ANNUAL REPORT
2016 – 17

KRISHI VIGYAN KENDRA
BURDWAN

KRISHI VIGYAN KENDRA
Central Research Institute for Jute & Allied Fibres (ICAR)
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1. GENERAL INFORMATION ABOUT THE KVK

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

Name: **KrishiVigyan Kendra, Burdwan**

Address	Telephone		E mail
Bud Bud, Burdwan-713 403. West Bengal	Office - 0343 2513651	Fax - 0343 2513651	kvkburdwan@gmail.com **Web:** www.kvkcrijaf.org.in

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

Name of Host organization: **ICAR-Central Research Institute for Jute and Allied Fibres**

Address	Telephone		E mail
	Office	Fax	
Barrackpore Kolkata- 700 120. West Bengal	033-25356124	033- 25350415	crijaf-wb@nic.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. D. Ghorai (I/C)	033-25772766	09433122515	dipankarghoraikvk@gmail.com

1.4. Year of sanction: 2005 vide order No. 5-24 / 2002 – AE – I, dated April 01, 2005

1.5. Staff Position (as on 1st April, 2017)

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	VACANT						
2	Subject Matter Specialist	Dr. Dipankar Ghorai	I/C PC and SMS	Agriculture	Rs. 67700-208700 Basic: Rs. 78500	26.04.2006	**Permanent**	GEN
3	Subject Matter Specialist	Dr. Golam Ziauddin	SMS	Fisheries	Rs. 67700-208700 Basic: Rs. 78500	28.04.2006	**Permanent**	GEN
4	Subject Matter Specialist	VACANT						
5	Subject Matter Specialist	Dr. Subrata Sarkar	SMS	Horticulture	Rs. 67700-208700 Basic: Rs. 78500	04.05.2006	**Permanent**	GEN
6	Subject Matter Specialist	VACANT						
7	Subject Matter Specialist	Dr. Monica S. Singh	SMS	Agril. Extn.	Rs. 56100-177500 Basic: Rs. 61300	09.07.2012	**Permanent**	GEN
8	Programme Assistant	Mr. Sandipan Garai	Prog. Assistant	Agriculture	Rs. 44900-142400 Basic: Rs. 50500	18.04.2006	**Permanent**	OBC
9	Computer Programmer	Sk Golam Rasul	Prog. Assistant (Computer)	Computer	Rs. 44900-142400 Basic: Rs. 50500	10.04.2006	**Permanent**	GEN
10	Farm Manager	Mr. Soumya Sarathi Kundu	Prog. Assistant (Farm Manager)	Agriculture	Rs. 44900-142400 Basic: Rs. 46200	06.01.2007	**Permanent**	GEN
11	Accountant / Superintendent	VACANT						
12	Stenographer	VACANT						
13.	Driver	Mr. Joydeep Pal	Driver – cum - mechanic	--	Rs. 25500-81100 Basic: Rs. 29600	06.07.2006	**Permanent**	GEN
14.	Driver	Mr. Santi Nath Pal	Driver– cum - mechanic	--	Rs. 25500-81100 Basic: Rs. 29600	10.07.2006	**Permanent**	OBC
15.	Supporting staff	Mr. Shyamal Bhanja	Supporting staff	Peon	Rs. 19900-63200 Basic: Rs. 26000	25.02.2006	**Permanent**	GEN
16.	Supporting staff	Mr. Anup Das	Supporting staff	Cook	Rs. 19900-63200 Basic: Rs. 26000	01.03.2006	**Permanent**	SC

1.6. Total land with KVK (in ha) : 18 ha

S. No.	Item	Area (ha)
1	Under Buildings	3.5
2.	Under Demonstration Units	2.5
3.	Under Crops	7.0
4.	Orchard/Agro-forestry	2.0
5.	Others (Waste land and Ponds)	3.0

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of building	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					√	552	Under use	ICAR
2.	Farmers Hostel					√	306	Under use	ICAR
3.	Staff Quarters (6)					√	400	Under use	ICAR
4.	Piggery unit								
5	Fencing					√	925 m	Under use	ICAR
6	Rain Water harvesting structure					√	7000	Under use	MGNREGA
7	Threshing floor								
8	Farm godown								
9.	Dairy unit								
10.	Poultry unit								
11.	Goatary unit					√	50	Not (SMS not available since Sept., 2015)	ICAR
12.	Mushroom Lab								
13.	Mushroom production unit								
14.	Greenhouse					√	1008	Not (polythene cover torn out since April, 2015)	RKVY
15.	Soil test Lab					√	Instrumental support	Under use	ICAR
16	Others								
17	Feed preparation Unit					√	Instrumental support	Under use	ATMA
18	Integrated farming system					√	6000	Under use	ICAR
19	Vermicompost unit					√	60	Under use	ATMA
20	Portable carp hatchery					√	30	Under use	ICAR
21	Deep tube well					√	Depth 80 ft.	Under use	ICAR

* 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 (2016-2017)	Present status
TATA SUMO WB 40 C 9883	01.04.1999	---	21348 km	In working condition
Tractor WB 39 3472	01.04.1999	---	154 hrs	In working condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Flame photometer	2006-07	29813.00	Out of order	ICAR
Spectrophotometer	2006-07	46283.00	Out of order	ICAR
Shaker	2006-07	20756.00	In working condition	ICAR
Hot air oven	2006-07	5344.00	In working condition	ICAR
Hot plate	2007-08	14000.00	Out of order	ICAR
Glass distillation unit	2007-08	28000.00	In working condition	ICAR
Conductivity bridge	2007-08	10000.00	In working condition	ICAR
pH meter	2007-08	9563.00	Out of order	ICAR
Electronic balance	2007-08	12375.00	In working condition	ICAR
Grinder	2007-08	19500.00	In working condition	ICAR
Kjeldahl N analyser	2008-09	250474.00	In working condition	ICAR
Atomic absorption spectrophotometer	2012-13	944832.00	In working condition	ICAR
Mridaparikshak	2015-16	117450.00	Out of order for most elements	
b. Farm machinery				
Tractor	01.04.1999	--	In working condition	ICAR
Power reaper	2011-12	85476.00	In working condition	ICAR
c. AV Aids				
LCD projector	2008-09	109000.00	Out of order	ICAR
Computer with accessories (2 Nos.)	2009 -10	49920.00	In working condition	ICAR
LCD TV	2010-11	13110.00	In working condition	ICAR
Digital Camera	2010-11	14790.00	In working condition	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
CRIJAF Nail weeder	2012-13	3400.00	In working condition	ICAR
Brush cutter	2011-12	22360.00	In working condition	ICAR
Seed drill	2011-12	66500.00	In working condition	ICAR
Rotovator	2011-12	107120.00	In working condition	ICAR
Sprayer	2011-12	7300.00	In working condition	ICAR
Paddy thresher	2011-12	12000.00	In working condition	ICAR
Castrator for goat	2013-14	4000.00	In working condition	ATMA

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	No. of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	27/09/ 2016	25	• Importance on village seed production must be given • Fiber quality should be assessed for OFT on jute retting • Seed treatment with biocontrol agent should be done instead of spraying • Selection of mustard varieties for OFT should be recommended by ICAR/University or state department • Yellow vein mosaic virus resistant varieties (Parbhani Kranti) should be taken for OFT on okra • Complete package of practice for any technology should be given to line departments • Utilization of jute retting ponds for fisheries should be taken up • Training on fish cooperative formation should be given by KVK • Training in diversified use of jute should be given • Study should be done on problems faced in implementing cluster demonstration • Training of farmers should be done through master trainer farmers • Keeping in view the milling difficulties faced by farmers who are producing fine rice, CIAE Bhopal should be contacted for suitable milling machine. • Animal health camps should be conducted in collaboration with line departments, ICAR institutes like IVRI, NDRI • Climate resilient rice varieties should be demonstrated in the western belt of the district.	Village seed production in 50 ha area taken up during rabi 2016-17. Will be taken up during 2017 Seed treatment with trichoderma and pseudomonas have been done in CFLD on greengram and lentil Pusa mustard 26 have been demonstrated Parbhani Kranti have been used in OFT Complete package of practice for jute, paddy, mustard and okra given to line department. Pangus cultivation in jute retting pond taken up in Kalna Done in training funded by NFDB 15 day training for tribal women have been done Will be taken up after completion of two years in 2017 Training on groundnut cultivation, SRI have been done by master trainers Three health camps in collaboration with Galsi I block have been done Will be done in kharif 2017	NA

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2016-17)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice production system Dairy –poultry production system Poultry Goatery Duckery Fishery Rice – potato-fodder- livestock production system Rice –vegetable-Rice production system Jute-rice production system Fish-duck-banana production system
2	Agro-climatic Zone	**1. New Alluvium** Average annual rainfall 1300-1600 mm, Soil type- sandy loam, clay and clay loam, Soil depth 4-6 ft with medium to good water holding capacity, **Neutral to acidic soil with good fertility.** **2. Old Alluvium** Average annual rainfall 1300-1500 mm, Soil type- sandy loam and clay loam Soil depth 4-6 ft with medium to good water holding capacity **Neutral to acidic soil with good fertility** **3. Red and Lateritic** Average annual rainfall 1100-1400 mm, Soil type- sandy loam, coarse in texture Undulating land with low soil depth, sometimes hard layer present in sub surface **Medium to highly acidic soil**
3	Agro ecological situation	**Agro ecological sub region 12.3 under the AES 12.0 (Eastern Plateau)** I Chhotonagpur Plateau and Garhjat hills, hot dry sub humid ecosystem with red & laterite soils and LGP 150-180 days covering the blocks of Durgapur & Asansol. Main crops are, paddy, mustard, vegetables, pulse etc. The area covers 186154 ha II. Moist and sub humid ecosystem with alluvial soil with LGP of 180-200 days covering the blocks of Burdwan (N), Burdwan (S), Kalna & Katwa, Main crops paddy, mustard, **sesame, potato, jute, vegetables etc. The area covers 517532 ha**
4	Soil type	**1.Gangetic alluvial – 206423 ha** Soil order is entisols. Sandy loam to clay loam, fine in texture, slightly acidic to neutral in reaction. Rich in potash and medium to rich in available plant nutrients. **2. Vindhya alluvial – 311000 ha** Soil order is entisol Sandy loam to clay loam, fine to moderate coarse in texture, acidic to neutral in reaction. **3. Red and Lateritic – 186054 ha** Soil orders are mainly alfisol and ultisol. Coarse gritty soil blended with rock fragment, mainly acidic in nature, reddish in color due to high level of iron, low in nitrogen, calcium, phosphate and other plant nutrient.
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Aman paddy – 32.73 Boro paddy – 26.95 Wheat – 21.99 Pulses – 8.80 Oilseeds – 10.01 Jute & other fibres ** - 18.7 lakh bales

		Potato – 212.49
6	Mean yearly temperature, rainfall, humidity of the district	Mean yearly temperature: Max – 31, Min – 18 Relative humidity : 76 Total rainfall: 1136 mm
7	Production of major livestock products like milk, egg, meat etc.	Milk : 464080 tonnes, 280 kg/year Egg: 2672.40 lakh egg, 85 no. eggs/year Meat : 4000 MT

2.b. Details of operational area / villages (2016-17)

S.N	Taluk	Block	Village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Durgapur	Kanksa, Andal	Keten , Palashboni, sundrariya Moira	Paddy, potato, mustard, sesame, lentil, vegetable, cattle, poultry, duck, goat, pig fish Kharif paddy, wheat, mustard, brinjal, cattle, buffalo, goat and poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Marginal soil • Limited water resources for irrigation • Indiscriminate and inappropriate use of chemical fertilizer **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option**	• Integration of good agronomic practices • Providing quality seeds/planting materials • Diversification of land use • Soil health management like organic farming etc. • Livestock productivity improvement and health care • Efficient utilization of water bodies • Entrepreneurship development
2	Durgapur	Galsi-I	Jaguli para , Silla, Ramgopalpur, Atpara, Raipur, GoligramKondaipur Manikbazar-Jharul, Nurkona Nabakhanda	Kharif Paddy, boro paddy, mustard, fodder, cattle, poultry, duck, goat, fish	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed materials • High cost involvement for major crops • Indiscriminate and inappropriate use of chemical fertilizers • Low input of organics & biofertiliser	• Providing quality seeds/planting material • Diversification of land use • Entrepreneurship development • Organic farming • Health care • Improvement of women led vocations • Popularization of balanced feeding practices
3.	Burdwan North	Galsi-II	Garamba, Pursora	Aus paddy, kharif paddy, jute, potato, mustard, vegetable cattle,		

				poultry, Goat, broiler farming, fish	**Lesser extent of crop diversification** **Low productivity of livestock & poultry** **Poor feed resources** ***Socio-economic*** • Lack of credit facilities • Inadequate house hold income generation	
4.		Aushgram-I	Dignagar, Woyarishpur	Kharif paddy, Potato, lentil, mustard, til, fodder, cattle, goat, poultry, duck, fish	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Poor soil health • Limited water resources for irrigation • Indiscriminate and inappropriate use of chemical fertilizer **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option**	i. Integration of good agronomic practices ii.Providing quality seeds/planting materials iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. technology showcasing
5.	Kalna	Kalna	Bhagnapara, Kalna, Durgapur, Nandai	Paddy, jute, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides **Inadequate**	Integration of good agronomic practices ii.Production of quality seeds/planting materials in PPP mode iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization

					descriptive/prolific breed of livestock **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option** **Less of post harvest operation**	of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology
6.		Purbasthali-I	Kuricha	Paddy, jute, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides • Very low ground water table **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** • Lack of awareness regarding good agronomic /husbandry practices • Very restricted livelihood option • Less of post harvest operation	Integration of good agronomic practices ii. Production of quality seeds/planting materials in PPP mode iii. Diversification of land use iv. Restoration of soil health through organic manuring. v. Livestock productivity improvement and health care vi. Efficient utilization of water bodies vii. Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology of jute and other crops
7		Memari-I & II	Satchachia, Debipur, Khanro,	Paddy, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate	Integration of good agronomic practices ii. Production of quality seeds/planting materials in PPP mode iii. Diversification of land use iv. Restoration of soil health through organic manuring.

