ANNUAL REPORT

(April, 2015 to March, 2016)

भाकृअनुप
ICAR

ज्ञानेन ऋदूध्यताम् सीता
BIDHAN CHANDRA
KRISHI VISWAVIDYALAYA
WEST BENGAL

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.nadiakvk.org

C O N T E N T

ANNUAL REPORT

(April 2015 to March 2016)

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@gmail.com nadiakvk@yahoo.com Website:www.nadiakvk.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	kkgag2005@gmail.com

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, 2016)

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/-) 57,110.00	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) 28,260.00	25/10/2005	Permanent	Others
4	Subject Matter Specialist	Dr. Shubhra Jyoti Pramanik	Subject Matter Specialist	Seed Science	15600-39100(GP-5400) 28,260.00	26/10/2005	Permanent	Others
5	Subject Matter Specialist	Mrs. Malabika Debnath	Subject Matter Specialist	Plant Protection	15600-39100(GP-5400) 28,260.00	26/10/2005	Permanent	Others
6	Subject Matter Specialist	Dr. Nirmal Kumar Tudu	Subject Matter Specialist	Animal Science	15600-39100(GP-5400) 34,288.00	31/08/2006	Permanent	ST
7	Subject Matter Specialist	Vacant	Subject Matter Specialist	Soil Science	-	-	-	-
8	Programme Assistant	Vacant	Programme Assistant	-	-	-	-	-
9	Computer Programmer	Mr. Jharnendu Hembram	Computer Programmer	Computer Application	9,300-34,800 (GP-4200) 13,910.00	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) 11,090.00	24/10/2005	Permanent	Other
14	Supporting staff	Mr. Rishikesh Roy	Driver	-	5200-20200(GP-2000) 11,090.00	30/08/2006	Permanent	SC
15	Supporting staff	Mr. Prasanta Biswas	Supporting staff	-	5,200-20,200(GP-1800) 9,450.00	26/10/2005	Permanent	SC
16	Supporting staff	Mr. Biswajit Hansda	Supporting staff	-	5,200-20,200(GP-1800) 9,450.00	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	1,58,890 km	Working
Tractor	March, 2005	4,29,440.00	575.9 hr	Working
Motor Bike (2 no.)	March, 2016	1,20,000.00	Just purchased	Working

C) Equipment & AV aids: NA

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
b. Farm machinery				
c. AV Aids				

D) Farm implements: NA

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund

1.8. Details SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	9.6.15	21	Production of tricoderma on commercial basis should not be done	Production of tricoderma is done for KVK consumption only	
			Extension activities of the KVK Should be increased	Extension activities has considerably being increased in spite of insufficient staff strength	
			Nursery management in plug tray should be encouraged	This KVK has taken special initiative to popularize plug tray method which is specially followed for vegetable nursery management.	
			Normal dose of fertilizer for ginger and turmeric production should be advocated	Though it is not followed by farmers, we are advocating normal dose of fertilizer for ginger and turmeric production including application of organic matter in intercropping for more rhizome setting	
			Region specific approach for kharif onion production should be followed	Specialized areas of onion production like Simurali of Chakdah block has been given due importance for kharif onion	
			Impact analysis of KVK activities should be done	This KVK has completed ten years and initiative has been	

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
			after ten years of inception	taken to analyze its impact	
			Importance should be given to train personnel's of line department	Several communication has been made to the departments but no response has been received for training of personnel's of line department	
			Micro-irrigation system should be popularized in the district	Nearly forty protected structure have been established in the district. All are equipped with micro-irrigation system	
			Post harvest, storage and value addition of crops should be encouraged	Training on post harvest, storage and value addition of crops have been conducted to rural youths including female members	

** 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 (2015-16)

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.

Sl. no.	Item	Information
		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	47696	17179.7	3602
2.	Kharif paddy	97006	40329.3	4157
3.	*Boro* paddy	94331	52653.6	5582
4.	Wheat	44269	14902.0	3366
5.	Maize	3150	823.4	2614
Oilseeds				
1.	Mustard	77153	9077.1	1177
2.	Sesame	29184	3463.7	1187
3.	Ground nut (Rabi & Summer)	7499	1590.2	2121
4.	Linseed	5458.50	8936.02	1646.00
5.	Sunflower	1295	738.91	570.00
Pulses				
1.	Gram	6788	729.1	1074
2.	Lentil	25602	2463.4	962

Sl. no.	Item		Information		
	3.	Pea	1950.00	2070.70	1061.00
	4.	Lathyrus	2285.00	1416.73	620.00
	5.	Green gram	1654	104.0	629
	6.	Black gram (Kharif)	5815.00	4316.90	742.00
	7.	Black gram (Rabi)	1848.00	1482.80	802.00
	8.	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
	Flower				
	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 15	102.3	35.9	24.0	89.6	56.7
May 15	33.1	37.6	27.2	88.9	59.0
June 15	344.0	34.6	26.9	91.9	72.0
July 15	464.3	32.3	25.9	97.8	86.1
August 15	193.6	33.4	26.8	94.8	76.8
September 15	227.3	33.1	26.1	96.0	71.0
October 15	42.1	33.4	23.7	94.2	62.5
November 15	0.0	31.3	18.8	93.1	53.3
December 15	6.6	26.3	15.0	93.1	56.3

Sl. no.	Item	Information				
	January 16	3.0	25.8	11.9	92.8	53.3
	February 16	31.9	30.7	18.0	92.8	53.9
	March 16	35.8	34.3	21.8	91.7	47.5
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. b. Details of operational area/villages (2015-16)

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 Parari Bardhanpara	Paddy, jute, mustard, winter & summer vegetables, pulse crop, fruits mainly guava, banana & citrus, goatery, poultry, cattle Flower, fodder	*Bio physical* Yield plateaning of major crops *Improper crop husbandry *Non availability of quality seed and planting material *Soil health deterioration *High	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

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
		Haringhata	Mollabelia Nischintapur Kastodanga Bhabanipur Dhakhin Brahmapur		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 and backyard system management. Lack of market support. Lack of	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 capability up gradation.
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		
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		

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
					awareness on export oriented horticulture. Inadequate credit flow.	

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS in 2015-16 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 of Various horticultural crops.
Bardhanpara	Chakdah	Fodder demonstration programme
Parari	Chakdah	Front line demonstration and training
Champatala	Chakdah	Pest and disease management programme on various vegetables carried out.
Gopalpur	Hanskhali	Krishi mela, training trail and demonstration.

