Cauliflower, Cabbage, Lettuce etc.
c. Use of fresh Tulshi (*Oscimum sanctum*) leaf (50 gm) mixed with cow milk (200 ml) and water (10 liter0 to control wilt disease of solanacious crops in the farm.

His farming skill was recognized and he received a number of awards at different level. He got Krishak Ratna award from Govt. of West Bengal during Mati-Utsav 2015.

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

Innovative methodology

Participatory Technology Proliferation Model for Nadia



Relationship Graphic Among the Partners

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Papaya	Early germinated seedlings of papaya are discarded since it is believed that those ones are usually male plants.	To maximize the sex ratio (Female : Male) in papaya production system since determination of sex is difficult before flowering stage.

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

One of the PRA tools, card sorting method, has been used by this KVK to identify the specific training needs of a particular area. In this method, the farmers present in the meeting are requested to mention the area of training they need which are enlisted in a black board or chart paper which is visible to the farmers. Then the farmers are provided with one card each where they are asked to enlist five areas according to their preference which are already written in the board/chart paper. Scoring is given from 5 to 1 according to rank of preference. Then each individual farmer is asked to read out his own preference. Accordingly weighted score is given. The area of training getting highest score is ranked as first, then second and so on.

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

Sl. No	Name of the Equipment	Qty.
1.	Thermometer (Min & Max)	1
2.	Hair Hygrometer	1
3.	Spectrophotometer	1
4.	Flame photometer	1
5.	p.h meter	2
6.	E.C.meter	1
7.	Digital balance	2
8.	Hot air oven	1
9.	Dryer	1
10.	Desiccators	2
11.	Autoclave	1
12.	Mechanical shaker	2
13.	Water distillation unit	2
14.	Soil moisture meter	1
15.	Microwave	1
16.	Soil digestion unit	1
17.	Fume hood	1

3.11.b. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Total				

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

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
Training programmes, Crop seminar, crop exhibition, crop competition	04	3000	Crop/ livestock

3.14. RAWE programme - is KVK involved? Yes

No of student/ARS trained	No of days stayed
5	99 days

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

Date	Name of the person	Purpose of visit
12.06.2014	Dr. Hammadur Rahman, Professor of Agricultural Extension, Bangladesh Agricultural University, Bangladesh	Interaction with KVK Scientists
21.08.2014	Dr. M.S. Basu, Ex-Director, National Research Centre for Groundnut	Interaction with KVK Scientists
18.09.2014	Prof. C.R. Kole, Vice-Chancellor, BCKV	Seminar on Horticulture
27.03.2015	Prof. C.R. Kole, Vice-Chancellor, BCKV	Training programme on Horticulture

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)
Nematode resistant tuberose variety	415	97	45,050.00 in one year in 0.133 ha land	1,20,250.00 in one year in 0.133 ha land
Variety replacement of cereals	720	82	***Kharif* paddy:** 9,938.00/ha ***Boro* paddy:** 35,288.00/ha	***Kharif* paddy:** 16,883.00/ha ***Boro* paddy:** 67,193.00/ha

Variety replacement of pulse	525	78	**Lentil :** 20,485.00/ha	**Lentil :** 21,113.00/ha
Variety replacement of oilseed	-	75	-	-
Variety replacement of jute	-	79	-	-

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**
Nematode resistant tube rose variety Prajjal	675 ha. of land has been covered by the variety Prajjal spreading from Nadia, Murshidabad to Malda
Kharif Onion, Variety-Agri found Dark Red	Traditionally Sukhsagar variety is cultivated in *Rabi* season, but due to nationwide price hike of onion, the said variety was introduced and has spread in 70 ha of land in Nadia district.
High value crop under protected cultivation	Started as pilot project at Nadia KVK; now 44 poly houses have been constructed in the district. Horticulture department, considering it as potential venture, has proposed to enhance the number in the district. All the seedling required for protected structures are being supplied by Nadia KVK
Nematode management in pointed gourd through vine treatment	This technology has spread in approximately 25 ha. of land covered under pointed gourd. The technology has been spreading rapidly in course of time.
Application of trichoderma viride for disease management	Application of trichoderma viride for disease management has been adopted by the farmer in various crops like Chilli, Cabbage, Cauli-flower, Betelvine etc. Approximately 15 ha. of land of various crops has been brought under this technology. It has become popular but due to shortage of supply farmers are not getting the benefit.