					and inappropriate use of chemical fertilizer/ pesticides **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** • Lack of credit facilities • Lack of awareness regarding good agronomic /husbandry practices • Very restricted livelihood option • Less of post harvest operation	v. Livestock productivity improvement and health care vi. Efficient utilization of water bodies vii. Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology
8		Montheswar	Bhelia, Bheti	Paddy, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option** **Less of post harvest operation**	Integration of good agronomic practices ii.Production of quality seeds/planting materials in PPP mode iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology

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
Kasba	Galsi-I	• Training programmes on different aspects of Horticulture • OFT on varietal trial on cauliflower FLD on improved variety of tomato • OFT and FLD of kharif and rabi onion • Awareness camp on horticulture and agriculture • field day and exposure visit of farmers
Bamunia	Memari -II	• PRA data collection • Awareness camp, informal discussion
Barmuria	Galsi- II	• PRA data collection • Training, informal discussion
Kuricha	Purbasthali-I	• On farm trial and demonstration on improved production technology on jute • Integrated farming system involving jute has been done • On farm trial and demonstration on improved production technology of paddy • Culmination of improved jute production technology through OFT, FLD, field day and exposure visit of farmers • Formation of farmers club • Awareness camp on family nutrition
Debipur	Memari-I	• Skill development programme of tribal farmers and farm women • Technology demonstration in the theme of region specific mineral mixture supplementation to deshi cow • Technology assessment through OFT in nutrient management of duck • Animal health camp and awareness camp. • Diagnostic field visit of SMSs • Technology guidance through Farmers, portal
Mirjapur	Kalna I	• Formation of farmers club • Awarness Camp • FLD and OFT • Diagnostic field visit of SMSs • Technology guidance through Farmers, portal • Training to farmers and Farm women

2. d. SansadAdarsh Gram Yojona

i) Name of the village under Sansad Adarsha Gram Yojona: Siddhabari, Salanpur block

ii) Contribution of KVK in the programme:

- Skill development programme of tribal farmers and farm women
- Technology demonstration in the theme of region specific mineral mixture supplementation to deshi cow
- Animal health camp and awareness camp.
- Cage fishery culture in collaboration with CIFRI
- Diagnostic field visit of SMSs
- Technology guidance through Farmers, portal
- Jai Kisan Jai Vigyan Diwas celebration

2.1 Priority thrust areas

S. No	Thrust area
1.	Integration of good agronomic practices for cultivation of field and vegetable crops for vertical agricultural growth
2.	Production of quality seeds/planting materials for major agricultural crops like rice, jute, mustard and vegetable and fruit crops
3.	Diversification of land use through cultivation of vegetables and other horticultural crops
4.	Soil health management through organic farming, balanced and integrated fertilization etc.
5.	Livestock productivity improvement and health care
6.	Efficient utilization of water bodies through composite fish culture and improved management practices
7.	Efficient resource utilization and output maximization through integrated farming system approach
8.	Entrepreneurship development for family income generation
9.	Empowerment of women through post harvest operation
10	Strengthening of animal feed resources through fodder production/ quality fodder seed production
11	Use of ICT in agriculture in area of climate based agro advice, disease diagnosis, SMS service

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievement of mandatory activities by KVK during 2016-17

OFT				FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	5	30	36	15	20	750	968

Training				Extension activities			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
70	74	2450	3165	350	4080	1836	22416

Seed production (q)		Planting material (Nos.)	
Target	Achievement	Target	Achievement
200	240	50000	65000

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	**Evaluation of effectiveness different retting methodologies on yield and economics of jute**
2.	Problem diagnosed	Low return for jute fibre pertaining to improper retting
3.	Details of technologies selected for assessment/refinement	**Farmers' practice**: Conventional retting **Technology – 1 to be assessed:** Steeping of jute jak with sand bag **Technology – 2 to be assessed:** TO1 + CRIJAF Sona
4.	Source of Technology	ICAR-CRIJAF, barrackpore
5.	Production system and thematic area	Jute based production system, Post harvest management
6.	Performance of the Technology with performance indicators	Steeping of jute jak with sand bag and application of CRIJAF SONA was best in terms of physical quality of jute fibre (luster, fineness and smoothness) and was most remunerative apart from producing significantly higher fibre yield as compared to conventional retting. Also the time required for retting was 6 days less than conventional retting. Steeping of jute jak with sand bag also produced good quality fibre (better than conventional retting) but time requirement was at par with conventional retting.
7.	Final recommendation for micro level situation	Farmers should use CRIJAF SONA in retting with sand bag. In case CRIJAF SONA is not available in the local market, farmers should steep jute jak with sand bag.
8.	Constraints identified and feedback for research	Retting in community tank where many farmers are using the same tank for retting, many farmers go for conventional retting (steeping jute jak with mud/waterhyacinth) causing damage to those using CRIJAF SONA. Also, farmers find it cumbersome to fill bags with sand/mud to weigh down jute jaks. The feasibility of using polythene over the jak and steeping with mud can be explored.
9.	Process of farmers participation and their reaction	Demonstration, group discussion and field day

Thematic area: Post harvest management

Problem definition: Low return for jute fibre pertaining to improper retting

Technology assessed: Retting using microbial consortium.

Table:

Technology option	No. of trials	Yield component Days for retting (in days)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmers' practice: Conventional retting	7	17.3	28.2	65500	78960	13460	1.21
TO1: Steeping of jute jak with sand bag		16.6	29.1	66500	87300	20800	1.31
TO2: TO1 + CRIJAF Sona		11.2	31.2	67700	99840	32140	1.47
LSD at 5%			1.01				

Results:

Productivity of jute fibre in FP and TO1 were at par while it was significantly higher in TO2. This is ascribed to the less time taken in retting with CRIJAF-SONA. Also the selling price of jute varied from Rs. 2800/- in FP to Rs. 3000/- in TO1 to Rs. 3200/- in TO2.

OFT-2

1.	Title of On farm Trial	**Assessment of different control measures for fusarium wilt of lentil under medium upland situation of Burdwan district**
2.	Problem diagnosed	Low yield of lentil due to infestation of fusarium wilt
3.	Details of technologies selected for assessment/refinement	**Farmers' practice:** Carbendazim/ Mancozeb spray **TO1:** Chemical control with chlorothalonil 75% w.p. + thiophanate methyl 70% w.p. **TO2:** Bio control with trichoderma viride and pseudomonas 16luorescence (Spraying of mixture of both 3 times) **TO3:** Integrated control (basal soil application of trichoderma and pseudomonas and chemical control)
4.	Source of Technology	ICAR-IIPR, Kanpur
5.	Production system and thematic area	Rice based production system, Disease management
6.	Performance of the Technology with performance indicators	Integrated control gave the best result and was significantly higher than all other technology options. TO1 and TO2 were at par and was significantly higher than FP.
7.	Final recommendation for micro level situation	Farmers should go for integrated control for fusarium wilt in lentil
8.	Constraints identified and feedback for research	Although integrated control is giving better result as compared to other technology options, still fair amount of disease incidence occur which may be ascribed to the acidity in the soil. As such acidity tolerant lentil varieties are nedded.
9.	Process of farmers participation and their reaction	Demonstration, group discussion and field day

Thematic area: Post harvest management

Problem definition: Low return for jute fibre pertaining to improper retting

Technology assessed: Retting using microbial consortium.

Table 2:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	No. of pods/plant	Test wt. (1000 grain wt.)						
Farmers' practice: Carbendazim/ Mancozeb spray		30.4	23.2	21.3	15.4	7.6	13150	28880	15730	2.20
TO1: Chemical control with chlorothalonil 75% w.p. + thiophanate methyl 70% w.p.		31.2	25.7	22.2	9.5	8.1	13450	30780	17330	2.29
TO2: Bio control with trichoderma viride and pseudomonas 17luorescence (Spraying of mixture of both 3 times)		30.9	26.3	21.9	8.2	8.0	13560	30400	16840	2.24
TO3: Integrated control (basal soil application of trichoderma and pseudomonas and chemical control)		32.1	27.9	23.4	6.5	9.1	14100	34580	20480	2.45
LSD at 5%		NS	0.84	0.37	1.62	0.67				

Results:

Result indicated that integrated control of fusarium wilt through basal application of trichoderma and pseudomonas with chemical control was significantly more effective in terms of all yield attributing characters as well as yield. Sole control of the disease through chemical of bio agents were found at par while controlling through carbendazim/mancozeb was least effective.

OFT-3

1.	Title of On farm Trial	**Assessment of effectiveness of split application of fertilisers on paddy productivity through SRI (*kharif)* under medium upland situation of Burdwan district**
2.	Problem diagnose	Low nutrient use efficiency as a result of single or double split application of fertilisers
3.	Details of technologies selected for assessment/refinement	**Farmers' practice:** (SRI with 100:50:50 N, P and K with N in two splits, P and K as basal) **Technology – 1 (T1)**: SRI + 100: 50: 50 N,P and K (N in two equal splits as basal and at maximum tillering; P as basal and K in two splits at basal and booting) **Technology – 2 (T2)**: SRI + 100:50:50 N,P and K (N in three splits as basal, maximum tillering and booting; entire P as basal and K in two splits as basal and at booting) **Technology – 3 (T3)**: SRI + 100:50:50 N,P and K (N in four splits as basal, maximum tillering, internode elongation and booting; entire P as basal and K in three splits as basal, maximum tillering and at booting)
4.	Source of Technology	CRRI, Cuttuck
5.	Production system and thematic area	Rice based production system; Technology
6.	Performance of the Technology with performance indicators	**Results indicated that T3 and T2 resulted at par productivity which was significantly higher in comparison to T1**
7.	Final recommendation for micro level situation	Farmers should apply nitrogen in 3-4 splits and potassium in 2 splits in SRI
8.	Constraints identified and feedback for research	Timely availability of labour is the primary constraint.
9.	Process of farmers participation and their reaction	Training and awareness; Farmers were highly satisfied with performance of improved cultivars

Thematic area: Technology
Problem definition: Low nutrient use efficiency as a result of single or double split application of fertilisers
Technology assessed: Split application of fertilisers

Table 1A: Results

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height (cm)	No. of effective tillers/hill	Panicle 1000 grain wt (gm)					
FP	5	90.4	11.6	19.4	55.2	42500	74520	32020	1.75
TO1		100.5	13.8	20.2	58.5	42750	78975	36225	1.85
TO2		102.3	15.7	21.1	65.5	43000	88425	45425	2.06
TO3		103.4	15.6	21.3	67.2	43250	90720	47470	2.10
LSD at 5%		ns	0.52	0.42	1.23				

- Cost of production was taken to be varying only for additional labour
- Selling price of paddy was taken at Rs. 1250/qtl

Results:

The on farm trial indicated that application of nitrogen in 3-4 splits and potassium in 2 splits resulted in significantly higher produce of paddy in comparison to application of nitrogen in two splits and potassium in single split.

OFT -4

1.	Title of On farm Trial	Varietal evaluation of okra
2.	Problem diagnosed	Low yield of the existing variety particularly due to high incidence of yellow vein mosaic virus.
3.	Details of technologies selected for assessment/refinement	FP: Panchsira / Satsira T1: SVOK0001 T2: Parbhani Kranti T3: BBX-09
4.	Source of Technology	PAU
5.	Production system and thematic area	Irrigated Vegetable based. Varietal evaluation
6.	Performance of the Technology with performance indicators	Crop in the field, Result awaited
7.	Final recommendation for micro level situation	Crop in the field, Result awaited
8.	Constraints identified and feedback for research	Crop in the field, Result awaited
9.	Process of farmers participation and their reaction	Training and demonstration. Crop in the field, Result and feedback awaited

Thematic area: Varietal evaluation

Problem definition: Low yield of the existing variety particularly due to high incidence of yellow vein mosaic virus.