2. d. Sansad Adarsh Gram Yojona; NA

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

2.1 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 2015-16:

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 yellow mite in chilli under irrigated upland situation of Nadia district, West Bengal							
2.	Problem diagnosed	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 yellow mite (*Polyphagotersonimus latus*). 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, leaves curl dounward and yield reduce drastically.							
3.	Details of technologies selected for assessment/refinement	**Farmers' practice:** Indiscriminate use of pesticide mainly docofol, carbosulfan etc. **Technology option 1 =** Spraying with Fenazaquin @ 0.75ml/L after initiation of infestation. **Technology option 2 =** Spraying with Diafenthiuron @ 1g/L after initiation of infestation.							
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 mite/ 3 leaves pre spray**	**Average no mite/ 3 leaves 48 hrs after spray**	**Average no mite/ 3 leaves 5 days after spray**	**Average yield (q/ha)**	**Gross cost (Rs./ha)**	**Gross return (Rs./ha)**	**BC Ratio**
		Technology option 1= Spraying with Fenazaquin @ 0.75ml/L after initiation of infestation.	49.29	6.71	6.29	118.69	116250.00	261118.00	2.24
		Technology option 2 = Spraying with Diafenthiuron @ 1g/L after initiation of	50.43	13.57	16.28	105.93	111975.00	233046.00	2.08

		infestation interval.							
		Farmer's practice (indiscriminate use of pesticide)	53.57	24.14	23.28	96.96	111750.00	213312.00	1.91
		SEm±	**4.06**	**2.64**	**2.66**	**2.69**	**-**	**-**	**-**
		CD(P=0.05)	**14.71**	**9.56**	**8.17**	**8.24**	**-**	**-**	**-**
7.	Final recommendation for micro level situation	From the result it is clear that the Technology option 1 i.e Spraying with Fenazaquin @ 0.75ml/L after initiation of infestation exhibited superiority in all the parameters than Technology option 2 and farmer practice.							
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, though Technology option 1 was best. 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 yellow mite in chilli.
Technology assessed: efficiency of seedling root dipping to control yellow mite in chilli.

Table:

Technology option	No. of trials	Average no mite/ 3 leaves pre spray	Average no mite/ 3 leaves 48 hrs after spray	Average no mite/ 3 leaves 5 days after spray	Average yield (q/ha)	Gross cost(Rs./ha)	Gross return (Rs./ha)	Net Return	BC Ratio
Technology option 1 = Spraying with	7	49.29	6.71	6.29	118.69	116250.00	261118.00	144868	2.24

Fenazaquin @ 0.75ml/L after initiation of infestation.									
Technology option 2 = Spraying with Diafenthiuron @ 1g/L after initiation of infestation interval.		50.43	13.57	16.28	105.93	111975.00	233046.00	121071	2.08
Farmer's practice (indiscriminate use of pesticide)		53.57	24.14	23.28	96.96	111750.00	213312.00	101562	1.91
SEm+		**4.06**	**2.64**	**2.66**	**2.69**	**-**	**-**		**-**
CD(P=0.05)		**14.71**	**9.56**	**8.17**	**8.24**	**-**	**-**		**-**

Results: From the result it is clear that the Technology option 1 *i.e.* Spraying with Fenazaquin @ 0.75ml/L after initiation of infestation exhibited superiority in all the parameters than Technology option 2 and farmer practice.

OFT-2

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	**Farmers Practice=** Dairy management with traditional cow keeping including traditional milking practices **Technology option 1 =** Udder washing before and after each milking with neem leaf-boiled-water **Technology option 2 =** 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)**	**Gross return (Rs./Unit)**	**Gross cost (Rs./ha)**	**Net return (Rs./Unit)**	**BC ratio**
		Technology option 1 = Udder washing before and after each	7.28	67570.00	43515.00	24055.00	1.55

		milking with neem leaf-boiled-water					
		Technology option 2 = Udder washing before and after each milking with potassium permanganate solution in water (1:1000)	8.46	72325.00	45235.00	27090.00	1.59
		Farmers Practice= Dairy management with traditional cow keeping including traditional milking practices	6.00	60646.00	41413.00	19233.00	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)	Gross cost (Rs./ha)	Net return (Rs./Unit)	BC ratio
Technology option 1 = Udder washing before and after each milking with neem leaf-boiled-water	7	7.28	67570.00	43515.00	24055.00	1.55
Technology option 2 = Udder washing before and after each milking with potassium permanganate solution in water (1:1000)		8.46	72325.00	45235.00	27090.00	1.59
Farmers Practice= Dairy management with traditional cow keeping including traditional milking practices		6.00	60646.00	41413.00	19233.00	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-3

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. Bullet **Technology option 1 =** Green Capsicum var. **Asha** **Technology option 2 =** Green Capsicum var. **Indra**
4.	Source of Technology	Nadia KVK (NHM funded ad-hoc project)
5.	Production system and	Vegetable based production system

	thematic area	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. Bullet	60.30	150.29 (12.26)	1,25,000/-	1.83
		Technology option 1 = Green Capsicum var. **Asha**	49.84	158.68 (12.60)	2,00,000/-	2.07
		Technology option 2 = Green Capsicum var. **Indra**	54.99	146.86 (12.12)	1,77,500/-	1.95
		SEm±	**1.345**	**0.079**	**-**	**-**
		CD(P=0.05)	**4.87**	**0.287**	-	-
		Values in the parenthesis are the square root transform value				
7.	Final recommendation for micro level situation	From the result it is clear that the Technology option 1 i.e. variety Asha (Yield 158.68 Q/ha) perform better than the variety Indra (Yield 146.86 Q/ha). The yield of Farmer Practice i.e. Cultivation of Chilli var. *Bullet* is 146.86 Q/ha. As the average marketable price of Capsicum is higher (Rs. 30/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 (145-160 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.				
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)	Gross Cost (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
Farmers Practice = Cultivation of Chilli var. Bullet	60.30	150.29 (12.26)	1,50,00/-	2,75,500/-	1,25,000/-	1.83
Technology option 1 = Green Capsicum var. **Asha**	49.84	158.68 (12.60)	1,87,500/-	3,87,500/-	2,00,000/-	2.07
Technology option 2 = Green Capsicum var. **Indra**	54.99	146.86 (12.12)	1,87,000/-	3,65,000/-	1,77,500/-	1.95
SEm+	**1.345**	**0.079**			-	-
CD(P=0.05)	**4.87**	**0.287**			-	-
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 158.68 Q/ha) perform better than the variety Indra (Yield 146.86 Q/ha). The yield of Farmer Practice i.e. Cultivation of Chilli var. *Bullet* is 146.86 Q/ha. As the average marketable price of Capsicum is higher (Rs. 30/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 (145-160 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.

OFT-4

1	Title of On farm Trial	Performance evaluation of improved high yielding varieties of Lentil in *rabi* season under irrigated farming situation of high humid New Alluvial Zone of Nadia District
2	Problem diagnosed	Low production potentiality of local cultivars with lots of impurities
3	Details of technologies selected for assessment/refinement	Farmers' practice: **Local Cultivar** Technology option 1 = **PL-6** Technology option 2 = **PL-406**
4	Source of Technology	Project "Enhancing Lentil Productivity under rice-based cropping system in West Bengal", ICARDA, South Asia-China Regional Programme, New Delhi.

5	Production system and thematic area	Jute-Paddy-**Lentil**-Green gram Varietal Evaluation											
6	Performance of the Technology with performance indicators	**Treatment**	**Plant Height (cm)**	**No. of primary branches/plant**	**No. of secondary branches/plant**	**Pod/plant**	**Seed/pod**	**1000 seed weight (g)**	**Seed yield (q/ha)**	**Cost of cultivation (Rs/ha)**	**Gross return (Rs/ha)**	**Net return (Rs./ha)**	**B:C ratio**
		Farmers' Practice (Local Cultivar)	40.8	6.4	8.0	66.2	1.2	18.4	9.0	28,500	58,500	30,000	2.0
		Technology option 1(PL-6)	41.6	7.8	8.8	79.0	1.6	24.6	10.4	28,500	67,600	39,100	2.37
		Technology option 2(PL-406)	40.2	6.8	8.2	72.4	1.4	22.4	9.8	28,500	63,700	35,200	2.23
		C.D. (P=0.05)											
7	Final recommendation for micro level situation	Although variety PL-6 performed better than the other varieties but its required another season for final recommendation											
8	Constraints identified and feedback for research	Less-availability of PL-6 in the market and problem in storage.											
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 local cultivars with lots of impurities
Technology assessed: Seed production potential of the varieties

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield(q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
Farmers' Practice (Local Cultivar)	7	-	-	1.84 g	-	9.0	28,500	58,500	30,000	2.0
Technology option 1(PL-6)	7	-	-	2.46 g	-	10.4	28,500	67,600	39,100	2.37
Technology option 2(PL-406)	7	-	-	2.24 g	-	9.8	28,500	63,700	35,200	2.23

Results: From the result it is clear that the Technology option 1 that is variety PL-6 exhibited higher yield than the farmer practice. It also fetch higher price in the market due to better colour and texture.