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

a. Area proliferation of Bengal Aromatic Rice-its impact

Gobindabhog is one of the most promising varieties of rice varieties in West Bengal. It is largely cultivated in Gangetic plain of the state like Barddhaman, Hooghly and Nadia. This KVK in association with the University has taken an endeavor to expand the area of this immensely potential variety and also to explore the export potentiality of it. The involvement of the farmers and the area covered by this variety is shown below.

Block	No. of farmers		Cultivated area in ha.	
	2013	2014	2013	2014
Chakdah	114	144	21.33	23.99
Haringhata	139	194	25.33	30.26
Ranaghat 1	20	20	2.66	2.66
Ranaghat 2	72	102	18.66	21.32
Shantipur	40	40	5.33	5.33
Hanskhali	53	53	8.00	8.00
Karimpur	15	15	2.66	2.66
Total	453	568	83.97	94.22

In 2013, only 453 farmers were involved as compared to 568 farmers in 2014 and the area covered in2013 was 83.97 ha. which extended up to 94.22 ha. in 2014.

b. Organic production system- A new dimension

Nadia KVK in collaboration with Govt. of West Bengal initiated Border Area Development Programme in seven bordering villages of seven bordering blocks in the year 2013. The programme is sponsored by Govt. of India. In the year 2013, the area under this program was 131.8 ha. of land under the leadership of seven farmers' clubs of seven respective villages. All the area covered at individual village is contiguous. But due to some technical and administrative problem the area covered in the year 2014 has been reduced to

Area covered under seven organic villages of seven blocks under BADP

Sl. No.	Block-B Village-V	Crops						Total land (ha)
		Wheat	Paddy	Mustard	Pulse	Vegetable	Others	
1	B- Karimpur-I V-Harekrishnapur	14.4	0.4	8.8	2.66	2.4	1.6	30.26
2	B- Karimpu- II V- Vogaipur	5.06	0.26	1.46	2.0	5.6	0.26	14.64
3	B- Tehatta-I V- Betailal Bazar	8.0	7.73	8.0	8.26	5.33	-	37.32
4	B- Chapra V- Shimulia	2.53	-	-	-	2.8	0.66	5.99
5	B- Krishnaganj V- Dharampur	0.4	7.73	0.4	0.26	1.2	-	9.99
6	B- Hanskhali V- Fatepur	-	0.66	3.2	3.2	12.93	-	19.99
7	B- Ranaghat II V- Kulgachi	-	-	9.06	2.06	1.06	0.93	13.11
Total		30.39	16.78	30.92	18.44	31.32	3.45	131.3

4.4 Details of innovations recorded by the KVK

Thematic area: Organic production system	
Name of the Innovation	Seed treatment with indigenously prepared materials
Details of Innovator	**Ingredients:** Water: 20 lit Cow urine : 5 lit Cow dung; 5 kg Lime: 50 g Soil from bund: 1 handful
Back ground of innovation	Due to unavailability of seed and plant material treating chemicals, farmers use this type of indigenously prepared material
Technology details	**Procedure:** Mix the above ingredients and keep the mixture over night. Again mix at morning. Treat the seed with above mixture and dry in shed.

	Ready for sowing. **Root dripping:** Pull the seedlings from seed bed. Dip the root of seedlings in indigenous microbial culture for few second before planting in final field. For Potato, zinger, turmeric, banana, yam like; root crops (rhizome/ tuber etc.) planting material to dip in indigenous microbial culture for few second before planting into final field.
Practical utility of innovation	This culture is very much effected in controlling seed bond diseases of vegetables and crops like Potato, zinger, turmeric, banana, yam, root crops.