Technology assessed: T1: SVOK0001, T2: Parbhani Kranti and T3: BBX-09

Table3:

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.)						
FP: Panchsira / Satsira	7	Result awaited. Crop in the field.								
T1: SVOK0001										
T2: Parbhani Kranti										
T3: BBX-09										

OFT-5

1.	Title of On farm Trial	**Effect of culture of stunted fingerling different time regime at IMC on fish productivity under pond ecosystem of Burdwan**
2.	Problem diagnosed	Poor fish productivity in domestic small and medium sized ponds is due to stocking of fingerling at different times and duration.
3.	Details of technologies selected for assessment/refinement	**Farmers' practice :** Stocking fingerling (IMC) @ density 7500 nos. fish/ha at late rainy season. (Duration- 200 days) **Production Technology – 1 to be assessed:** Stocking fingerling (IMC) @ density 7500 nos. fish/ha at start of rainy season. (Duration- 200 days) **Production Technology – 2 to be assessed:** Stocking fingerling (IMC) @ density 7500 nos. fish/ha at before early rainy season. (Duration- 200 days)
4	Source of Technology	Bangladesh Agricultural University
5.	Production system and thematic area	Extensive fish based production system. Stocking management.
6.	Performance of the Technology with performance indicators	Production technology option 2 appears to be more productive as stocking time has a significant impact on the length and weight of IMC. High production of IMC stocked early in the summer month attribute to good growth of plankton and high metabolic rate of fishes.
7.	Final recommendation for micro level situation	Large size fingerling with stocking at early rainy season
8.	Constraints identified and feedback for research	Nil
9.	Process of farmers participation and their reaction	Labour, part of inputs required.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Fish	Medium or small sized domestic water bodies	Poor fish productivity in domestic small and medium sized ponds is due to stocking of fingerling at different times and duration.	Effect of culture of stunted fingerling different duration at IMC on fish productivity under pond ecosystem of Burdwan	7	Time of stocking fish fingerling	Yield performance Economic benefits	-	Early Stocking time of fish seed is very much economically beneficial for fish farmers.	Farmers are made aware of the early stocking time in fish culture	No	NA

13	14	15	16
Technology options	**Production per unit area of pond/ annum (qt/ha)**	**Net Return in Rs. Ha^{-1}**	**B:C Ratio (Gross return : cost)**
Farmers' practice : Stocking fingerling (IMC) @ density 7500 nos. fish/ha at late rainy season. (Duration- 200 days)	10.03	23549	1.25
Production Technology – 1 to be assessed: Stocking fingerling (IMC) @ density 7500 nos. fish/ha at start of rainy season. (Duration- 200 days)	15.61	45894	1.48
Production Technology – 2 to be assessed: Stocking fingerling (IMC) @ density 7500 nos. fish/ha at before early rainy season. (Duration- 200 days)	23.03	97267	1.94

3.2 Achievements of Frontline Demonstrations

Details of FLDs conducted during 2016-17

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration		
				Proposed	Actual	SC/ST	Others	Total
1.	Jute	Improved variety	JRO 204 Local Chk. JRO 524	10	10	17	33	50
2.	Jute	Improved retting		--	1.5	3	7	10
3	Groundnut	Nutrition management	Sulfur and boron nutrition	30	30	22	62	84
4	Mustard	Nutrition management + Improved variety	Sulfur and boron nutrition in Pusa mustard 26	50	53	43	132	175
5	Lentil	Pest management	Integrated disease management	20	20	34	63	97
6	Sesame	Nutrition management + improved variety	Sulfur and boron nutrition in RT 346	50	54	78	203	281
7	Green gram	Varietal	Improved variety of SML - 668	20	21	57	96	153
8	Onion	Introduction in Kharif season	Agrifound Dark Red	3	3	2	20	22
9	Annual Moringa	Improve variety	PKM 1	1	1	4	6	10
10	Brinjal	Improve variety	Bhangar	-	1.5	9	6	15
11	Oat as fodder	Improved agronomic practices	Improved variety and method of sowing Var. JHO-822	1	1		10	10
12	Berseem	Package of demonstration	Improved var. Mascavi	0.7	0.7		10	10
13	Kitchen Garden	Supplementation of diversified vegetables to farm families through kitchen garden	Improved varities with compost	0.4	0.4	20	0	20

14	Sorghum	Improved agronomic practices	Hyb. Sudexchari	-	0.5	1	5	6
15	Maize	Package of demonstration	African Tall	-	0.5	0	5	5
16	Rice bean	Improved agronomic practices	Bidan 2	-	0.3	0	5	5
17	Azolla	Cultivation practice				1	19	20

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					
Jute	Pre kharif	Irrigated	Loamy	230	42	195	Potato	April 02 – 08th, 2016	July 20 – 25, 2016	830 mm	
Jute	Pre kharif	Irrigated	Loamy	194	32	210	Potato	April 02 – April 10, 2016	Aug.1 – Aug. 20, 2016	830 mm	
Groundnut	Kharif and rabi	Irrigated	Sandy loam	270	48	190	Kharif – Groundnut Rabi - Potato	Kharif – June 20 – 30, 2016 Rabi – February 02-08, 2017	Kharif – Sept, 15 -25, 2016	320 mm	
Mustard	Rabi	Irrigated	Clay loam to loam	210	35	185	Paddy	Nov. 5 – 10, 2014	Feb 10 – 12, 2015	Negligible	
Lentil	Rabi	Irrigated	Clay loam to loam	225	36	220	Paddy	Nov. 20 – 24, 2014	Feb. 28 –Mar 4 2015	Negligible	
Sesame	Pre kharif	Irrigated	Clay loam to loam	225	45	220	Fallow	March 20 – 28, 2017	--	Negligible	
Green gram	Pre kharif	Irrigated	Clay loam to loam	180	28	190	Fallow	March 15 – 25, 2017	--	Negligible	

Onion	Kharif	Irrigated	Loam	240	56	190	Vegetables	Jul. 20-25, 2016	Oct. 25, 2016 – Nov.10, 2016	950 mm	
Annual moringa	Year round	Irrigated	Loam	210	50	190	Vegetables	July 10-14, 2016	April 5, 2017	1430 mm	
Brinjal	Rabi	Irrigated	Loam	230	50	200	Vegetables	Aug 10-16, 2016	Dec. 15, 2016 – Feb.10, 2017	Negligible	
Oat as fodder	Rabi 2015	Irrigated	Sandy loam to clay loam	210	50	190	Kharif paddy	1-5 Dec, 16	1st-17-22 Jan, 2017 2nd 15-19 Feb, 2017	Negligible	
Berseem	Rabi, 2015	Irrigated	Sandy loam to clay loam	210	50	180	Kharif paddy	6-11 Dec, 2016	1st-27-29 Jan, 2017 2nd 23-26 Feb, 2017	Negligible	
Kitchen Garden	Year round	Irrigated	Sandy loam to clay loam	210	50	180		23-29 Nov, 2016	--	Negligible	
Azolla	Year round	-					Every week				
Sorghum	Summer and kharif	Irrigated	Sandy loam to clay loam	110	40	40	Potato or fallow	9-03-17 to 15-03-17	Cont..	430 mm	
Maize	Summer and kharif	Irrigated	Sandy loam to clay loam	60	40	20	Potato or fallow	10-03-17- to 20-03-17	Cont..	450 mm	
Rice bean	Summer and kharif	Irrigated	Sandy loam to clay loam	230 – 315	27 – 45	215 – 320	Oat or berseem	13-03-17 to 20-03-17	Cont..	500 mm	

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
Groundnut	Varietal	Improved variety of TG 37A	59	20	18.3	17.2	6.35	48750	91500	42750	1.88	48000	86600	38000	1.79
Mustard	Nutrition management in improved variety	Sulfur and boron nutrition in Pusa Mustard 26	175	53	15.23	12.33	23.7	22550	43157	20607	1.91	23800	53316	29516	2.24
Sesame	Nutrition management in improved variety	Sulfur and boron nutrition	281	54	Crop in the field										
Total			**515**	**127**											

* 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	Disease management	Integrated disease management	97	20	8.02	7.32	9.6	12950	32070	19120	2.48	12750	29280	16530	2.30
Green gram	Varietal	Improved variety	153	21	Crop in the field										
	Total		**250**	**41**											

* 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
Jute	Improved variety	JRO 204 Local Chk. JRO 524	55	10	31.6	28.3	11.66	1. PL. ht. 320 cm 2. BD. 1.36 cm	PL. ht. 312 cm BD. 1.40 cm	65250	97960	32710	1.50	65625	87730	22105	1.34
Jute	Improved retting	CRIJAF SONA retting consortium	10	1.5	30.8	28.8	6.94	Grade: 4-5	Grade: -3	67225	98560	31335	1.47	65625	82080	16455	1.25
Onion	Introduction in Kharif season	Agrifound Dark Red	22	3	197	No existing variety	-	-	-	125000	275000	150000	2.20	-	-	-	-
Moringa	Introduction of Annual moringa	PKM 1	10	1	Nil (No or insignificant fruit set)	No existing variety		-	-								
Brinjal	Improve variety	Bhangar	15	1.5	260	215	20.9	-	-	79000	175000	96000	2.21	74000	143000	69000	1.93
Oat as fodder	Improved agronomic practices	Improved variety and method of sowing Var. JHO-822	10	1	422	396	6.56	Dry matter 14.51 %	Dry matter 13.98 %	10820	20850	10030	1.93	11220	18150	6930	1.62
Berseem	Package of demonstration	Improved var. Mascavi	10	0.7	516	464	11.20	DM-12.3 %	DM-12.1 %	11300	23350	12050	2.07	11000	19480	8480	1.77
Kitchen Garden	Supplementation of diversified vegetables to farm families through kitchen garden		20	0.4	182.70	158.6	15.19	-	-	72000	150800	78800	2.09	64500	109800	45300	1.70
Sorghum	Improved agronomic practices	Hyb. Sudexchari	6	0.5	Cont												
Maize	Package of demonstration	Africal Tall	5	0.5	Cont												

Rice bean	Improved agronomic practices	Bidan 2	5	0.3	Cont												
Azolla	Cultivation practice		20	-	Cont												
TOTAL			**188**	**20.4**													

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																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total																	

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters productivity		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration (,000Kg/ha)	Check (,000Kg/ha)		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Monosex (GIFT) Tilapia		Monosex (GIFT) Tilapia culture	2	10	5	2.0	60	-	-	197500	350000	152500	1.73	91000	140000	49000	1.53
Ornamental fishes																	
Magur (pl.specify)		Deshi magur culture	1	5	4.23	1.0	42.3	-	-	230000	650000	420000	2.82	250000	375000	175000	1.5
Vietnam koi		Improved culture practices of Koi	1	5	3.75	1	37.5	-	-	180000	480000	300000	2.66	135000	200000	65000	1.48
	Total		**4**	**20**													

* 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																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

Women empowerment

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

Farm implements and machinery

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

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

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize (Fodder)	African tall	5	0.5							
Paddy										
Sorghum (Fodder)	Sudexcharai	5	0.5							
Wheat										

Others (pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (pl.specify)										
Total										
Commercial crops										

Cotton										
Coconut										
Others (pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

S. No	Crop	Feed Back
1	Jute (improved variety)	Seed of improved varieties like JRO 204, CO-58 to made available in local market
2	Jute (retting)	CRIJAF SONA should be made available in commercial basis
3	Groundnut	Gypsum is not available. As such cost of cultivation increases
4	Mustard	Pusa Mustard 26 is a very promising variety. Oil percentage is lower than B 9. Need similar variety with high oil percentage
5	Lentil	Although fusarium wilt can be controlled to a fair extent with integrated control, but it still persists. Need to ameliorate soil pH.
6	Sesame	Crop in the field
7	Green gram	Crop in the field
8	Onion	--
9	Annual moringa	The variety is having problem with fruiting
10	Brinjal	--
11	Oat as fodder	Seed should be available in early October
12	Berseem	Seed should be available in early October
13	Kitchen Garden	Through out the year availability of vegetable has reduced the cost of purchasing vegetables from market.
14	Azolla	Continued
15	Sorghum	Crop in the field
16	Maize	Crop in the field
17	Rice bean	Crop in the field
18	Monosex (GIFT) Tilapia culture	--
19	Deshi magur culture	--
20	Improved culture practices of Koi	--