Ongoing Trials:

Profit maximization of mango orchard through multiple cropping systems under irrigated new alluvial zone of Nadia district **Farmer Practice =** Mango as mono crop **Technology option1 =** Mango + Turmeric (var. soguna) as intercrop **Technology option 2 =** Mango + Ginger (var. Gurubathan) as intercrop	Effect of alternative milk on goat kids survival and performance. **Technology option 1 (FP) =** No alternative milk* **Technology option 2 =** Feeding of 200 ml/day/kid of alternative milk* up to 60 days **Technology option 3 =** Feeding of 300 ml/day/kid of alternative milk* up to 60 days
Determination of sex ratio with respect to speed of germination in papaya (*Carica papaya)* in upland situation of Nadia district, West Bengal. **Farmers' practice:** Sowing of 2-3 seedlings/pit and rouging unwanted male plants from female papaya plantings at flowering stage. **Technology option 1:** Seedlings which are germinated within 0-14 DAS. **Technology option 2:** Seedlings which are germinated within 15-21 DAS. **Technology option 3:** Seedlings which are germinated within 22-28 DAS.	

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during 2015-16

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	Cauliflower	Off season cultivation	Off season type varieties	1.0	1.0	05	10	15	N.A.
2	Cabbage	Off season cultivation	Off season type varieties	5.0	5.0	16	23	39	N.A.
3	Solanaceous & Cole crops	Vegetable nursery management	Seedling production in plug tray	20 nos	20 nos	13	07	20	N.A.
4	Cucurbits	Vegetable nursery management	Seedling rising of cucurbits in poly bags.	20 nos	20 nos	09	11	20	N.A.
5	Banana	Value Addition	bunch cover (polypropelene)	10.0	10.0	29	26	55	N.A.
6	Vegetables	Women Empowerment	Kitchen Garden	50 unit	50 unit	50	-	50	N.A.
7	Paddy	Seed Production	Seed treatment, Rouging, proper time of harvesting, drying and storage	8.0	6.67	24	26	50	

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					
Cauliflower	Summar, 15	Irrigated	Sandy loam	1.04	18.14	127.13	Vegetable	2 nd week of May	1st week of October		
Cabbage	Early Rain,15	Irrigated	Sandy loam	1.49	25.87	127.32	Vegetable	2nd week of June	2nd week of December		
Solanaceous & Cole crops	Rabi,15	-	-	-	-	-	-	Sept.,15	-		
Cucurbits	Late Rabi,15	-	-	-	-	-	-	Jan.,16	-		

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					
Banana	Year the round	Irrigated	Loamy	1.21	17.33	140.13	Banana	June,15	-		
Vegetables	Year the round	Irrigated	Backyard	1.04	17.14	137.13	-	Octo.,15	Throughout the year		
Paddy	Kharif	Irrigated	Sandy loam	-	-	-	Jute	2nd week of August	2nd Week of December	469.6	-

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	Seed Production	**Pusa Mahak (JD-6)** Variety, Seed Treatment, PPC, Micro- Nutrient	141	30.5	14.25	18.75	-24.0	31,500	64,125	32,625	2.0	26,250	84,375	58,125	3.2
Groundnut	Seed Production	**K-6** Variety, Seed Treatment, PPC, Micro- Nutrient	137	30.0	-	-	-	-	-	-	-	-	-	-	-
Sesame	Seed Production	**Savitri** Variety, Seed Treatment, PPC, Micro- Nutrient	120	30.0	-	-	-	-	-	-	-	-	-	-	-
Total			**398**	**90.5**	**14.25**	**18.75**	**-24.0**	**31,500**	**64,125**	**32,625**	**2.0**	**26,250**	**84,375**	**58,125**	**3.2**

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

** BCR= GROSS RETURN/GROSS COST

Pulses:

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Lentil	Seed Production	**Moitree** Variety, Seed treatment, Bio-fertilizer, PPC, Micro- Nutrient	109	20.0	10.5	9.0	16.7	27,000	68,250	41,250	2.5	24,000	58,500	34,500	2.4
Chickpea	Seed Production	**JAKI-9218** Variety, Seed treatment, Bio-fertilizer, Micro-Nutrient	139	30.0	13.7	12.75	7.5	32,250	92,300	60,050	2.9	31,500	82,875	51,375	2.6
Field Pea	Seed Production	**Prakash** Variety, Bio-fertilizer, PPC, Micro- Nutrient	50	5.2	13.2	12.1	9.1	35,250	66,000	30,750	1.9	33,750	60,500	26,750	1.8
Greengram	Seed Production	**Samrat** Variety, Bio-fertilizer, PPC, Micro- Nutrient	120	16.0	-	-	-	-	-	-	-	-	-	-	-
Total			**418**	**71.2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

* 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
Cauliflower	Crop diversification	Off season cultivar var. Don (F1 hybrid)	7	0.5	-	107.00	-	-	-	2.38lacs	4.86lacs	2.48lacs	2.04	-	-	-	
Cabbage	Crop diversification	Off season cultivar var. NS 43 (F1 hybrid)	7	0.5	-	259.00	-	-	-	2.22lacs	4.97 lacs	2.75lacs	2.24	-	-	-	-
Paddy	Seed Production	Seed treatment, Rouging, proper time of harvesting, drying and storage	50	6.67	43.6	40.1	8.7	-	-	29,250	41,420	12,170	1.42	28,500	38,095	9,595	1.34
Total																	

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					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	50	50	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																	
Pigerry																	

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
Sheep and goat	Goatery Management	Pure Black Bengal goat	50	50	6 kg b wt	5 kg b wt	83.33%	3	2	700.00	1500.00	800.00	2.14	650.00	1250.00	600.00	1.92
Duckery																	
Others (pl.specify)																	
Total																	

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

Fisheries

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

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

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Vegetable Nursery	Seedling production in plug tray	20	20	97 % success	70 % success	27%	Crop harvested in 60 DAP	Crop harvested in 72 DAP	29,100/- per bigha	55,000/-,per bigha	25,900/- per bigha	1.89	27,900/- per bigha	38,500/- per bigha	10,600/- per bigha	1.38
Vegetable nursery	Seedling rising of cucurbits in poly bags.	20	20	90 % success	75% success	15%	Crop harvested in 50 DAP	Crop harvested in 70 DAP	23,240/- per bigha	45,000/- per bigha	21,760/- per bigha	1.93	21,500/- per bigha	37,500/- per bigha	16,000/- per bigha	1.74
Banana value addition	bunch cover (polypropelene)	55	10 ha	1.25% scarred finger	32% scares finger	30.75%	Ave. Sale value Rs. 240/bunch	Ave. Sale value Rs. 170/bunch	2,61,000/- per ha	7,12,500/- per ha	4,51,500/- per ha	2.73	2,25,000/- per ha	5,13,000/- per ha	2,88,000/- per ha	2.28
Backyard cultivation	Kitchen Garden	50	50 unit	52.5 kg vegetable/month	5 kg/ month	47.5 kg/ month	Monthly saving of Rs. 600/-	Monthly saving of Rs. 50/-	Rs 900 /unit	Rs. 3600/ unit	Rs. 2400/ unit	4.00	Rs 250 /unit	Rs. 600/ unit	Rs. 350/ unit	2.4
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)										