4.5 Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Protected cultivation
Name & complete address of the entrepreneur	Shri Nikil De, Village: Jugpur, P.O. Dhokhola, Block: Nakashipara, Dist. Nadia
Intervention of KVK with quantitative data support:	In the year 2011 with an OFT on Capsicum
Time line of the entrepreneurship development	Later on shifted to Gerbera, 2011. Constructed poly house of 650 sqm
Technical Components of the Enterprise	Technical support from KVK, Nadia and plant materials support from NHM, Nadia
Status of entrepreneur before and after the enterprise	Used to produce crops for domestic consumption
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Size of the poly house 650 sqm, Gerbera plant population 3000, stick production 15000 in on season, 10,000 in off season **Economics:** For 500 sqm area poly house Cost of production: 0.75 lakh/ year Loan repayment: 0.32 lakh/ year Total expenditure: 1.07 lakh/ year Total return: 4.40 lakh/ year Net profit: 3.33 lakh/ year (nearly Rs. 28,000/ month)
Horizontal spread of enterprise	Nine more poly houses have been constructed by fellow farmers for the same purpose.

4.6 Any other initiative taken by the KVK

a. Horticulture Seminar

National Horticulture Mission, Nadia provided a fund of Rs. 2.00 lakh to Nadia KVK for documenting a road map on Horticulture in Nadia district. The main purpose of this fund was to find out the current status of Horticultural crops in the district and subsequently to prepare a document on the future road map of horticulture and allied crops. This KVK planned to do this in a workshop mode. The experts of the University, experts from the line department, and progressive farmers of the district were consulted and ultimately it was proposed to hold two seminars, one at KVK campus on 18-19th September, 2014 and another at district head quarter, Krishnanagar, on 17th March, 2015. Before the first seminar, students of the faculty of Horticulture were engaged to document the good horticultural practices followed in the district.

Keeping their primary information in mind, along with vast experience of the scientists of the university and progressive farmers of each blocks of Nadia district, first seminar was organized during 18-19th September, 2014 at Nadia KVK. Hon'ble Vice-chancellor, Prof. Chittaranjan Kole, in presence of Deans, Directors of the University and personnels from the line departments inaugurated the seminar. Eminent scientists of the University delivered their speeches during that seminar which was documented accordingly.

As per suggestion of the district administration, the second phase seminar was organized at the conference hall of District Horticulture Office, Krishnanagar on 17th March. Sri Bani Kumar Roy, Sabhadhipati, Nadia Zilla Parishad inaugurated the seminar in presence of the district administration. The scientists of the university presented their speeches incorporating all the additional information received from the stakeholders of the previous seminar.

Now the process of documentation is going on and hopefully, the documentary road map will be published very soon.

5. LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
Directorate of Research, BCKV	Technological backup
Directorate of Farm, BCKV	Supply of inputs
All India Coordinated Project on Sub-tropical Fruits, BCKV	Technical and plant material support
All India Coordinated Project on Tuber Crops other than potato, BCKV	Technical and plant material support
All India Coordinated Project on Soil Test Crop Response, BCKV	Technical and plant material support
All India Coordinated Project on Nematode, BCKV	Technical and plant material support
All India Coordinated Project on Water Management, BCKV	Technical and plant material support
All India Coordinated Project on Forage Crop, BCKV	Technical and plant material support
All India Coordinated Project on Tropical fruits, BCKV	Technical and plant material support
PAO, Nadia	Formulation of Action Plan
ATMA, Nadia	Fund support & Technology dissemination partner
NHM, Nadia	Fund support & Technology dissemination partner
NABARD	Formulation of Action Plan
IFFCO	Fund Support
Zilla Parishad	Formulation of Action Plan & Fund Support
District Horticulture Office	Formulation of Action Plan
RKVY	Fund support & Technology dissemination partner

5.2. List of special programmes undertaken during 2013-14 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

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

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Farmer Training	Farmer Training	16.09.2014	ATMA	1,12,500.00
Technology week	Technology week	January, 2015	NABARD	1,00,000.00
Farmer Training	Farmer Training	04.03.2015	NHM	1,51,600.00
Friends of coconut tree	Farmer Training	25.08.2014	FOCT	5,34,857.00
Capacity building	Capacity building	23.03.2015	ATMA	10,000.00

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									
	Total								

6.2. Performance of instructional farm (Crops)

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

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

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

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

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

6.5. Utilization of hostel facilities

Accommodation available (No. of beds): 30

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
May, 2014	16	2	
July, 2014	18	2	
August, 2014	48	8	
September, 2014	37	6	
November, 2014	24	6	
December, 2014	54	6	
January, 2015	20	6	
January, 2015	5	1	
February, 2015	9	2	
February, 2015	23	6	
March, 2015	5	6	
Total :	259	51	