Extension and Training activities under FLD

SL. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
	Improved Jute cultivation	22/05/2016, 25/07/2016, 17/08/2016	3	126	
	Jute retting	03.09.16	2	95	
	Oat and Berseem	17.01.17 at Satgachia	1	10	
	Kitchen garden	02.02.17 at Avirampur	1	15	
	Azolla	08.03.17 at KVK	1	35	
2.	Farmers Training				
	Jute	05.04.16, 10.04.16	3	125	
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2016 and Rabi 2016-17:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Groundnut	TAG 24	17.4 q	- 290 kg/ha	- 380 kg/ha	+160 kg/ha	TG 37 A	59	20	22.5	15.3	18.3	31	25	5.6
2	Mustard	B - 9	11.6	+ 0.8	+ 0.9	-2.4	Pusa Mustard 26; Sulphur and boron nutrition	175	53	16.4	13.6	15.23	--	--	Potential yield of existing variety was less than that achived in demonstration.
3	Lentil	Ranjan	7.3	+0.5	+0.2	-3.7	Moitryee	97	20	11.3	7.1	8.02	--	--	24.8

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Groundnut; Improved variety, TG 37A	48000	86600	38000	1.79	48750	91500	42750	1.88
2	Mustard; PM 26; Sulphur and Boron nutrition	22550	43157	20607	1.91	23800	53316	29516	2.24
3	Lentil; Moitreyee; IPM	12750	29280	16530	2.30	12950	32070	19120	2.48

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
1	Groundnut, TG 37 A	36000	450	50	9000	3250	Household activities	1.3
2	Mustard; PM 26	76000	120	35	--	11750	Household activities	1.1
3	Lentil; Moitreyee	16000	80	40	450	--	Household activities	0.3

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Groundnut; Improved variety of TG 37A with Sulphur and Boron nutrition	Suitable for Groundnut – potato - groundnut	Good variety	Affordable for small and medium farmers	Nil	Acceptable	Need higher yielding variety with comparable productivity
2	Sulphur and Boron nutrition in Mustard (Var. PM 26)	Suitable for Rice-Fallow	Very good variety	Though seed price is bit higher than the commonly practiced one, it is affordable for small and medium farmers	Nil	Very much acceptable for Rice – Mustard cropping sequence	Need shorter duration variety with comparable productivity for Rice-Mustard-Rice sequence
3	Lentil; Moitreyee; IPM	Suitable	Fair	Affordable	Pod no is less	Yes	Better varieties with higher yield required

E. Specific Characteristics of Technology and Performance

Crop	Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Groundnut	Yield	Good	Better than existing variety	Acceptable
Mustard	Yield	Excellent	Improved variety along with S and B nutrition is better than the existing practice	Very much acceptable
Lentil	Control of fusarium wilt	Good	Control of fusarium wilt through application of trichoderma and pseudomonas was better	Acceptable

F. Extension activities under FLD conducted till dates:

Crop	Extension Activities organized	Date and place of activity	Number of farmer attended
Groundnut	Training	03.07.16 at Bharatpur, Galsi - I 07.11.16 at Puratangram, Galsi - I	36 21
	Field visit/Field day	24.09.16, 01.10.16 at Bharatpur 25.09.16 at Puratangram	18
Mustard	Training	08.11.16 at Baghnapara, Kalna 05.11.16 at Bamsore, Bhatar	25 35
	Field visit/Field day	08.02.17 at Bhatar 24.12.16 at Puratangram 23.12.16 at Alutia	45 40 18
Lentil	Training	15.11.16 at Bhatar 12.12.16 at Fatehpur	32 65
	Field visit	24.12.16 at Puratangram 16.01.17 at Fatehpur 08.02.17 at Bamsore 15.02.17 at Kondaipur	45 35 24 20
	Awareness camp	24.12.16 at Puratangram	120
Oat and Berseem	Field Day	17.01.17 at Satgachia	10

Kitchen garden	Fied day	02.02.17 at Avirampur	15
Azolla	Training	08.03.17 at KVK	35

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Groundnut	i) Critical input		170000	
	ii) TA/DA/POL etc. for monitoring		3000	
	iii) Extension Activities (Field day)		2485	
	iv)Publication of literature			
	Total	**210000**	**175485**	**34515**
Mustard	i) Critical input		34020	
	ii) TA/DA/POL etc. for monitoring		8000	
	iii) Extension Activities (Field day)		1919	
	iv)Publication of literature		--	
	Total	**150000**	**43939**	**166061**
Lentil	i) Critical input		100120	
	ii) TA/DA/POL etc. for monitoring		--	
	iii) Extension Activities (Field day)		15000	
	iv)Publication of literature		10000	
	Total	**210000**	**125620**	**84380**

K. List of Farmer under FLD (Crop wise)

a) Groundnut

Name of farmer	Father name	Village	Block	Mobile No.	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Demo yield (q/ha)	Yield of local check (q/ha)	% increase
					Latitude	Longitude								
Prabir Samanta	Abani Samanta	Bharatpur	Galsi-I	7546935176	232412	872636	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	22.5	21.3	5.5
Swapan Maity	Nimai Maity	Bharatpur	Galsi-I	9564834115	232417	872645	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	19.8	18.5	6.7
Mahadeb Porey	Susen Porey	Bharatpur	Galsi-I	9735848917	232420	872638	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	18.9	18.4	2.4
Amit Samanta	Arjun Samanta	Bharatpur	Galsi-I	9732105276	232422	872632	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.4	3
Becharam Tung	Judhisthir Tung	Bharatpur	Galsi-I	9564262927	232414	872630	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.8	4.3
Samir Samanta	Abani Samanta	Bharatpur	Galsi-I	8513949592	232425	872639	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.3	3.3
Bikas Jana	Ashok Jana	Bharatpur	Galsi-I	9733155503	232412	872641	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.3	3.5
Anil Samanta	Rambistu Samanta	Bharatpur	Galsi-I	8001368131	232420	872637	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.3	16.3	5.6
Nitish Samanta	Abani Samanta	Bharatpur	Galsi-I	9749170089	232421	872635	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.7	4.5
Ranjit Jana	Karuna Jana	Bharatpur	Galsi-I	8647671840	232417	872643	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	20.6	19.2	7.6
Sawapan Tung	Judhisthir Tung	Bharatpur	Galsi-I	8535905668	232422	872644	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.0	5.6
Bishe Majhi	Harisadhan Majhi	Bharatpur	Galsi-I	8145475602	232415	872641	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	20.1	18.3	9.8
Ashok Majhi	Harisadhan Majhi	Bharatpur	Galsi-I	9547405018	232423	872646	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	22.5	20.2	11.2
Susen Porey	Balai Porey	Bharatpur	Galsi-I	9732262966	232421	872633	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	22.5	20.5	9.8
Kartick Bagdi	Haren Bagdi	Bharatpur	Galsi-I	9609558801	232416	872634	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	18.8	17.4	7.6

Rabindra Porey	Ranjit Porey	Bharatpur	Galsi-I	9609071162	232425	872641	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	21.9	20.1	8.7
Subrata Porel	Sushanta Porel	Bharatpur	Galsi-I	9134732750	232415	872641	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	21.5	19.4	10.6
Sumanta Porel	Sushanta Porel	Bharatpur	Galsi-I	9609293907	232419	872637	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	19.9	18.3	8.9
Raju Maity	Balai Maity	Bharatpur	Galsi-I	7865070285	232424	872642	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	22.3	19.9	12.3
Bijay Sarkar	Rajen Sarkar	Bharatpur	Galsi-I	9609558801	232420	872644	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	19.6	18.3	7.3
Haren Bagdi	Bhabani Bagdi	Bharatpur	Galsi-I	9609637607	232422	872645	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.7	4.5
Ashis Maity	Raju Maity	Bharatpur	Galsi-I	8337817793	232421	872646	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.6	5.5
Uday Porel	Tapan Porel	Bharatpur	Galsi-I	8337817793	232417	872632	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	18.8	17.4	7.8
Debu Bagdi	Arun Bagdi	Bharatpur	Galsi-I	9153219067	232415	872635	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.5	6
Biswajit Maity	Tapan Maity	Bharatpur	Galsi-I	8101246489	232421	872644	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.1	4.6
Swapan Samata	Panchanan Samanta	Bharatpur	Galsi-I		232414	872637	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	19.8	18.5	6.9
Batul Maity	Shankar Maity	Bharatpur	Galsi-I	9564834115	232425	872646	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.1	4.5
Bappaditya Chowdhury	Ganesh Chowdhury	Bharatpur	Galsi-I	9735894347	232417	872646	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.3	3.7
Tarun Bera	Ganesh Bera	Bharatpur	Galsi-I	7364867687	232420	872644	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.3	15.7	3.3
Prabhat Sarkar	Prafulla Sarkar	Bharatpur	Galsi-I		232423	872631	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.1	4.7
Ratan Pramanik	Santosh Pramanik	Bharatpur	Galsi-I	9775718836	232424	872633	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	17.4	16.4	6.3
Rabi Sarkar	Rasik Sarkar	Bharatpur	Galsi-I		232415	872634	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	18.4	17.2	7.2
Jatai Porey	Ramapati Porey	Bharatpur	Galsi-I	9564661815	232415	872630	Y	25-40-70-30 NPKS	Improved variety	TG 37A	120 kg / ha	19.1	18.1	5.6
Shyampati Chowdhury	Bhora Chowdhury	Boro Mana	Kanksa	7407717138	232508	872402	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	20.2	18.5	8.9
Bikram Chowdhury	Shyampati Chowdhury	Boro Mana	Kanksa	7407717138	232538	872422	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.1	16.8	7.8

Munna Chowdhury	Bhora Chowdhury	Boro Mana	Kanksa	9547531268	232520	872410	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.7	18.6	0.3
Bhora Chowdhury	Rupa Chowdhury	Boro Mana	Kanksa	9547531268	232526	872414	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	19.4	17.9	8.2
Hiralal Shaw	Ramjanam Shaw	Boro Mana	Kanksa	9932134215	232520	872430	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.8	16.6	7
Ashok Chowdhury	Ramratan Chowdhury	Boro Mana	Kanksa		232538	872422	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.7	17.3	8
Amal Manna	Rakhal Manna	Boro Mana	Kanksa		232544	872415	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	19.6	17.9	9.4
Bhala Chowdhury	Mahendra Chowdhury	Boro Mana	Kanksa	9091418085	232515	872430	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.4	16.4	6.3
Dharmendra Chowdhury	Shyampati Chowdhury	Boro Mana	Kanksa	7548933650	232517	872415	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	16.5	15.8	4.5
Srikumar Chowdhury	Jiten Chowdhury	Boro Mana	Kanksa	8972433179	232520	872420	Y	22-40-50-40 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.3	3.9
Dibyendu Sarkar	Prabir Sarkar	Bharatpur	Galsi-I	7865070199	232424	872635	Y	25-40-70-40 NPKS	Improved variety	TG 37A	120 kg / ha	17	16.2	4.9
Liyakat Mondal	Rahim Mondal	Puratan Gram	Galsi-I	9735868600	231533	873632	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	15.6	15.0	4.3
Nurul Hooda	Sk Momin	Puratan Gram	Galsi-I	9933646634	231534	873635	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.6	17.3	7.6
Chowdhury Abul Hossain	Chowdhury Amirul Haque	Puratan Gram	Galsi-I	9609688274	231535	873637	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.8	17.0	4.5
Sk Sadik	Sk Idrish	Puratan Gram	Galsi-I	8926536774	231525	873615	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.2	17.1	6.4
Mahadeb Bagdi	Gadai Bagdi	Puratan Gram	Galsi-I	7074559396	231526	873617	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.3	16.2	6.7
Jiabul Hooda	Nurul Hooda	Puratan Gram	Galsi-I	9732104133	231527	873620	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.3	7.6
Kamrul Hasan Mallik	Fakir Mallik	Puratan Gram	Galsi-I	9332131629	231524	873620	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	16.5	15.6	5.6
Manik Bagdi	Shankar Bagdi	Puratan Gram	Galsi-I	9091306882	231525	873622	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.5	16.4	6.5
Sobhan Sekh	Israil Sk	Puratan Gram	Galsi-I	9635889196	231526	873625	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.4	17.3	6.3
Munsi Hasibul	Munsi Mojammel	Puratan Gram	Galsi-I	9732236392	231533	873620	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	16.4	15.7	4.4
Bipad Bagdi	Fakir Bagdi	Puratan Gram	Galsi-I		231534	873625	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	15.3	14.8	3.6