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
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Cauliflower	Merit 10 Dwan	7	0.5	107.00	-	-	2.38lacs	4.86lacs	2.48lacs	2.04
Cabbage	NS 43	7	0.5	259.00	-	-	2.22lacs	4.97 lacs	2.75lacs	2.24
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										

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
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 as compared to 60-70 per annum and body weight at six weeks 500 g of Deshi birds.
2.	Fodder (Barseem, Maize, Rice bean, Oats, N.B. Hybrid, Sorghum)	Newly introduced crops widely accepted by the animal rearers
3.	Pure Black Bengal goat	Production performance is very good but its high multiplicity of offspring is becoming a problem.
4.	Off season cultivation of cole crops	Highly accepted by the farmer.
5.	Seedling production in plug tray	Caused early harvest, less disease problems, highly accepted by the farmer.
6.	Seedling rising of cucurbits in poly bags.	Caused early harvest, less disease problems, highly accepted by the farmer.
7.	Bunch cover (polypropelene)	Quality finger, scar free, high market acceptance.
8.	Kitchen Garden	Women empowerment, monthly expenditure saving, protect mal-nutrition specially the tribals.
9.	Paddy	Farmers prefer high yielding fine grain paddy variety more in kharif season.
10.	Mustard	Existing variety Bullet is giving much more yield than the demonstrated variety Pusa Mahak (JD-6).
11.	Lentil	Variety is accepted, but due to poor weather condition the optimum yield is not received
12.	Chickpea	Variety is accepted, but due to poor weather condition the optimum yield is not received
13.	Field Pea	Variety is accepted, but due to poor weather condition the optimum yield is not received

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):

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													

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
Cropping Systems													
Crop Diversification													
Integrated Farming	8	152	0	152	102	0	102	11	0	11	265	0	265
Water management													
Seed production	3	51	0	51	35	0	35	12	0	12	98	0	98
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	1	23	3	26	32	0	32	2	0	2	57	3	60
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													

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
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	2	39	29	68	11	11	22	0	0	0	50	40	90
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency													

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
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													
Breeding and culture of													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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	1	19	0	19	11	0	11	0	0	0	30	0	30
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, PPV & FRA	6	144	0	144	125	0	125	0	0	0	269	0	269
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	**21**	**428**	**32**	**460**	**316**	**11**	**327**	**25**	**0**	**25**	**769**	**43**	**812**

B) Rural Youth (on campus)

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

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	5	92	0	92	60	0	60	0	0	0	152	0	152
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production	12	167	34	201	145	20	165	18	0	18	330	54	384
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													
Enterprise development	13	132	34	166	150	20	170	0	0	0	282	54	336
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													
TOTAL	**30**	**391**	**68**	**459**	**355**	**40**	**395**	**18**	**0**	**18**	**764**	**108**	**872**

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
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													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL													

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production	3	22	5	27	12	3	15	13	0	13	47	8	55
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 3 (9)	9	222	27	249	319	33	352	52	0	52	593	60	653
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.) 3(3)	3	25	0	25	20	2	22	4	26	30	49	28	77
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													

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
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	1	14	2	16	5	2	7	0	0	0	19	4	23
Poultry Management	1	0	0	0	0	0	0	28	22	50	28	22	50
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	1	0	0	0	0	0	0	17	10	27	17	10	27
Production of quality animal products													
Others, if any Goat farming	1	0	0	0	0	0	0	14	17	31	14	17	31
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													

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													
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	4	97	6	103	176	0	176	4	0	4	277	6	283
Integrated Disease Management	7	199	21	220	208	33	241	21		21	428	54	482
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp													

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
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	10	140	0	140	86	0	86	38	0	38	264	0	264
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	**40**	**719**	**61**	**780**	**826**	**73**	**899**	**191**	**75**	**266**	**1736**	**209**	**1945**

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops 4(2)	2	24	14	38	4	18	22	2	0	2	30	32	62
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL	**2**	**24**	**14**	**38**	**4**	**18**	**22**	**2**	**0**	**2**	**30**	**32**	**62**

F) Extension Personnel (Off Campus)

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

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming	8	152	0	152	102	0	102	11	0	11	265	0	265
Water management													
Seed production	3	51	0	51	35	0	35	12	0	12	98	0	98
Nursery management													
Integrated Crop Management													
Fodder production	3	22	5	27	12	3	15	13	0	13	47	8	55
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	10	245	30	275	351	33	384	54	0	54	650	63	713
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	3	25	0	25	20	2	22	4	26	30	49	28	77
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													

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
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													
Soil and Water Conservation													
Integrated Nutrient Management													
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
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	1	14	2	16	5	2	7	0	0	0	19	4	23
Poultry Management	3	39	29	68	11	11	22	28	22	50	78	62	140
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	1	0	0	0	0	0	0	17	10	27	17	10	27
Production of quality animal products													
Others, if any Goat farming	1	0	0	0	0	0	0	14	17	31	14	17	31
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rural 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	4	97	6	103	176	0	176	4	0	4	277	6	283
Integrated Disease Management	7	199	21	220	208	33	241	21		21	428	54	482
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													

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	11	159	0	159	97	0	97	38	0	38	294	0	294
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, PPV & FRA	6	144	0	144	125	0	125	0	0	0	269	0	269
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	**61**	**1147**	**93**	**1240**	**1142**	**84**	**1226**	**216**	**75**	**291**	**2505**	**252**	**2757**

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production	5	92	0	92	60	0	60	0	0	0	152	0	152
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	2	24	14	38	4	18	22	2	0	2	30	32	62
Commercial fruit production	12	167	34	201	145	20	165	18	0	18	330	54	384
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													

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
culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	13	132	34	166	150	20	170	0	0	0	282	54	336
TOTAL	**32**	**415**	**82**	**497**	**359**	**58**	**417**	**20**	**0**	**20**	**794**	**140**	**934**

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
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													

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
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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					M	F	Total	M	F	Total
Plant Protection	PF	Disease and pest management in rainy season vegetables	1	Off	30	0	30	0	0	0
	PF	Disease and pest management of seedbed of Kharif paddy	1	Off	23	0	23	17	0	17
	PF	Disease and pest management of early cabbage and culiflower	1	Off	20	0	20	8	0	8
	PF	Disease and pest management of Rabi vegetables	1	Off	31	0	31	13	0	13
	PF	Disease and pest management of vegetables	1	Off	30	0	30	10	0	10
	RY	Disease and pest management of coconut	1	On	30	0	30	14	0	14