6.7. Utilization of staff quarters: NA

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current account	State Bank of India	Kalyani	34601300680

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	Kharif	Rabi	Kharif	Rabi	

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	

7.4 Utilization of funds under FLD on Maize *(Rs. In Lakh)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2012
	Kharif	Rabi	Kharif	Rabi	
TOTAL					

7.5 Utilization of KVK funds during the year 2013 -14 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	70,00,000.00	70,00,000.00	80,79,799.00
2	Traveling allowances	20,000.00	20,000.00	18,039.00
3	HRD	5,000.00	5,000.00	4,500.00
4	Contingencies	5,70,000.00	5,70,000.00	5,70,000.00
5	TSP	1,90,000.00	1,90,000.00	1,89,400.00
Total (A)		**77,85,000.00**	**77,85,000.00**	**88,61,738.00**
B. Non-Recurring Contingencies				
1				
2				
TOTAL (B)		0.00	0.00	0.00
C. REVOLVING FUND		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		**77,85,000.00**	**77,85,000.00**	**88,61,738.00**

7.6. 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)
2014-15	3,86,272.00	1,49,486.00	3,47,408.00	1,88,350.00 + 5,84,500.00 has not been realized yet from Bardhaman Jilla Prishad

7.6. (i) Number of SHGs formed by KVKs (ii) association of KVKs with SHGs formed by other organizations indicating the area of SHG activities: N.A.

7.7. Details of marketing channels created for the SHGs:

Considering the problem of marketing of farm produce, the farmers of Gopalpur SHG, Hanskhali Nadia, have found out their own way to solve it. The members of the group generated their own fund to purchase the produce from the farmers .The payment is made to the producer on spot so that the supply is made regularly to the SHG. Grading and packaging is done by the members and then transported to the distant market of Barddhaman, Durgapur and even to Kolkata. The group has arranged to outlets near Metro Channel, Kolkata so that the organically produced vegetables are marketed to the metropolitan consumers. Recently, NABARD has been kind enough to help the group financially so that they can accumulate more produce and serve the farmers.

7.8. Special programme on Food and Nutrition:

A special programme on food and nutrition was organised at Nadia KVK in collaboration with Department of Vegetable Crops, BCKV on 27.03.2015. A group of 60 rural youths (female) participated in the said programme. Honourable Vice –Chancellor of our University, Prof. Chittaranjan Kole, Dean Faculty Horticulture Prof. P. Hazra, Dean Faculty of Agril. Engineering Prof. S. Mukharjee, Dean Faculty of Agriculture Prof. P. Chakrobarty graced the occasion. Experts from the field of food and nutrition delivered lectures during the programme.

7.9. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	Both
Training programme	10	2014-2015	-	ATMA	-
Training programme	8	2014-2015	Coconut Development Board	-	-
Training programme	1	2014-2015	-	ATMA	-
Training programme	8	2014-2015	Dept. Of Horticulture	-	-
Seminar	1	2014-2015	Dept. Of Horticulture	-	-

8. OTHER INFORMATION

8.1. Prevalent diseases in Livestock/Crops

Name of the disease	Crop/animal	Date of outbreak	Number of death/ % crop loss	Number of animals vaccinated

8.2. Nehru Yuva Kendra (NYK) Training: N/A.

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

8.3. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration
28.02.2015	Dr. M. Ghosh, Dr. P. Satya	60	Paddy	28

8.4. SMS PORTAL

Date of start of functioning of SMS portal: 03.02.2014

No. of messages	No. of calls	No. of farmers covered	Types of messages (No.)					
			Crop	Livestock	Weather	Marketing	Awareness	Other
83	720	101129	37	19	-	-	22	5

8.5 Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
27.02.2015	Cleaning of school premises, Organizing rally, Oath taking, awareness on cleanliness