Naran Bagdi	Ananda Bagdi	Puratan Gram	Galsi-I	9732373816	231530	873627	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	16.9	16.0	5.4
Borjahan Sk	Badsha Sk	Puratan Gram	Galsi-I	9832747756	231531	873630	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.3	16.1	7.6
Sk Hakim	Sk Alam	Puratan Gram	Galsi-I		231532	873615	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	18.3	17.2	6.5
Sushanta Bagdi	Naran Bagdi	Puratan Gram	Galsi-I	9609688271	231524	873622	Y	30-40-60-40 NPKS	Improved variety	TG 37A	120 kg / ha	17.9	16.6	7.7

b) Crop: Mustard

Name of farmer	Father name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		**Soil testing done (Yes/ No)**	**Recommendations based on soil test value**	**Brief technology intervention**	Variety	Seed quantity used	Demo yield (q/ha)	Yield of local check (q/ha)	% increase
						Latitude	Longitude					H			
Kesam Mondal	Maman Mondal	Gholda	Bhatar	9734228021		232417	874653	No		Boron and Sulphur nutrition	Pusa mustard-26	1 kg	13.90	11.60	19.83
Sk Alauddin	Sk Khalil	Gholda	Bhatar	7319046664		232418	874654	No		Boron and Sulphur nutrition		1 kg	14.60	12.20	19.67
Rijaul Mondal	Jalil Mondal	Gholda	Bhatar	8159958226		232431	874702	No		Boron and Sulphur nutrition		1 kg	13.70	11.80	16.1
Asadul Mondal	Jabbar Mondal	Gholda	Bhatar	9749883194		232434	874709	No		Boron and Sulphur nutrition		1 kg	15.20	12.60	20.63
Mohan Sk	Ahadal Sk	Gholda	Bhatar	9732217145		232437	874707	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.00	12.40	20.97
Manirul Mondal	Kalam Mondal	Gholda	Bhatar	9593559905		232418	874650	No		Boron and Sulphur nutrition		1 kg	14.30	11.90	20.17
Gul Mahamad Mondal	Goni Mondal	Gholda	Bhatar	8967822786		232413	874652	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.50	12.10	19.83
Sk Mahabat	Sk Murai	Gholda	Bhatar	9564682328		232433	874706	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	13.70	12.50	9.6
Sk Nurmahamad	Sk Allarakha	Gholda	Bhatar	9933385820		232432	874702	No		Boron and Sulphur nutrition		1 kg	15.40	12.50	23.2
Sk Haradhan	Sk Mohid	Gholda	Bhatar			232431	874717	No		Boron and Sulphur nutrition		1 kg	14.00	12.10	15.7
Subir Pal	Nikhilswar Pal	Gramdihi	Bhatar	9593464025		232449	874711	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.00	13.20	21.21
Sudip Samanta	Bipataran Samanta	Gramdihi	Bhatar	9476234342		232450	874710	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.20	13.15	23.19

Ashok Ghosh	Ajit Ghosh	Gramdihi	Bhatar	9800112184		232448	874715	No		Boron and Sulphur nutrition		1 kg	15.90	12.90	23.26
Utpal Mazi	Koriram Mazi	Gramdihi	Bhatar	9732375945		232449	874712	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.60	11.90	22.69
Satyanarayan Mazi	Horipada Mazi	Gramdihi	Bhatar			232448	874714	No		Boron and Sulphur nutrition		1 kg	13.70	11.70	17.09
Bimal Hazra	Nishapati Hazra	Gramdihi	Bhatar	9564819556		232451	874710	No		Boron and Sulphur nutrition		1 kg	15.10	12.50	20.8
Dasorathi Ghosh	Monindranath Ghosh	Gramdihi	Bhatar	7431912634		232447	874714	No		Boron and Sulphur nutrition		1 kg	15.60	12.10	28.93
Sagar Ghosh	Bhola Nath Ghosh	Gramdihi	Bhatar	7872788186		232453	874715	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.00	12.90	24.03
Banshidhar Hazra	Amityalal Hazra	Gramdihi	Bhatar	9679641195		232448	874712	No		Boron and Sulphur nutrition		1 kg	14.80	12.90	14.73
Sanat Ghosh	Jitendranath Ghosh	Gramdihi	Bhatar	9593463843		232446	874711	No		Boron and Sulphur nutrition		1 kg	13.90	11.50	20.87
Ahamad Hassain Mondal	Ayub Hassain Mondal	Bamsore	Bhatar	9734288732		232607	875437	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.20	12.60	20.63
Bileswar Ghosh	Bonomali Das	Bijipur	Bhatar	9800364671		231330	873627	No		Boron and Sulphur nutrition		1 kg	16.20	13.10	23.66
Towhid Mallick	Khalil Molick	Bamsore	Bhatar	7557816457		232607	875439	No		Boron and Sulphur nutrition		1 kg	15.80	12.50	26.4
Ohid Mollick	Khalil Molick	Bamsore	Bhatar	7384458209		232601	975435	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.00	12.30	30.08
Safik Mollick	Billal Mollick	Bamsore	Bhatar	7478648832		232603	875438	No		Boron and Sulphur nutrition		1 kg	14.50	11.90	21.85
Sk Raju	Sk Hider	Bamsore	Bhatar	9091460588		232603	875439	No		Boron and Sulphur nutrition		1 kg	15.40	11.60	32.76
Sk mokai	Sk Sovan	Bamsore	Bhatar			232605	875437	No		Boron and Sulphur nutrition		1 kg	14.60	12.60	15.87
Sk Santu	Sk Anawar	Bamsore	Bhatar	9093959119		232604	875438	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.30	11.80	38.14
Sk Mojamel Mondal	Sk Modle Mondal	Bamsore	Bhatar			232608	875435	No		Boron and Sulphur nutrition		1 kg	15.90	13.00	22.31
Sanjay Pal	Santswar Pal	Gramdihi	Bhatar	7797642827		232453	874714	No		Boron and Sulphur nutrition		1 kg	16.00	13.40	19.4
Sk Sariful Azim	Sk Abdul Azim	Alinagar	Bhatar	9635390327		232451	875418	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.50	11.70	23.93
Sk Arju	Sk Moju	Bamsore	Bhatar	9735273168		232602	875439	No		Boron and Sulphur nutrition		1 kg	13.90	12.50	11.2
Dilip Pal	Direndranath Pal	Natungram	Bhatar	9678005260		233624	880814	No		Boron and Sulphur nutrition		1 kg	15.30	12.80	19.53
Sunil Mazumdar	Khetranath Mazumder	Natungram	Bhatar	8641077009		233627	880809	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.30	12.60	29.37
Sk Hapijur	Sk Ajijul	Bamsore	Bhatar	9733383368		232602	875438	No		Boron and Sulphur nutrition		1 kg	14.80	11.90	24.37

Sk Monsur Ali	Sk Ahamed Ali	Bamsore	Bhatar	8641021047		232603	975433	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	13.80	11.80	16.95
Hiyat Ali	Sk Sovan	Bamsore	Bhatar			232602	875435	No		Boron and Sulphur nutrition		1 kg	15.30	13.10	16.79
Habibur Mollick	Abdul Mollick	Bamsore	Bhatar	8537893510		232606	875432	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.70	12.60	16.67
Sayed Mallick	Fallil Mallick	Bamsore	Bhatar	9735183106		232606	975437	No		Boron and Sulphur nutrition		1 kg	14.90	13.10	13.74
Hamid Mallick	Khalil Molick	Bamsore	Bhatar			232603	875433	No		Boron and Sulphur nutrition		1 kg	15.30	12.50	22.4
Nawsad Ali	Sk Sanad Ali	Bamsore	Bhatar	7478648832		232602	875436	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.00	12.30	30.08
Azhar Hossain	Anawar Hossian	Bamsore	Bhatar	9093597034		232601	875437	No		Boron and Sulphur nutrition		1 kg	15.00	11.90	26.05
Sk Sorhan	Bhulan Sk	Bamsore	Bhatar			232604	875434	No		Boron and Sulphur nutrition		1 kg	14.80	11.60	27.59
Sk Hidar Ali	Sk Ahamed Ali	Bamsore	Bhatar	8016893628		232607	875435	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.60	12.20	27.87
Somesh Bairagya	Gopal Bairagya	Muraripur	Bhatar	9002261372		232400	880138	No		Boron and Sulphur nutrition		1 kg	16.10	11.80	36.44
Amal Ghosh	Gangadhar Ghosh	Muraripur	Bhatar			232401	880140	No		Boron and Sulphur nutrition		1 kg	15.80	12.60	25.4
Arun Day	Sudhamoy Dey	Muraripur	Bhatar	9593579914		232401	880142	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.90	12.40	20.16
Sajal Dey	Rosomoy Dey	Muraripur	Bhatar			232347	880201	No		Boron and Sulphur nutrition		1 kg	16.40	11.90	37.82
Poresh Ghosh	Sudhir Ghosh	Muraripur	Bhatar	9593064425		232358	880204	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.10	12.10	33.06
Arup Ghosh	Arjun Ghosh	Muraripur	Bhatar	8436112235		232351	880159	No		Boron and Sulphur nutrition		1 kg	15.90	11.70	35.9
Saheb Ghosh	Biswanath Ghosh	Muraripur	Bhatar	9232794684		232355	880204	No		Boron and Sulphur nutrition		1 kg	14.80	12.50	18.4
Somenath Ghosh	Sujit Kr Ghosh	Muraripur	Bhatar	9732527447		232402	880138	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.70	12.10	29.75
Tapas Nandi	Bijoy Nandi	Muraripur	Bhatar	9333452198		232401	880139	No		Boron and Sulphur nutrition		1 kg	16.20	13.10	23.66
Sanat Roy	Tarapada Roy	Muraripur	Bhatar	9564281842		232404	880142	No		Boron and Sulphur nutrition		1 kg	16.00	13.20	21.21
Jiban Roy	Binod Roy	Muraripur	Bhatar	9749983771 1		232344	880202	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.80	12.90	22.48
Bhanu Roy	Gopi Krishno Roy	Muraripur	Bhatar			232354	880203	No		Boron and Sulphur nutrition		1 kg	14.90	11.20	33.04

Bakul Hazra	Kubir Hazra	Muraripur	Bhatar	9734262417		232352	880159	No		Boron and Sulphur nutrition		1 kg	16.40	11.70	40.17
Bikash Ghosh	Barin ghosh	Muraripur	Bhatar	8768484264		232356	880202	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.50	12.50	24
Mukul Hazra	Kubir Hazra	Muraripur	Bhatar			232401	880138	No		Boron and Sulphur nutrition		1 kg	15.90	12.10	31.4
Bhala Ghosh	Biraj Ghosh	Muraripur	Bhatar			232402	880140	No		Boron and Sulphur nutrition		1 kg	16.00	12.90	24.03
Saheb Chowdhuri	Susil Chowdhury	Muraripur	Bhatar	8436912122		232401	880145	No		Boron and Sulphur nutrition		1 kg	14.80	11.90	24.37
Babai Som	Alok Som	Muraripur	Bhatar	9836197970		232342	880201	No		Boron and Sulphur nutrition		1 kg	14.00	11.50	21.74
Manash Ghosh	Abhai Ghosh	Muraripur	Bhatar			232356	880203	No		Boron and Sulphur nutrition		1 kg	13.80	12.60	9.52
Laxman Ghosh	Tarapada Ghosh	Muraripur	Bhatar			232351	880157	No		Boron and Sulphur nutrition		1 kg	13.60	11.50	18.26
susanta Ghosh	Gadadhar Ghosh	Muraripur	Bhatar	7797723596		232354	880204	No		Boron and Sulphur nutrition		1 kg	15.90	12.60	26.19
Srikanta Ghosh	Gadadhar Ghosh	Muraripur	Bhatar			232355	880206	No		Boron and Sulphur nutrition		1 kg	15.00	13.10	14.5
Swapan Roy	Gopal Roy	Muraripur	Bhatar	8041726847		232352	880152	No		Boron and Sulphur nutrition		1 kg	16.10	12.50	28.8
Mathura Ghosh	Bhaktaram Ghosh	Muraripur	Bhatar			232354	880204	No		Boron and Sulphur nutrition		1 kg	15.90	12.30	29.27
Suvajit Ghosh	Basudeb Ghosh	Muraripur	Bhatar	9547488212		232354	880156	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.90	11.90	25.21
Amit Ghosh	Soumen Ghosh	Muraripur	Bhatar			232356	880202	No		Boron and Sulphur nutrition		1 kg	15.90	11.60	37.07
Sk Safiul Islam	Abdur Rahim	Kapshore	Bhatar	9647551704		232533	875253	No		Boron and Sulphur nutrition		1 kg	15.80	12.60	25.4
Mafijur Haque Mallick	Golam Mortuza	Kapshore	Bhatar			232532	875250	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	16.00	11.80	35.59
Sushanta Ghosh	Bangshi Ghosh	Kapshore	Bhatar	9734060512		232535	875257	No		Boron and Sulphur nutrition		1 kg	15.40	13.00	18.46
Jagganath Ghosh	Satya Ghosh	Kapshore	Bhatar			232531	875255	Yes	N:P:K:S = 100:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.60	13.40	8.96
Subrata Roy	Shyamapada Roy	Nasigram	Bhatar	9476312499		232423	880225	No		Boron and Sulphur nutrition		1 kg	14.90	11.70	27.35
Sumanta Roy	Mukti Prasad Roy	Nasigram	Bhatar			232447	880204	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.80	12.50	18.4
Balai Roy	Durgapada Roy	Nasigram	Bhatar	9062879349		232446	880157	No		Boron and Sulphur nutrition		1 kg	15.20	12.80	18.75
Gour Roy	Bangshi Roy	Nasigram	Bhatar			232452	880136	Yes	N:P:K:S = 80:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.60	12.60	23.81
Hiru Das	Sanat Das	Nasigram	Bhatar	9547124318		232451	880030	No		Boron and Sulphur nutrition		1 kg	16.10	11.90	35.29