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					M	F	Total	M	F	Total
	PF	Disease and pest management in seedbed	1	Off	0	36	36	0	23	23
	PF	Disease and pest management of vegetables	2	Off	114	6	120	68	0	68
	PF	Disease and pest management of vegetables	2	Off	128	18	146	74	10	84
	RY	Disease and pest management of coconut	1	On	0	27	27	0	10	10
	RY	Disease management of coconut	1	On	0	27	27	0	10	10
	RY	Insect pest management in coconut	1	On	27	0	27	14	0	14
	RY	Disease management of coconut	1	On	27	0	27	14	0	14
	RY	Insect pest management in coconut	1	On	28	0	28	13	0	13
	RY	Disease management of coconut	1	On	28	0	28	13	0	13
	PF	Disease and pest management of vegetable crops	2	Off	98	13	111	55	0	55
	PF	Disease and pest management of vegetable crops	2	Off	131	0	131	92	0	92
	PF	Disease and pest management of vegetable crops	2	Off	109	0	109	82	0	82
	RY	Disease and pest management of coconut	1	On	32	0	32	24	0	24
	RY	Disease and pest management of coconut	1	On	21	0	21	14	0	14
	RY	Disease and pest management of coconut	1	On	25	0	25	15	0	15
	RY	Disease and pest management of coconut	1	On	23	0	23	11	0	11
	RY	Disease and pest management of coconut	1	On	41	0	41	18	0	18
Horticulture	PF	Seedling management	1	Off	27	0	27	13	0	13
	PF	Winter vegetable cultivation	1	Off	18	0	18	7	0	7
	RY	Off season cultivation under protected structure	1	Off	15	16	31	3	9	12

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					M	F	Total	M	F	Total
	RY	High value crop cultivation	1	Off	15	16	31	3	9	12
	PF	Backyard IFS	1	Off	4	28	32	4	28	32
	RY	Kitchen garden	1	Off	0	50	50	0	50	50
	RY	Coconut cultivation technology	1	On	30	0	30	13	0	13
	PF	High value vegetable cultivation	1	On	57	3	60	34	0	34
	PF	Vegetable seedling production	1	Off	0	36	36	0	23	23
	PF	Vegetable production	2	Off	114	6	120	68	0	68
	PF	High value vegetable cultivation	2	Off	130	16	146	74	10	84
	RY	Coconut production cultivation	1	On	0	27	27	0	10	10
	RY	Button shedding of coconut	1	On	0	27	27	0	10	10
	RY	Coconut production cultivation	1	On	27	0	27	14	0	14
	PF	Vegetable cultivation technology	1	Off	73	0	73	32	0	32
	PF	High value crop cultivation	1	Off	42	0	42	23	0	23
	PF	Vegetable cultivation technology	1	Off	65	0	65	46	0	46
	PF	High value crop cultivation	1	Off	66	0	66	46	0	46
	PF	Vegetable cultivation technology	1	Off	52	0	52	40	0	40
	PF	High value crop cultivation	1	Off	57	0	57	42	0	42
	RY	Button shedding technology	1	On	32	0	32	24	0	24
	RY	Coconut cultivation technology	1	On	21	0	21	14	0	14
	RY	Coconut cultivation technology	1	On	36	0	36	15	0	15
	RY	Button shedding technology	1	On	36	0	36	15	0	15
	RY	Coconut production technology	1	On	32	0	32	15	0	15
	RY	Button shedding technology	1	On	32	0	32	15	0	15
	RY	Coconut production technology	1	On	42	0	42	19	0	19
	RY	Button shedding technology	1	On	42	0	42	19	0	19
Animal Science	PF	Fodder production management	1	Off	14	3	17	7	3	10
	PF	Fodder production management	1	Off	14	0	14	14	0	14
	PF	Goatery management	1	Off	14	17	31	14	17	31
	PF	Poultry management	1	Off	28	22	50	28	22	50

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					M	F	Total	M	F	Total
	PF	Feed management	1	Off	17	10	27	17	10	27
	PF	Fodder seed management	1	Off	19	5	24	4	0	4
	PF	Dairy production management	1	Off	19	4	23	5	2	7
	PF	Coconut based farming system	1	On	30	0	30	13	0	13
	PF	Poultry farming	1	On	0	40	40	0	11	11
	PF	Coconut based farming system	1	On	27	0	27	14	0	14
	PF	Livestock production management	1	On	50	0	50	11	0	11
	PF	Coconut based farming system	1	On	31	0	31	11	0	11
	PF	Coconut based farming system	1	On	31	0	31	11	0	11
	PF	Coconut based farming system	1	On	36	0	36	15	0	15
	PF	Coconut based farming system	1	On	36	0	36	15	0	15
	PF	Coconut based farming system	1	On	32	0	32	15	0	15
	PF	Coconut based farming system	1	On	42	0	42	19	0	19
Seed Science	PF	Seed production of paddy	1	Off	15	0	15	12	0	12
	PF	Seed treatment of paddy	1	Off	20	0	20	11	0	11
	PF	Seed production of pulse	1	Off	20	0	20	8	0	8
	PF	Seed production of pulse	1	Off	20	0	20	7	0	7
	PF	Seed production of pulse	1	Off	30	0	30	12	0	12
	PF	Seed production of oilseed	1	Off	35	0	35	14	0	14
	PF	Seed production of oilseed	1	On	35	0	35	15	0	15
	PF	Seed production of pulse	1	On	33	0	33	20	0	20
	PF	Seed production of pulse	1	On	30	0	30	12	0	12
	PF	Coconut seedling production	1	On	30	0	30	11	0	11
	PF	PPVFRA	1	On	55	0	55	20	0	20
	PF	PPVFRA	1	On	50	0	50	20	0	20
	PF	PPVFRA	1	On	50	0	50	20	0	20
	PF	PPVFRA	1	On	38	0	38	20	0	20
	PF	Seed production of groundnut	1	Off	30	0	30	18	0	18
	PF	Seed production of sesame	1	Off	32	0	32	19	0	19
	PF	Seed production of	1	Off	30	0	30	11	0	11

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					M	F	Total	M	F	Total
		green gram								
	PF	PPVFRA	1	On	31	0	31	20	0	20
	PF	PPVFRA	1	On	45	0	45	25	0	25
	RY	Coconut seedling production	1	On	31	0	31	11	0	11
	RY	Coconut seedling production	1	On	31	0	31	11	0	11
	RY	Coconut seedling production	1	On	30	0	30	12	0	12
	RY	Coconut seedling production	1	On	30	0	30	15	0	15
	RY	Coconut seedling production	1	On	30	0	30	11	0	11
	PF	Green gram seed production	1	Off	32	0	32	12	0	12

H) Vocational training programmes for Rural Youth
Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				M	F	T	Type of units	Number of units	Number of persons employed	
Coconut	Crop diversification	Friends of Coconut trees	7	214	26	240	-	-	-	-

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
					PF/ RY/ EF		Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Friends of coconut tree	Crop diversification	December	7	RY	1	14	13	3	-	-	-	14	13	3	30	CDB, Kolkata
2	Friends of coconut tree	Crop diversification	January	7	RY	1	-	-	-	17	9	4	17	9	4	30	CDB, Kolkata
3	Friends of coconut tree	Crop diversification	January	7	RY	1	20	7	3	-	-	-	20	7	3	30	CDB, Kolkata
4	Friends of coconut tree	Crop diversification	February	7	RY	1	21	4	5	-	-	-	21	4	5	30	CDB, Kolkata
5	Friends of coconut tree	Crop diversification	February	7	RY	1	19	7	4	-	-	-	19	7	4	30	CDB, Kolkata
6	Friends of coconut tree	Crop diversification	February	7	RY	1	16	11	3	-	-	-	16	11	3	30	CDB, Kolkata
7	Friends of coconut tree	Crop diversification	March	7	RY	1	15	13	2	-	-	-	15	13	2	30	CDB, Kolkata