8.6. Observation of National Science day: Nil

Date of Observation	Activities undertaken

8.7. Programme with Seema Suraksha Bal (BSF): Nil

Title of Programme	Date	No. of participants

8.8. Agriculture Knowledge in rural school:

Name and address of school	Date of visit by the school	Areas covered	Teaching aids used
Chandmari Deshapriya Shikhyayatan, Bedibhawan, P.O. Gayeshpur, Dist. Nadia-741250	05.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Chandmari Nagendrabala Balika Vidyalaya, Bedibhawan, P.O. Gayeshpur, Dist. Nadia-741250	05.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Kantaganj Adarsha Shikhyayatan, Kantaganj, P.O. Gayeshpur, Dist. Nadia-741250	06.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Ravitirtha, Bedibhawan, P.O. Gayeshpur, Dist. Nadia-741250	06.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Gayeshpur Netaji Vidyamandir, P.O. Gayeshpur, Dist. Nadia-741234	07.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Gayeshpur Netaji Balika Vidyamandir, P.O. Gayeshpur, Dist. Nadia-741234	07.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Lichutala Vivekanad Adarsha Vidyalaya, Sugana, Nadia	08.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Kshudiram Bose Institution, P.O. Gayeshpur, Dist. Nadia-741234	08.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Uttarpara Boys A, P.O. Gayeshpur, Dist. Nadia-741234	09.01.2015	Crop Science, Horticulture and Animal Science	Slide show

Uttarpara Boys B, P.O. Gayeshpur, Dist. Nadia-741234	09.01.2015	Crop Science, Horticulture and Animal Science	Slide show
Chandmari Deshapriya Shikhyayatan, Bedibhawan, P.O. Gayeshpur, Dist. Nadia-741250	05.01.2015	Crop Science, Horticulture and Animal Science	Slide show

8.9. Report on Citizens' Client Charter (attending the requests seeking guidance on agricultural technology and technology products)

Sl. No.	Services/ Transaction	Process	Service Standard	No. of such services attended by KVKs and ATICs during the year	No. of such services pending with KVK/ATIC beyond 30 days
1.	Guidance on Agricultural technology and technology products	Personal contact by the Service Sectors with the responsible person of KVK/ATIC	300	195	Nil

8.10. Community Radio Station: N.A.

Date of establishment:
Amount of fund received yearwise:
Source of fund:
Achievements:

Sl. no	Community Radio Stations (CRS)	No of programmes in the year	Total broadcast hrs in a month	Please specify details of the broadcasts
A.	Agricultural broadcasts • Talks/interviews/discussions with experts, PG students/ and farmers on Agricultural technologies • Agroclimatic conditions, weather and marketing advisory • Phone–in programme of interface with experts • Phone-in programme with interface of progressive/innovative farmers • Success stories of progressive farmers			

B.	• Success stories in FLD/OFT/ Trainings /Extension activities • Women in agriculture programme • Discussions on current issues in agriculture and allied sectors. • KVK happenings • Agricultural University professors. • Any other(please specify) Community development broadcasts Please specify the programmes like rural development, educational, health, environment, public service broadcasts, sports etc.			

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

Farmers	Numbers
Progressive farmers	300
Innovative farmers	5
Lead farmers	10

8.12. Utilization of HRD fund (Rs 0.50 Lakh provided to KVKs)

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme	Amount spent for the purpose (Rs.)
7th National Extension Education Congress-2014	08-11th November, 2014	Dr. Krishna Kishor Goswami	Programme Coordinator	Society of Extension Education and ICAR Research Complex for NEH Region	4,500.00

8.13. Revenue generation:

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Sale of farm produce and hostel rent	1,49,486.00	-

8.14. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1.	Training	Farmers training	ATMA	112500.00	-
2.	Technology Week	Farmers training	NABARD	100000.00	-
3.	Training	Farmers training	NHM	151600.00	-
4.	Training	Farmers training	FOCT	534857.00	-
5.	Training	Capacity building	ATMA	10000.00	-

8.15. Performance of Automatic Weather Station in KVK: N.A.

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

8.16. IPNI Trail (Applicable for KVKs identified under IPNI trial): N.A.

I Name of Crop
II No. of farmers involved
III Area (ha.)
IV Date of sowing
V Crop Season
VI Result of trial with photographs however detailed results/observation should be
sent as per performance after crop harvest
VII Amount Spent

9. Achievement under TSP Project

Name of the village adopted under TSP	Block	Population of the village			ST Population of the village			Percentage of ST population to total population
		M	F	T	M	F	T	
Kutirpara	Hanshkhali	275	225	500	250	200	450	90%
Udhamdanga	Nakashipara	380	320	700	380	320	700	100%
Audiya	Karimpur-II	675	525	1200	490	470	960	80%
Naikaradurlavpur	Krishnanagar-I	380	370	750	270	255	525	70%

Asset created under TSP: 30 nos. of Ghoongroo pig units
Fund received under TSP in 2014-15:- 1,90,000.00 lakh

10. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2014-15 (Applicable for KVKs identified under NICRA): N.A.