Subhash Saha	Ajit Saha	Nasigram	Bhatar	8768013876		232424	880226	No		Boron and Sulphur nutrition		1 kg	15.30	11.80	29.66
Kailash Bairagya	Sukumar Bairagya	Nasigram	Bhatar	9932736428		232443	880208	No		Boron and Sulphur nutrition		1 kg	14.90	13.10	13.74
Avijit Bairagya	Sahadeb Bairagya	Nasigram	Bhatar	9933957899		232442	880155	No		Boron and Sulphur nutrition		1 kg	14.70	12.60	16.67
Asit Ghosh	Ananta Ghosh	Nasigram	Bhatar	9732211103		232450	880130	No		Boron and Sulphur nutrition		1 kg	13.80	13.10	5.34
Nisit Ghosh	Ananta Ghosh	Nasigram	Bhatar			232445	880035	No		Boron and Sulphur nutrition		1 kg	15.30	12.60	21.43
Inal Sk	Based Sekh	Nasigram	Bhatar	9775754345		232441	880154	No		Boron and Sulphur nutrition		1 kg	15.90	12.30	29.27
Asgar Ali Sk	Janab Sekh	Nasigram	Bhatar	8670829835		232452	880127	No		Boron and Sulphur nutrition		1 kg	15.20	11.90	27.73
Mahabud Alam Mondal	Rahaman Mondal	Bamshore	Bhatar	8001416283		232601	875434	No		Boron and Sulphur nutrition		1 kg	16.10	11.60	38.79
Sk Nizam	Sk Idrish	Bamshore	Bhatar			232602	975437	No		Boron and Sulphur nutrition		1 kg	15.70	12.20	28.69
Kajal Mondal	Abu Siddik	Bamshore	Bhatar	9933386845		232605	875433	No		Boron and Sulphur nutrition		1 kg	14.80	11.80	25.42
Sk Ajmir	Sk Ajim	Bamshore	Bhatar	8670295312		232607	875437	No		Boron and Sulphur nutrition		1 kg	15.20	12.60	20.63
Sk Ahad Ali	Sk Samad	Bamshore	Bhatar			232604	975431	No		Boron and Sulphur nutrition		1 kg	14.60	12.40	17.74
Sk Meher Ali	Sk Aslam	Bamshore	Bhatar			232603	875438	No		Boron and Sulphur nutrition		1 kg	16.00	11.90	34.45
Bivekanand a Pandit	Anil Pandit	Madhpur	Bhatar	8016433797		233629	875724	No		Boron and Sulphur nutrition		1 kg	15.80	12.10	30.58
Majed Ali Sk	Javed Ali Sk	Madhpur	Bhatar	9732156040		233634	875720	No		Boron and Sulphur nutrition		1 kg	15.40	11.70	31.62
Samir Dey	Santi Dey	Salun	Bhatar	9735848969		231322	874716	No		Boron and Sulphur nutrition		1 kg	14.90	12.50	19.2
Lab Gharai	Syamapada Garai	Salun	Bhatar	8116372072		231320	874718	No		Boron and Sulphur nutrition		1 kg	14.30	13.20	8.33
Jhantu Chakrabarti	Chand Chakraborty	Bonpas	Bhatar	8609585281		232304	874850	No		Boron and Sulphur nutrition		1 kg	14.70	13.10	12.21
Jaganath Chakrabati	Nishakar Chakraborty	Bonpas	Bhatar	8348261705		232305	874852	No		Boron and Sulphur nutrition		1 kg	15.60	13.20	18.18
Rahul Ghosh	Dijapada Ghosh	Bonpas	Bhatar	8371923395		232307	874855	No		Boron and Sulphur nutrition		1 kg	16.10	12.90	24.81
Santi Ghosh	Satya Ghosh	Bonpas	Bhatar	7699183346		232302	874853	No		Boron and Sulphur nutrition		1 kg	15.80	11.90	32.77
Nani Gopal Debnath	Purna Debnath	Golahat	Purbastha li-I			232418	874634	No		Boron and Sulphur nutrition		1 kg	15.60	11.70	33.33

Puspa Bag	Fakir Bag	Golahat	Purbastha li-I			232419	874630	No		Boron and Sulphur nutrition		1 kg	14.50	11.70	23.93
Kalpona Bag	Balaram Sarkar	Golahat	Purbastha li-I	8346987596		232420	874632	No		Boron and Sulphur nutrition		1 kg	14.90	12.50	19.2
Gita Bag	Sibhu Roy	Golahat	Purbastha li-I	9593204820		232423	874637	No		Boron and Sulphur nutrition		1 kg	16.00	12.80	25
Avijit Bag	Shankar Bag	Golahat	Purbastha li-I	9800895963		232416	874634	No		Boron and Sulphur nutrition		1 kg	16.20	12.60	28.57
Sunduri Bag	Narayan Bag	Golahat	Purbastha li-I			232413	874630	Yes	N:P:K:S = 100:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.80	11.90	32.77
Chaya sandel	Buroraj Ghorui	Golahat	Purbastha li-I			232416	874639	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.20	11.80	28.81
Aroti Bag	Guruchran Bag	Golahat	Purbastha li-I	9083139357		232414	874636	No		Boron and Sulphur nutrition		1 kg	14.90	13.10	13.74
Bapi Singh	Amal Singh	Golahat	Purbastha li-I	8159912852		232415	874638	No		Boron and Sulphur nutrition		1 kg	13.80	12.60	9.52
Suresh Barui	Gobinda Bauri	Golahat	Purbastha li-I	9564612878		232416	874635	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.50	13.10	10.69
Saraswati Bag	Gurucharan Bag	Golahat	Purbastha li-I	7548911435		232419	874634	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.30	12.50	22.4
Tapas Mazumder	Mantu Majumdar	Golahat	Purbastha li-I	9547070829		232418	874630	No		Boron and Sulphur nutrition		1 kg	15.90	12.30	29.27
Sushanta Halder	Lakshan Haldar	Golahat	Purbastha li-I	9002765322		232413	874632	Yes	N:P:K:S = 80:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.60	11.90	22.69
Arjun Debnath	Chandra Debnath	Golahat	Purbastha li-I	9093064091		232415	874637	No		Boron and Sulphur nutrition		1 kg	15.70	11.60	35.34
Gobinda Ch Das	Tara Das	Kuricha	Purbastha li-I	8900058314		232448	881813	No		Boron and Sulphur nutrition		1 kg	16.00	12.90	24.03
Ronjit Das	Kanu Das	Kuricha	Purbastha li-I	8001946327		232446	881818	No		Boron and Sulphur nutrition		1 kg	15.90	11.90	33.61
Biswmbhar Das	Ramesh Das	Kuricha	Purbastha li-I	8972753029		232449	881819	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.80	11.70	26.5
Sudhir Das	Nakul Das	Kuricha	Purbastha li-I	8926837615		232444	881811	No		Boron and Sulphur nutrition		1 kg	14.60	12.50	16.8
Papun Ch Bhoumik	Debendra Bhowmik	Betpukur	Purbastha li-I	9609303391		232457	881908	No		Boron and Sulphur nutrition		1 kg	13.80	12.10	14.05
Shyamal Das	Narayan Das	Betpukur	Purbastha li-I	9593148827		232453	881902	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.50	12.90	20.16
Ronjit Parui	Adyanath Parui	Belerhalt	Purbastha li-I	9732166458		232455	881912	No		Boron and Sulphur nutrition		1 kg	15.70	11.90	31.93

Mollicka parui	Ram Haldar	Belerhalt	Purbastha li-I			232457	881915	No		Boron and Sulphur nutrition		1 kg	14.60	11.50	26.96
Motilal Debnath	Hare Debnath	Golahat	Purbastha li-I	8001716485		232417	874635	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.90	12.60	18.25
Ratan Debnath	Motilal Debnath	Golahat	Purbastha li-I	9800850334		232414	874630	No		Boron and Sulphur nutrition		1 kg	16.20	11.50	40.87
Anil Shikari	Monoranjan Shikari	Golahat	Purbastha li-I	7699036272		232418	874639	No		Boron and Sulphur nutrition		1 kg	16.10	12.60	27.78
Babulal Dey	Khitish Dey	Chakbamungoria	Purbastha li-I	9002700205		232602	881746	No		Boron and Sulphur nutrition		1 kg	15.90	11.80	34.75
Rajib Debnath	Suresh Debnath	Betpukur	Purbastha li-I	9153168418		232459	881910	Yes	N:P:K:S = 100:40:50:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.20	12.20	24.59
Dipankar Dulo	Satkari Dhulo	Shyampur	Purbastha li-I	9775365791		232448	881841	Yes	N:P:K:S = 80:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	14.80	12.30	20.33
Krishno Debnath	Motilal Debnath	Golahat	Purbastha li-I	9800850334		232415	874636	No		Boron and Sulphur nutrition		1 kg	15.00	11.90	26.05
Sukumar Debnath	Tarani Debnath	Kuricha	Purbastha li-I	8967705009		232446	881814	No		Boron and Sulphur nutrition		1 kg	15.70	12.80	22.66
Tarani Debnath	Motilal Debnath	Kuricha	Purbastha li-I			232444	881818	No		Boron and Sulphur nutrition		1 kg	16.10	13.30	21.05
Suman Debnath	Nimai Debnath	Kuricha	Purbastha li-I	9775144566		232449	881812	No		Boron and Sulphur nutrition		1 kg	15.70	13.10	19.85
Suman Das	Narayn Das	Kuricha	Purbastha li-I	9007285014		232443	881818	No		Boron and Sulphur nutrition		1 kg	15.90	12.60	26.19
Sujit Sil	Lakshan Sil	Parulia	Purbastha li-I	9832768107		232641	881849	No		Boron and Sulphur nutrition		1 kg	14.80	12.50	18.4
Rabi Debnath	Dhirendra Debnath	Golahat	Purbastha li-I	8597926946		232418	874638	No		Boron and Sulphur nutrition		1 kg	14.60	11.80	23.73
Gobinda Goswami	Nimai Goswami	Golahat	Purbastha li-I	9093643360		232419	874635	No		Boron and Sulphur nutrition		1 kg	13.90	12.30	13.01
Binoy Roy	Prem Roy	Golahat	Purbastha li-I	8967682232		232423	874635	No		Boron and Sulphur nutrition		1 kg	13.80	12.70	8.66
Iyakub Ali Sk	Miruddin Sk	Kuldanga	Purbastha li-I	9734760501		232359	881749	No		Boron and Sulphur nutrition		1 kg	15.90	12.40	28.23
Nemai Debnath	Motilal Debnath	Kuricha	Purbastha li-I	9775144566		232446	881816	No		Boron and Sulphur nutrition		1 kg	15.70	11.70	34.19
Narayan Das	Gouranga Das	Kuricha	Purbastha li-I	8972086883		232448	881813	No		Boron and Sulphur nutrition		1 kg	16.10	13.30	21.05