8	Friends of coconut tree	Crop diversification	March	7	RY	1	18	10	2	-	-	-	18	10	2	30	CDB, Kolkata

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	05	110	34	144	-	-	-	110	34	144
Kisan Mela	01	1599	1074	2673	17	10	27	1616	1084	2700
Kisan Ghosthi										
Exhibition										
Film Show	08	177	59	236	04		04	181	59	240
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons										
Advisory Services	632	599	33	632	-	-	-	599	33	632
Scientific visit to farmers field	99	577	311	888	-	-	-	577	311	888
Farmers visit to KVK	222	1970	481	2451	-	-	-	1970	481	2451
Diagnostic visits	41	27	14	41	-	-	-	27	14	41
Exposure visits	8	214	26	240	-	-	-	214	26	240
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, **World soil day**	01									250
Any Other (Specify)										
Total										

B. Other Extension activities

Nature of Extension Activity	**No. of activities**
Newspaper coverage	World Soil Day-1, Rabi Kisan Sammelan cum technology week
Radio talks	
TV talks	
Popular articles	
Extension Literature	
Other, if any	

3.5 Production and supply of Technological products

Village seed/ Planting materials

Crop	**Variety**	**Quantity of seed (q)**	**Value (Rs)**	**Provided to number of farmers**
Paddy (Boro 2015)	Satabdi (IET-4786)	400	1200000.00	
Paddy (Kharif 2015)	Satabdi (IET-4786)	600	1800000.00	
Mustard	Pusa mahak	43.5	195750.00	
Lentil	Moitree	210.0	1365000.00	
Chick pea	JAKI-9218	42.6	276900.00	
Field pea	Prakash	6.9	34500.00	
Vegetable seedling		35.0 lakh		
Saplings		0.4 lakh		
Total		**303 q/ 35.4 lakh**	**4872150.00**	

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Elephant foot yam	Bidhan Kusum	70.0	140000.00	
Ginger	Gorubathan	1.0	6500.00	
Tremeric	Saguna	0.5	3000.00	
Mustard	Pusa Mahak	2.0	13000.00	
Grand Total		**73.5**	**162500.00**	

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Vegetable seedlings				
Cauliflower		500	1,500.00	
Cabbage		500	1,500.00	
Tomato		1,000	5,000.00	
Brinjal		1,000	5,000.00	
Chilli		1,000	5,000.00	
Onion				
Others				
Fruits				
Mango	Himsagar, Langra,Aprapali	5,000	2,00,000.00	
Guava				
Lime	Pati	500	7,500.00	
Papaya	Ranchi Local	100	1,000.00	
Banana				
Others				
Flowers				
Ornamental plants	Annual Flowers	10,000	50,000.00	

Medicinal and Aromatic				
Plantation				
Spices				
Spices (Black pepper)	Panniyur-I and Panniyur-II	200	3,000.00	
Turmeric	Saguna	0.5 q	3,000.00	
Ginger	Gorubathan	1.0 q	6,500.00	
Tuber				
Elephant yams	Bidhan Kusum	70.0 q	1,40,000.00	
Fodder crop saplings				
Forest Species				
Others, pl.specify				
Total				

Production of Bio-Products: NA

Name of product	Quantity	Value (Rs.)	No. of Farmers
	Kg		
Bio Fertilisers			
Bio-pesticide			
Bio-fungicide			
Bio Agents			
Others			
Total			

Production of livestock materials:

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				

Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify) Goat	Black Bengal	50	1,27,000.00	50
Grand Total				

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

Item	Title	Authors name	Number	Circulation
Research paper	Reproduction characteristics of three colour varieties of Bengal goats	Tudu, N.K., Pyne, S.K. and Ghosh, N.		
	Physiological and haemato-biochemical studies of three colour varieties of Bengal goats in their home tract under hot-humid conditions	Tudu, N.K., Pyne, S.K. and Ghosh, N.		
Seminar/conference/ symposia papers	Economic viability study of Capsicum (*Capsicum annuum*) under different growing condition and cropping sequence of farmers' field in the New Alluvial Gangetic plain of West Bengal.	M. K. Samanta, K. K. Goswami and P. Hazra		
Books	Sabji Utpadan Prajukti	K. K. Goswami	1	600

Item	Title	Authors name	Number	Circulation
Bulletins				
News letter				
Popular Articles	Coconut cultivation Technology (Bidhan Krishi)	M. K. Samanta J.K. Hore		
	Seedling raising Technology (Bidhan Krishi)	M K Samanta M Debnath, P Hazra		
Book Chapter	High Value Crop Cultivation	M K Samanta, P Hazra & A Chattpadhyay		
Extension Pamphlets/ literature	Protection Plant Variety & Farmers' Right Act,2001 Small Scale Production of Trichoderma. Rearing of Improved breed of Cattle. Health Management of Domestic Animal. Crop Production information of Some Important Fruit of Nadia District. Crop Production information of Some Important Vegetables of Nadia District. Identification of Some Beneficial Insects and Their Importance.	M K Samanta S J Pramanick N K Tudu M Debnath		
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	International Symposium	Next Generation Approaches for Sustainable Development of Hill and Upland Horticulture	Dr. Malay Kumar Samanta, SMS (Horticulture)	5-7th November, 2015	Department of Horticulture, Sikkim University
2.	Training	Training programme on commercial	Dr. Malay Kumar Samanta, SMS	21-22th March,	Directorate of

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
	programme	farming with integrated approach	(Horticulture)	2016	Extension Education, BCKV
3.	Training programme	Training programme on commercial farming with integrated approach	Dr. S.J. Pramanik, SMS (Seed Science)	21-22th March, 2016	Directorate of Extension Education, BCKV
4.	Training programme	Training programme on commercial farming with integrated approach	Mrs. M. Debnath, SMS (Plant Protection)	21-22th March, 2016	Directorate of Extension Education, BCKV
5.	National Symposium	XXX Annual convention of IAVA and National Symposium on Recent advances in Veterinary Anatomy and their application in the field of Animal Health, Production and Biotechnology	Dr. N.K. Tudu, SMS (Animal Science)	16-18th December, 2015	WBUAFS, Kolkata

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

1. Success story

1	Name	Pintu Mondal
2	Father's name	Sirajul Mondal
3	Date of Birth	10.12.70
4	Full address (with telephone no. & e-mail address, if any)	Vill- Satyapol P.O.- Srikrishnapur P.S.-Haringhata, Dist. – Nadia, Mobile: 8436790911, 9007636962 Email id: pintumondal276@gmail.com
5	Educational qualification	B.A.
6	Experience (in brief)	He has been practicing crop cultivation since last 20 years. He is growing vegetables like brinjal, chilli, pointed gourd and others. He is trying to establish a organic vegetable seed village. He is also encouraging other farmers to grow organic food. He also has a goatery unit.
7	Present position	Cultivation is his passion. He has organized 4 farmers club with the support of NABARD. He also established 5 kishan gosthi and one horticulture cooperative.
8	Outstanding contribution in the field of Agriculture and award received	Apart from his own crop cultivation Sri. Mondal has been engaged in providing advisory services to the farmers of 23 neighboring villages of Nadia. Each of the family of his village has constructed a vermi compost pit (90 nos.) under his leadership. He has also given the leadership to establish an exclusively Horticulture society at Bhawanipur village of Haringhata block, Nadia. Award received: ❖ *Krishak Ratna Award* in 2013 by Govt. of West Bengal.