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

11. National Initiative on Fodder Technology Demonstration (NIFTD)
(Applicable for KVKs identified under NIFTD)

Name of the fodder crop	Date of sowing	Area (ha)	No. of farmers involved	Demonstration Yield (q/ha)			Check Yield			% increase
				H	L	A	H	L	A	
Cowpea	07.07.2014	1 ha	30	250	175	212.5	225	150	187.5	13.33
Rice bean	09.07.2014	0.6 ha	22	300	250	275.0	250	200	225.0	22.22
Sorghum	08.07.2014	0.3 ha	8	300	260	280.0	275	210	242.5	15.46
Maize	10.07.2014	0.5 ha	14	160	125	142.5	140	100	120.0	18.75
N.B. Hybrid	21.08.2014	1 ha	85	350	275	312.5	300	225	262.5	19.04
Oats	26.11.2014	0.2 ha	20	350	275	312.5	325	245	285.0	9.64
Barseem	26.11.2014	0.3 ha	10	450	350	400.0	400	325	362.5	10.34

Economic of Demonstration

Name of the fodder crop	Demonstration Cost/Rs/ha			Check Cost (Rs/ha)		
	Gross cost	Gross return	BC ratio	Gross cost	Gross return	BC ratio
Cowpea	10820.00	53125.00	4.90	10820.00	45350.00	4.19
Rice bean	10820.00	68750.00	6.35	10820.00	59570.00	5.79
Sorghum	10820.00	50400.00	4.66	10820.00	43650.00	4.03
Maize	12180.00	28500.00	2.34	12180.00	19780.00	1.62
N.B. Hybrid	24080.00	56250.00	2.34	24080.00	49250.00	2.04
Oats	10820.00	62500.00	5.78	10820.00	57850.00	5.34
Barseem	11670.00	100000.00	8.57	11670.00	89750.00	7.69

12. Awards/Recognition received by the KVK (N/A)

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	Farmers Award	Manas Ray	2015	Govt. of West bengal	Nil	Outstanding achievement in the field of Agriculture
2	Farmers Award	Ashok Biswas	2015	Govt. of West bengal	Nil	Outstanding achievement in the field of Sericulture
3	Farmers Award	Mintu De Sarkar	2015	Govt. of West bengal	Nil	Outstanding achievement in the

						field of ARD
4	Farmers Award	Anupam Sarkar	2015	Govt. of West bengal	Nil	Outstanding achievement in the field of Horticulture
5	Farmers Award	Syamal Karmakar	2015	Govt. of West bengal	Nil	Outstanding achievement in the field of Fishery
6	Kishak Ratna	Imdajul Ali Mondal	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
7	Kishak Ratna	Gopal Roy	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
8	Kishak Ratna	Subar Basak	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
9	Kishak Ratna	Madan ghosh	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
10	Kishak Ratna	Arup Biswas	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
11	Kishak Ratna	Amit Kumar Biswas	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
12	Kishak Ratna	Samir Kumar Biswas	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
13	Kishak Ratna	Azizur rehman Shekh	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
14	Kishak Ratna	Tapas Mandal	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
15	Kishak Ratna	Sewaram Ghosh	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
16	Kishak Ratna	Anup Kumar Ghosh	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
17	Kishak Ratna	Sanatan Sarkar	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
18	Kishak Ratna	Abdul Hai Karim	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
19	Kishak Ratna	Bifal Mallick	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture

20	Kishak Ratna	Santosh Biswas	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
21	Kishak Ratna	Asit Mandal	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture
22	Kishak Ratna	Nitai Mandal	2015	Deputy Director of Agriculture(Admin), Nadia	Nil	Outstanding achievement in the field of Agriculture