Ganesh Mirda	Srikrishna Mrida	Golahat	Purbastha li-I	8159056470		232416	874630	No		Boron and Sulphur nutrition		1 kg	16.40	13.00	26.15
Kartick Mirda	Srikrishna Mrida	Golahat	Purbastha li-I			232413	874639	No		Boron and Sulphur nutrition		1 kg	15.40	12.50	23.2
Abul Zabbar	Anwar Ali	Alutia	Ausgram-I	9732205791		232952	874302	No		Boron and Sulphur nutrition		1 kg	14.40	11.90	21.01
Mir Asraf Ali	Samsur Alam	Alutia	Ausgram-I	9547315811		233012	874322	No		Boron and Sulphur nutrition		1 kg	14.90	11.60	28.45
Mir Monirul Zamal	Motiar Rahman	Alutia	Ausgram-I	9153001145		232954	874308	No		Boron and Sulphur nutrition		1 kg	13.90	12.20	13.93
Sk Khairul Alam	Sk Anaraul	Alutia	Ausgram-I	9564422609		233052	874334	No		Boron and Sulphur nutrition		1 kg	15.80	11.80	33.9
Nabi Nawaz	Abdur Rashid	Alutia	Ausgram-I	7872330388		233022	874318	No		Boron and Sulphur nutrition		1 kg	15.40	12.60	22.22
Sk Rijaul Haque	Ekramul Haque	Alutia	Ausgram-I	9093695098		232950	874312	No		Boron and Sulphur nutrition		1 kg	14.60	12.40	17.74
Sk Md Ali	Sk Erfan	Alutia	Ausgram-I	7407208835		232957	874305	No		Boron and Sulphur nutrition		1 kg	13.80	11.90	15.97
Sk Sahajahan	Sk Ambia	Alutia	Ausgram-I	8642830130		233045	874329	No		Boron and Sulphur nutrition		1 kg	16.00	12.10	32.23
Sk Nurul Hoda	Abdul Goni	Puratangram	Galsi-I	9933646634		231557	873638	No		Boron and Sulphur nutrition		1 kg	15.40	11.70	31.62
Liakat Ali Mondal	Rahim Mondal	Puratangram	Galsi-I	9735868600		231555	873637	No		Boron and Sulphur nutrition		1 kg	16.10	12.50	28.8
Sk Abdus Sovan	Md Israil	Puratangram	Galsi-I	8609068714		231559	873633	No		Boron and Sulphur nutrition		1 kg	15.90	12.10	31.4
Sahajahan khan	Soyed Khan	Puratangram	Galsi-I	9635122700		231552	873632	No		Boron and Sulphur nutrition		1 kg	15.00	11.60	29.31
Kutubuddin Mondal	Ilias Mondal	Puratangram	Galsi-I	9735100670		231550	873639	No		Boron and Sulphur nutrition		1 kg	14.80	11.80	25.42
Ujir ali Chowdhuri	Sattar Chowdhuri	Puratangram	Galsi-I	8145576807		231557	873630	Yes	N:P:K:S = 100:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	13.60	12.20	11.48
Ahod Mondal	Sadai Mondal	Puratangram	Galsi-I	9732277817		231554	873632	Yes	N:P:K:S = 80:40:40:20 + foliar spray of boron	Boron and Sulphur nutrition		1 kg	15.50	13.00	19.23
Manik Sk	Sayed Ali	Puratangram	Galsi-I	7074884993		231557	873639	No		Boron and Sulphur nutrition		1 kg	15.80	12.50	26.4
Omar Ali Chowduri	Jabbar Chowduri	Puratangram	Galsi-I	9641360699		231552	873630	No		Boron and Sulphur nutrition		1 kg	16.10	13.20	21.97

Bikash Pal	Chandan Pal	Puratangram	Galsi-I	9547957538		231556	873638	No		Boron and Sulphur nutrition		1 kg	14.80	11.50	28.7
Chowdhuri Abul Hossain	Aminul Chowdhuri	Puratangram	Galsi-I	9609688274		231558	873632	No		Boron and Sulphur nutrition		1 kg	15.20	11.90	27.73
Sk Bulbul	Sk Babar	Puratangram	Galsi-I	9143966828		231552	873637	No		Boron and Sulphur nutrition		1 kg	15.60	13.10	19.08
Kamrul Hassan Mallick	Fakir Mallick	Puratangram	Galsi-I	9332131629		231556	873630	No		Boron and Sulphur nutrition		1 kg	14.80	12.50	18.4
Jagatnat Roy	Prafulla Roy	Hitta	Galsi-II	9434123520		232059	874538	No		Boron and Sulphur nutrition		1 kg	16.00	12.30	30.08
Ashim Roy	Prafulla Roy	Hitta	Galsi-II			232102	874835	No		Boron and Sulphur nutrition		1 kg	15.90	11.90	33.61
Sk Nurislam	Anwar Hossain	Taranagar	Galsi-II	8768527799		232137	874427	No		Boron and Sulphur nutrition		1 kg	16.10	11.60	38.79
Kazi Anarul	Kazi Asraf	Sankrai	Galsi-II	9547371436		232154	874551	No		Boron and Sulphur nutrition		1 kg	15.90	12.90	23.26
Kazi Sahakat	Kazi Asgar	Sankrai	Galsi-II	9641701794		232155	874543	No		Boron and Sulphur nutrition		1 kg	14.80	11.90	24.37
Rijaul Sk	Sk Tajmul	Taranagar	Galsi-II	9641824204		232138	874425	No		Boron and Sulphur nutrition		1 kg	14.20	11.70	21.37
Rajesh Roy	Mukul Roy	Hitta	Galsi-II	7699574683		232040	874547	No		Boron and Sulphur nutrition		1 kg	13.80	12.50	10.4
Baniprasad Roy	Swapan Roy	Hitta	Galsi-II	8509006200		232039	874551	No		Boron and Sulphur nutrition		1 kg	14.40	12.10	19.01
Jeet Roy	Jagannath Roy	Hitta	Galsi-II	9832697473		232039	874552	No		Boron and Sulphur nutrition		1 kg	15.30	12.90	18.6
Somnath Roy	Nakur Roy	Sarul	Galsi-II	9434200953		231922	874232	No		Boron and Sulphur nutrition		1 kg	15.90	13.00	22.31
Sanat Kr Roy	Nakur Roy	Sarul	Galsi-II			231908	874208	No		Boron and Sulphur nutrition		1 kg	15.30	12.50	22.4
Goureswar Roychowdhuri	Gangadhar Roychowdhuri	Sarul	Galsi-II	9153176588		231908	874205	No		Boron and Sulphur nutrition		1 kg	15.90	13.20	20.45

c) Crop: Lentil

Name of farmer	Father name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Brief technology intervention	Variety	Seed quantity used	Yield of local check (q/ha)	Demo Yield (q/ha)	% increase
						Latitude	Longitude								
Abusiddik Sekh	Abser sk	Bamshore	Bhatar	9153926440	-	232409	873317	Yes	N:P:K = 20:40:30	IPM	Moitree	4 kg/ bigha	9.6	10.5	9.38
Sk Raju	Hider sk	Bamshore	Bhatar	9091460588	-	232409	873317	No		IPM	Moitree	4 kg/ bigha	7.1	7.8	9.86
Munshi Aroj	Munshi Azijul	Bamshore	Bhatar	9474603776	-	232409	873317	No		IPM	Moitree	4 kg/ bigha	7	7.2	2.86
Sk Aju	Sk Moju	Bamshore	Bhatar		-	232409	873317	No		IPM	Moitree	4 kg/ bigha	6.9	7.6	10.14
Sk Azhar Hossain	Sk Anowar Hossain	Bamshore	Bhatar	9093597034	-	232341	873402	No		IPM	Moitree	4 kg/ bigha	7.1	8.1	14.08
Rajkumar Ghosh	Sudhir Ghosh	Kanchgoria	Bhatar	9932103605	-	232409	873317	Yes	N:P:K = 20:40:30	IPM	Moitree	4 kg/ bigha	8.1	9.2	13.58
Sk Khokan	Sk Salauddin	Bamshore	Bhatar	7699957653	-	232409	873317	No		IPM	Moitree	4 kg/ bigha	6.9	7.7	11.59
sanjib Ghosh	Raj Kumar Ghosh	Kanchgoria	Bhatar	9609888395	-	232409	873317	Yes	N:P:K = 20:40:30	IPM	Moitree	4 kg/ bigha	7.2	7.9	9.72
Sk Sadrul Alam	Sk Khosbahar	Rajipur	Bhatar	9734738528	-	232340	873912	No		IPM	Moitree	4 kg/ bigha	7.5	7.5	0.00
Mohan Sk	Ahadat Sk	Gholda	Bhatar	9732217147	-	232340	873912	No		IPM	Moitree	4 kg/ bigha	Crop failed due to release of canal water. Demonstration was initiated with the information that canal water would not be given in that area.		
Sk Azharuddin	Sk Asrof Sk	Gholda	Bhatar	8159960162	-	232340	873912	No		IPM	Moitree	4 kg/ bigha			
Jafar Mondal	Mukter Mondal	Gholda	Bhatar	7602139251	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Kasem Mondal	Mannan Mondal	Gholda	Bhatar	9734228021	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Hakim Mondal	Hamid Mondal	Gholda	Bhatar	7602857406	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Abul kasem	Sk Sajeman	Gholda	Bhatar	9153337524	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Sk Makhon	Sk Meher Ali	Gholda	Bhatar	9093871382	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Sk Chandan	Sk suvan Ali	Gholda	Bhatar	9153047229	-	232132	872944	No		IPM	Moitree	4 kg/ bigha			
Mohendra Hazra	Bonomali Hazra	Palar	Bhatar	9932607008	-	232132	872944			IPM	Moitree	4 kg/ bigha			

Nurjahan Begam	Narul Hoda	Fatepur	Galsi-I	7602811054	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.9	8	15.94
Najma Begam	Sk Asgar	Fatepur	Galsi-I	8116715931	-	232132	872944	No		IPM	Moitree	4 kg/ bigha	7	7.7	10.00
Habib kaji	Kaji Based Ali	Fatepur	Galsi-I	8116575522	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.3	8.4	15.07
Sanjoy Batabyal	Madan Batabyal	Fatepur	Galsi-I	8159893311	-	232132	872944	No		IPM	Moitree	4 kg/ bigha	7.2	7.9	9.72
Sarif Kaji	Hasibar Kazi	Fatepur	Galsi-I	9564688482	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.2	7.8	8.33
Sabur Ali Mondal	Jamir Mondal	Fatepur	Galsi-I	8609083415	-	232132	872944	No		IPM	Moitree	4 kg/ bigha	6.8	7.8	14.71
Sumsuddin Sk	Sk Kamaluddin	Fatepur	Galsi-I		-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.8	7.2	5.88
Amina khatun	Tabibar Kazi	Fatepur	Galsi-I	8158858797	-	232409	873317	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.4	7.1	10.94
Mukmuddin Sk	Sk Mohobul	Fatepur	Galsi-I	8159904205	-	233427	872636	No		IPM	Moitree	4 kg/ bigha	6.5	7.1	9.23
Lokeman Sk	Mahabul Sk	Fatepur	Galsi-I		-	233427	872636	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.8	7.1	4.41
Amir kaji	Sabibar Kazi	Fatepur	Galsi-I	9091344863	-	233427	872636	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.8	7.3	7.35
Sk Majid	Sk Abdul	Fatepur	Galsi-I	9093158649	-	233427	872636	No		IPM	Moitree	4 kg/ bigha	7.1	8	12.68
Sk Moksud	Mustakim Sk	Fatepur	Galsi-I	8515991906	-	232409	873317	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.5	7.9	5.33
Rathin Deshali	Ramesh Deshli	Fatepur	Galsi-I		-	232409	873317	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	8.9	10.1	13.48
Ajit Ghosh	Durgapada Ghosh	Fatepur	Galsi-I	8972192780	-	232409	873317	No		IPM	Moitree	4 kg/ bigha	7.9	7.9	0.00
Uttam Mukharjee	Nirad Mukharjee	Fatepur	Galsi-I	8972084538	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.5	8.1	8.00
Sk Akbar	Sk Sultan	Fatepur	Galsi-I	7602811054	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.7	8.1	5.19
Mangaldeep Ghosh	Nabakumar Ghosh	Fatepur	Galsi-I	9153763339	-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.9	7.2	4.35
Sukumar Ghosh	Bhalanath Ghosh	Fatepur	Galsi-I	7585058963	-	232132	872944	No		IPM	Moitree	4 kg/ bigha	6.4	7.1	10.94
Dhiren Ghosh	Kamal Ghosh	Fatepur	Galsi-I		-	232132	872944	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	6.7	7.3	8.96
Kartick Ghosh	Bhalanath Ghosh	Fatepur	Galsi-I	8972192780	-	232902	874824	No		IPM	Moitree	4 kg/ bigha	6.8	7.3	7.35

Badal Ghosh	Nirapada Ghosh	Fatepur	Galsi-I	9679997419	-	232902	874824	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.1	7.7	8.45
Uttam Ghosh	Kamal Ghosh	Fatepur	Galsi-I		-	232902	874824	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.4	8.1	9.46
Sk Mithu	Sk Asgar	Fatepur	Galsi-I	9609704532	-	232902	874824	No		IPM	Moitree	4 kg/ bigha	7.5	8.2	9.33
haradhan Bagdi	Saktipada Bagdi	Fatepur	Galsi-I	8016329203	-	232902	874824	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.9	8.5	7.59
Amal Kanta ghosh	Gangadar Ghosh	Fatepur	Galsi-I	9564660157	-	232902	874824	Yes	N:P:K = 20:40:20	IPM	Moitree	4 kg/ bigha	7.8	8.6	10.26
Liakat Ali Mondal	Rahim Mondal	Puratangr am	Galsi-I	9735868600	-	232902	874824	No		IPM	Moitree	4 kg/ bigha	7.2	7.9	9.72
Sahajahan Khan	Saidar Khan	Puratangr am	Galsi-I	9635122700	-	232902	874824	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.5	7.2	10.77
Kamrul Hossain	Fakir Md Mollick	Puratangr am	Galsi-I	9332131629	-	232902	874824	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.2	8.9	23.61
Ahal Mondal	Sadamani Mondal	Puratangr am	Galsi-I	9732277817	-	232902	874824	No		IPM	Moitree	4 kg/ bigha	6.4	6.9	7.81
Manirul hossain Sk	Sayed Ali Sk	Puratangr am	Galsi-I	9609688287	-	232902	874824	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.4	7	9.37
Chowdhuri Abdul Hossain	Chowdhuri Amirul	Puratangr am	Galsi-I	9609688274	-	232401	880149	No		IPM	Moitree	4 kg/ bigha	6.2	6.9	11.29
Kutubuddin Mondal	Ilias Mondal	Puratangr am	Galsi-I	9735100670	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.3	6.9	9.52
Sk Bulbul	Babar Ali Sk	Puratangr am	Galsi-I	9091500202	-	232401	880149	No		IPM	Moitree	4 kg/ bigha	6.3	7	11.11
Ujir Ali Chowdhuri	Sattar Chowduri	Puratangr am	Galsi-I	8372950993	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.7	7.5	11.94
Sk Abdus Sovan	Sk Md Israil	Puratangr am	Galsi-I	8609068714	-	232401	880149	No		IPM	Moitree	4 kg/ bigha	6.5	7.1	9.23
Amar ali Chowdhuri	Jabbar Chowdhuri	Puratangr am	Galsi-I	8159997533	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.4	8.4	13.51
Anisur Rahaman	Sk Abdul Goni	Puratangr am	Galsi-I	8514822694	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.5	8.3	10.67
Jonab Ali	Sk Aksed	Puratangr am	Galsi-I	9093836099	-	233629	875724	No		IPM	Moitree	4 kg/ bigha	6.9	7.6	10.14
Sk Fajle Hoque	Sk Samser	Uchchagr am	Galsi-I	8640864056	-	232418	874635	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.5	8.4	12.00
Mojammel Sk	Abdul Sattar	Uchchagr am	Galsi-I	9679915884	-	232418	874635	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.8	8.6	10.26