2. Success story

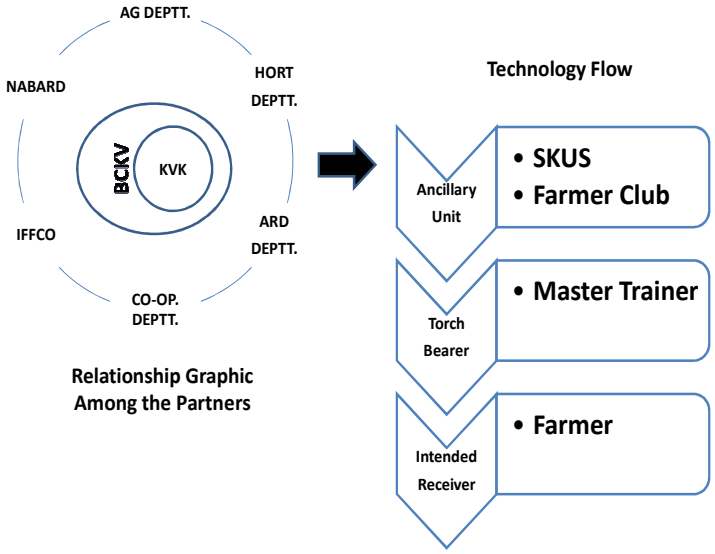
1	Name	Nimai Mondal
2	Father's Name	Sri. Gopal Chandra Mondal
3	Date of Birth	07.12.1979
4	Full address (with Tel. No. & Fax No. and E-mail address if any	Vill.- Gopalpur P.O. – Itabaria P.S. Hanskhali Block- Hanskhali, District- Nadia, Pin-741151 Mobile- 9434954259/9434140451 Email id: krishakratna@gmail.com
5	Educational Qualifications	Passed higher secondary (science) ITI wireman with computer hardware diploma, trained on bio-fertilizer & bio-pesticides VIB-Nimpith, 24 Parganas (S).
6	Experience(in brief)	Inspired by my father, School teachers, I have been heavily engaged in producing bio-fertilizer, organic manure since16

		years. I have also established Farmers Club wherefrom I have experienced use of bio-fertilizer upon paddy/wheat & Vegetable cultivation. Now I am fighting against use of chemical fertilizer and also engaged in preparing Paddy& Moog (pulse) seeds which are marketed throughout our locality with the help of Farmers Club.
7	Present Position	Presently I have been established as successful farmer and capable of purchasing perishable produces from those cultivators who are producing under the technical guidance of KVK, Nadia practically equipped by the help & assistance committed my ability which enriched me to gather such cultivated produces from them and by the help of organizations continuing selling the paddy seeds moog seeds to allover the District and State of West Bengal.
8	Outstanding contribution in the field of Agriculture and award received	Sri. Mondal in association with 53 farmers is following organic farming 50 acres of land. He is also maintaining pure pig breed **Ghoogroo** with his own effort. He is also taking steps in expanding the area under SRI, Azolla production and minimum use of irrigation water. Award received: ❖ *Best farmer award* from Nadia KVK, BCKV in 2014. ❖ *Krishak Ratna award* from Govt. of West Bengal. ❖ *Innovative farmer award* from Department of Agriculture, Govt. of West Bengal.

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
	199	662	5	Nil
Total	**199**	**662**	**5**	**Nil**

3.12. Activities of rain water harvesting structure and micro irrigation system: Not Applicable

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
Seminar, Farmers' Scientists Interaction, Exhibition, Crop competition, Quiz competition, Field visit and Training	7	689	AICRPs on Potato, Tuber crops, Floriculture, Tropical and sub tropical fruits, IFS, Vegetables, Medicinal plants, Nematode, Water management and different wings of the University displayed their technologies.

3.14. RAWE programme - is KVK involved?

No of student/ARS trained	No of days stayed
5	88
100	02

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
5.12.15	Dr. Tapas Kumar Mondal, MP, Ranaghat	World Soil Day Celebration
	Prof. Asit Kumar Chakrobarty, VC, BCKV	
	Prof. T. K. Mondal, DEE, BCKV	
	Smt. Mamata Thakur, MP, Bangaon	
	Sri. Bani Kumar Roy, Sabhadipati, Nadia Zilla Prasid	
	Dr. Ramendra Nath Biswas, MLA, Kalyani	
	Sri. Vikas Biswas, DDA(Admin.), Nadia	
	Sri. Swapan Kumar Kundu, SDO, Kalyani	
15.1.16	Sri. Purnendu Basu, MIC, Agriculture, Government of West Bengal	Rabi Kisan Sammelan cum Technology Week Celebration
	Dr. Tapas Kumar Mondal, MP, Ranaghat	
	Prof. Asit Kumar Chakrobarty, VC, BCKV	
	Prof. T. K. Mondal, DEE, BCKV	
	Smt. Mamata Thakur, MP, Bangaon	
	Sri. Bani Kumar Roy, Sabhadipati, Nadia Zilla Prasid	
	Dr. Ramendra Nath Biswas, MLA, Kalyani	
	Sri. Animesh Biswas, DDA(Admin.), Nadia	
	Sri. Swapan Kumar Kundu, SDO, Kalyani	

4. IMPACT

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

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

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

4.2 Cases of large scale adoption (Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Seed production of lentil, gram, field pea and mustard	86.0 ha

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

4.4 Details of innovations recorded by the KVK: NA

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

4.5 Details of entrepreneurship development: NA

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

4.6 Any other initiative taken by the KVK

5. LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
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 2015-16 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: NA

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

(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.)
Training	Farmers training		ATMA	10,000.00
Technology Week	Farmers training		NABARD	100000.00
Training	Farmers training		NVI	2,29,032.00
Training	Farmers training		FOCT	5,36,000.00
Training	Capacity building		PPVFRA	80,000.00

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm): NA

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): NA

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.,): NA

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): NA

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)
December	30	180	
January	60	420	
February	150	1050	
March	60	420	
Total	**300**	**2070**	

(For whole of the year)

6.6 Utilization of staff quarters: NA

Whether staff quarters has been completed:
No. of staff quarters:
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
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	
Mustard, ground nut, sesame		7.05		7.04884	0.00116

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	
Lentil, chickpea, field pea, green gram		**5.325**		**5.32494**	**0.00006**

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

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 2015 -16 (Un-audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	90,43,000.00	90,43,000.00	90,36,036.00
2	Traveling allowances	1,00,000.00	1,00,000.00	39,961.00
3	HRD	-	-	-
4	Contingencies	13,50,000.00	13,50,000.00	13,49,290.00
5	TSP	4,00,000.00	4,00,000.00	4,00,482.00
Total (A)		**1,08,93,000.00**	**1,08,93,000.00**	**1,08,25,769.00**
B. Non-Recurring Contingencies				
1		1,20,000.00	1,20,000.00	1,20,000.00
2		30,000.00	30,000.00	-
TOTAL (B)		1,50,000.00	1,50,000.00	1,20,000.00
C. REVOLVING FUND		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		**1,10,43,000.00**	**1,10,43,000.00**	**1,09,45,769.00**

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)
2015-16	2,34,968.00	3,40,110.00	-	5,75,078.00

* 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: NA

7.7 Details of marketing channels created for the SHGs: NA

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 18.03.2015. A group of 50 rural youths (female) participated in the said programme. Honourable Vice – Chancellor of our University, Prof. Asit Chakrobarty, Dean Faculty Horticulture Prof. P.Hazra, Dean Faculty of Agril. Engineering Prof. S.Mukharjee, Dean Faculty of Agriculture Prof. Suprotik Sarkar and Director of Research Prof. A.K.Maiti 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	1	2015-2016	-	ATMA	-
Technology Week	1	2015-16	NABARD		
Training	10	2015-2016	NVI		
Training	8	2015-2016	FOCT		
Training	3	2015-2016	PPVFRA		

8. OTHER INFORMATION

8.1. Prevalent diseases in Livestock/Crops/Fishery: NA

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

8.2. Nehru Yuva Kendra (NYK) Training: Not Applicable

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

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
13.01.2016 10.02.2016 24.02.2016	Dr. K.K. Goswami, PC, Nadia KVK	223	Paddy	2
			Greengram	1
			Redgram	1

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration
	Dr. S.J.Pramanik, SMS, Nadia KVK		Chick Pea	1
			Brinjal	11
			Tomato	1
			Chilli	6
			Pumpkin	6
			Bottle Gourd	3
			Cucumber	3
			Ash Gourd	3
			Ridge Gourd	2
			Bhidi	1
			Dolicos Bean	5
			Beans	2
			Radish	1
			Total	**49**

8.4. SMS Portal

Date of start of functioning of SMS portal								
No. of messages	No. of calls	No. of farmers covered	Types of messages (No.)					
			Crop	Livestock	Weather	Marketing	Awareness	Other
84	-	161598	60	22	02	-	-	-

8.5 Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
9th October, 2015	All the units of the KVK were cleaned and rearranged including the office, computer room, training hall, conference room, farm house, farm Go down, approach road etc. Programme Coordinator, Nadia KVK Scientists and others staff members of the KVK, Prof. Abu Hassan (Deptt. of Fruits & Orchard Management, BCKV), Dr. Benukar Biswas (Associate Professor, AICRP on Water Management, BCKV) attended the programme.

8.6 Observation of National Science day: N.A.

Date of Observation	Activities undertaken

8.7.Programme with Seema Suraksha Bal (BSF): Not Applicable

Title of Programme	Date	No. of participants

8.8 Agriculture Knowledge in rural school:

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Satish Chandra Memorial School, Chakdah, Nadia	15th December, 2015	The scope of agricultural science in higher studies	Projector for slide presentation

8.9. Details of Kharif and Rabi Sammelan (Information should be provided in two separate tables – one for Kharif and another for Rabi Sammelan)

Name of the state	Name of district/KVK	Date on which conducted	Number of participants		Name of public representative	Details of Technology Demonstrated and other programmes organized
			Farmers	Others		
West Bengal	Nadia KVK	13th – 15th January, 2016	649	40	Dr. Tapas Mondal, M.P. Ranaghat, Smt. Mamata Thakur, M.P. Bangoan, Dr. Ramendra Nath Biswas, M.L.A. Kalyani	Seminar, Farmers' Scientists Interaction, Exhibition, Crop competition, Quiz competition, Field visit and Training

8.10. Details of Pradhan Mantri Fasal Bima Yojana programme organized: Due to ensuing state assembly election, the programme could not be organized on stipulated date. It has been fixed to be organized on 8th May, 2016.

Name of the state	Name of district/KVK	Date on which conducted	Number of participants		Name of public representative	Details of awareness created and other programmes organized
			Farmers	Others		

8.11. Contingent crop planning: Not Applicable

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

8.12. 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	360	240	Nil

8.13. Community Radio Station: Not Applicable

Date of establishment:
Amount of fund received year wise:
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 • Agro-climatic 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 • 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)			
B.	Community development broadcasts Please specify the programmes like rural development, educational, health, environment, public service broadcasts, sports etc.			

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

Progressive farmers	300
Innovative farmers	05
Lead farmers	10

8.15 HRD programmes organized by the KVK

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme
National conference on Krishi Vigyan Kendra	25-26th July, 2015	Dr. K.K. Goswami	Programme Coordinator	ICAR, New Delhi
National conference on Krishi Vigyan Kendra	25-26th July, 2015	Dr. S.J. Pramanik	SMS (Seed Science)	ICAR, New Delhi
National conference on Krishi Vigyan Kendra	25-26th July, 2015	Mrs. M. Debnath	SMS (Plant Protection)	ICAR, New Delhi
National conference on Krishi Vigyan Kendra	25-26th July, 2015	Dr. N.K. Tudu	SMS (Animal Science)	ICAR, New Delhi
XXX Annual convention of IAVA and National Symposium on Recent advances in Veterinary Anatomy and their application in the field of Animal Health, Production and Biotechnology	16-18th December , 2015	Dr. N.K. Tudu	SMS (Animal Science)	WBUAFS, Kolkata

8.16. Revenue generation:

Sl. No.	Name of Head	Income(Rs.)	Sponsoring agency
1	Revenue generation	3,40,110.00	Sell proceeds

8.17. 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	10,000.00	-
2	Technology Week	Farmers training	NABARD	100000.00	-
3	Training	Farmers training	NVI	2,29,032.00	-
4	Training	Farmers training	FOCT	5,36,000.00	-
5	Training	Capacity building	PPVFRA	80,000.00	-

8.18. Performance of Automatic Weather Station in KVK: Not Applicable

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

8.19. IPNI Trail (Applicable for KVKs identified under IPNI trial)

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	
Parari	Chakdaha	111	80	191	99	89	188	49.60

Asset created under TSP: 50 nos. of Vanaraja bird units
50 nos. of Black Bengal goat units

Fund received under TSP in 2015-16: 4,00,000.00 lakh

10. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2015-16

(**Applicable for KVKs identified under NICRA): Not Applicable**

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

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	
Rice bean	30.04.2015	0.3 ha	12	300	250	275.0	250	200	225.0	22.22
Sorghum	30.04.2015	0.5 ha	12	300	260	280.0	275	210	242.5	15.46
Maize	30.04.2015	0.3 ha	14	160	125	142.5	140	100	120.0	18.75
N.B. Hybrid	31.07.2015	0.5ha	13	350	275	312.5	300	225	262.5	19.04
Oats	29.11.2015	0.5 ha	17	350	275	312.5	325	245	285.0	9.64
Barseem	29.11.2015	0.3 ha	05	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
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: NA

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	Felicitation	Dinabandu Ghosh	2015	ICAR Research Complex for Eastern Region, Patna	Citation	For contribution in seed production
2	Felicitation	Dipak Mondal	2015	ICAR Research Complex for Eastern Region, Patna	Citation	For contribution in vegetable production
3	Krishak Ratna	Nimai Mondal	2016	SSIAST, Bangalore	25,000.00	For outstanding contribution in organic farming
4	Krishak Ratna	Lakshan Pramanik	2016	SSIAST, Bangalore	25,000.00	For outstanding contribution in organic farming
5	Krishak Ratna	Sukanta Chakraborty	2016	SSIAST, Bangalore	25,000.00	For outstanding contribution in organic farming

13. ANY SIGNIFICANT ACHIEVEMENT OF THE KVK WITH FACTS AND FIGURES AS WELL AS QUALITY PHOTOGRAPH

14. ANY OTHER PROGRAMME ORGANIZED BY KVK NOT COVERED ABOVE