Sk Nurislam	Sk Anowar Hossain	Srirorai	Galsi-I	8768527797	-	232418	874635	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.1	9.1	12.35
Abdul Hoque Mondal	Nizam Ali Mondal	Srirorai	Galsi-I	9732313155	-	232943	875058	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	9.9	11.3	14.14
Sohel Munshi	Rafiquil Munshi	Srirorai	Galsi-I	9732100177	-	232502	875121	No		IPM	Moitree	4 kg/ bigha	7.7	8.5	10.39
Sk Rijaul	Sk Ajmal Hossain	Srirorai	Galsi-I	9641824204	-	232502	875121	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.9	8.6	8.86
Raju Mondal	Bhudhar mondal	Kondaipur	Galsi-I	9153532894	-	232502	875121	No		IPM	Moitree	4 kg/ bigha	7.8	8.5	8.97
Subrata Mondal	Nabakumar Mondal	Kondaipur	Galsi-I	9733063869	-	232502	875121	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.5	8.5	13.33
Mongla Mardi	Bhagan Mardi	Kondaipur	Galsi-I	7478149611	-	232502	875121	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.8	8.4	7.69
Prosanta Sur	Basudeb Sur	Kondaipur	Galsi-I	9732354913	-	233624	880814	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.6	9.1	5.81
Sudeb Ghosh	Netai Ghosh	Kondaipur	Galsi-I	7872365061	-	233624	880814	No		IPM	Moitree	4 kg/ bigha	8.1	8.9	9.88
Monoj Santra	Sakti Santra	Kondaipur	Galsi-I	9564320175	-	233624	880814	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7	8.1	15.71
Sumanta Mondal	Basudeb Mondal	Kondaipur	Galsi-I	9732170667	-	233624	880814	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.9	8.4	6.33
Laxman Khan	Panu khan	Kondaipur	Galsi-I	9093368430	-	233624	880814	No		IPM	Moitree	4 kg/ bigha	7.6	7.9	3.95
Debrata Mondal	Janoki Mondal	Kondaipur	Galsi-I	9233094592	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.2	8.7	6.10
joyanta mondal	Sital Mondal	Kondaipur	Galsi-I	8537016212	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.9	8.6	8.86
Neamai Mondal	Sasadhar Mondal	Kondaipur	Galsi-I	9153136921	-	232401	880149	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.2	8.9	8.54
Ashim Pal	Sudhakar Pal	Kondaipur	Galsi-I	9564660118	-	232401	880149	No		IPM	Moitree	4 kg/ bigha	8.1	8.9	9.88
Ronjit Bagdi	Satkari Bagdi	Kondaipur	Galsi-I	8609866581	-	233624	880814	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8	8.9	11.25
Buddhadeb bagdi	Chandal Bagdi	Kondaipur	Galsi-I	9153188262	-	232424	875427	No		IPM	Moitree	4 kg/ bigha	8.6	9.1	5.81
Gour Mondal	Kuroram Mondal	Kondaipur	Galsi-I		-	232424	875427	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.5	9.1	7.06
Joydeb Ghosh	Poresh Ghosh	Kondaipur	Galsi-I	8436200856	-	232424	875427	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	8.5	9.2	8.24

Suvash Mondal	Sudhir Mondal	Kondaipur	Galsi-I	7797501916	-	232424	875427	No		IPM	Moitree	4 kg/ bigha	7.5	8.3	10.67
Provas Banarjee	Muktipada Banarjee	Kondaipur	Galsi-I	9232429545	-	232424	875427	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.6	8.4	10.53
Laxman Mondal	Arun kr Mondal	Kondaipur	Galsi-I	9232174472	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.75	7.6	12.59
Damal Mondal	Madan Mondal	Kondaipur	Galsi-I	9564652767	-	232448	881813	No		IPM	Moitree	4 kg/ bigha	7	7.9	12.86
Soumen Banarjee	Niranjan Banarjee	Kondaipur	Galsi-I	9734741961	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.3	8.4	15.07
Chand Md Mirda	Mohim Mirda	BudBud	Galsi-I	8372890335	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.15	7.8	9.09
Nirmal Kundu	Lakhi Kundu	BudBud	Galsi-I	8972220180	-	232448	881813	No		IPM	Moitree	4 kg/ bigha	6.95	7.6	9.35
Swapan Ruidas	Hariram Ruidas	BudBud	Galsi-I	7318611978	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7	7.7	10.00
Dharma Das	Sankar Das	BudBud	Galsi-I		-	232448	881813	No		IPM	Moitree	4 kg/ bigha	7.5	8.2	9.33
Shambhunath Kundu	Lakhi Kundu	BudBud	Galsi-I	9153756524	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.55	7.3	11.45
Sunil Dey	Sasadhar Dey	BudBud	Galsi-I	9748233525	-	232448	881813	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.9	7.3	5.80
Bapi Paramanik	Dukhiram Paramanik	BudBud	Galsi-I	8906266382	-	232427	881758	No		IPM	Moitree	4 kg/ bigha	7	7.4	5.71
Sunil prasad	Prodip Prasad	BudBud	Galsi-I	9093168906	-	232448	881841	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	6.7	7.2	7.46
Samir Koner	Tarapada Konar	Natungram	Kanksa	9732266194	-	232526	881634	No		IPM	Moitree	4 kg/ bigha	6.95	7.8	12.23
Sahadeb Koner	Barindra Konar	Natungram	Kanksa	8392016645	-	232535	881844	Yes	N:P:K= 20:50:30	IPM	Moitree	4 kg/ bigha	7.1	7.9	11.27
Mir Abdul Zabbar	Mir Anowar Ali	Alutia	Ausgram-I	9732205791	-	232535	881844	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	7	7.9	12.86
Sk Khairul Alam	Sk Anarul Hoque	Alutia	Ausgram-I	9564422609	-	232448	881813	No		IPM	Moitree	4 kg/ bigha	7.5	8.1	8.00
Sk Sahajahan Ali	Sk Ambia	Alutia	Ausgram-I	8642830130	-	232535	881844	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	6.65	7.3	9.77
Nabinawaj Sk	Abdul Rasid	Alutia	Ausgram-I	7872330388	-	232526	881634	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	6.75	7.2	6.67
Mir Kumrul Zamal	Mir Motier Rahaman	Alutia	Ausgram-I	9153001145	-	232535	881844	No		IPM	Moitree	4 kg/ bigha	7	7.7	10.00
Sk Ibrahim	Sk Younis	Alutia	Ausgram-I	8768709966	-	232535	881844	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	7.2	7.9	9.72

Sk Md Ali	Sk Erfan	Alutia	Ausgram-I	7407208835	-	232448	881813	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	7.35	8.1	10.20
Mir Asraf Ali	Mir Samsul Alam	Alutia	Ausgram-I	9547315811	-	232535	881844	No		IPM	Moitree	4 kg/ bigha	6.55	7.2	9.92
Sumsul Sk	Kibria Sk	Alutia	Ausgram-I	8926249411	-	232448	881813	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	6.95	7.4	6.47
Sk Nabinawaj	Sahajahan Ali	Alutia	Ausgram-I	8642830130	-	232509	881743	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	6.8	7.3	7.35
Sk Rijaul hoque	SK Anowar	Alutia	Ausgram-I		-	232427	881758	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	7.6	8.1	6.58
Sk Khairul Alam	Sk Badra Alam	Alutia	Ausgram-I		-	231154	875459	Yes	N:P:K= 20:40:20	IPM	Moitree	4 kg/ bigha	7.8	8.4	7.69

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													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	4	0	0	0	0	0	0	27	14	41	27	14	41
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit	2	0	0	0	0	0	0	7	43	50	7	43	50
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	2	0	0	0	0	0	0	36	15	51	36	15	51
Others, if any(INM)													
c) Ornamental Plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	2	0	0	0	0	0	0	43	20	63	43	20	63
Nutrient Use Efficiency	3	0	0	0	0	0	0	39	35	74	39	35	74
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													

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 Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
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	1	20	0	20	8	0	8	2	0	2	30	0	30
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	3	0	0	0	0	0	0	47	43	90	47	43	90
Carp fry and fingerling rearing													
Composite fish culture & fish disease													

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
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production	3	0	0	0	0	0	0	46	31	77	46	31	77
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	2							0	60	60	0	60	60
Entrepreneurial development of farmers/youths	1	0	0	0	0	0	0	1	29	30	1	29	30
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**23**	**20**	**0**	**20**	**8**	**0**	**8**	**248**	**290**	**538**	**276**	**290**	**566**

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													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture	2							43	7	50	43	7	50
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													
Composite fish culture	4	20	0	20	0	0	0	0	0	0	20	0	20
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	5	18	0	18	0	0	0	2	0	2	20	0	20
Fry and fingerling rearing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
TOTAL	**11**	**38**	**0**	**38**	**0**	**0**	**0**	**45**	**7**	**52**	**83**	**7**	**90**

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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
TOTAL													

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3							24	51	75	24	51	75
Resource Conservation Technologies	4							44	55	99	44	55	99
Cropping Systems	3							35	42	77	35	42	77
Crop Diversification	1							22	1	23	22	1	23
Integrated Farming	1	22	0	22	4	0	4	0	0	0	26	0	26
Water management	3							64	26	90	64	26	90
Seed production	1	25	0	25	0	0	0	0	0	0	25	0	25
Nursery management													
Integrated Crop Management	1							8	12	20	8	12	20
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	3							42	33	75	42	33	75
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management	1	2	0	2	3	0	3	14	12	26	19	12	31
Enterprise development													
Skill development	1	22	0	22	3	0	3				25	0	25
Yield increment													
Production of low volume and high value crops	3							44	18	62	44	18	62
Off-season vegetables	2							27	23	50	27	23	50
Nursery raising	1	25	5	30							25	5	30
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	28	0	28	2	0	2				30	0	30
Others, if any (Cultivation of Vegetable)	1							19	5	24	19	5	24
Training and Pruning													
b) Fruits													
Layout and Management of Orchards	4							46	53	99	46	53	99
Cultivation of Fruit	1	23	0	23	8	0	8	0	0	0	31	0	31
Management of young plants/orchards	1	22	0	22	3	0	3				25	0	25
Rejuvenation of old 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
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management	2							27	12	39	27	12	39
Soil and Water Conservation	1	34	0	34	0	0	0	0	0	0	34	0	34
Integrated Nutrient Management	1	17	0	17	2	1	3				19	1	20
Production and use of organic inputs													
Management of Problematic soils	3							47	13	60	47	13	60
Micro nutrient deficiency in crops	1	20	1	21	4	0	4				24	1	25
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products	1	29	0	29	2	0	2				31	0	31
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	33	0	33							33	0	33
Use of Plastics in farming practices													
Production of small tools and implements	1	0	27	27	0	4	4	0	3	3	0	34	34
Repair and maintenance of farm machinery and implements	1	33	0	33							33	0	33
Small scale processing and value addition	2							26	35	61	26	35	61
Post Harvest Technology	1							0	20	20	0	20	20
Others, if any													
VII. Plant Protection													
Integrated Pest Management	2	59	0	59	2	0	2	0	0	0	61	0	61
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
VIII. Fisheries													
Integrated fish farming	2							40	15	55	40	15	55
Carp breeding and hatchery management	1	22	0	22	5	0	5	1	0	1	28	0	28
Carp fry and fingerling rearing	2							45	15	60	45	15	60
Composite fish culture & fish disease	2							45	5	50	45	5	50
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	1	22	0	22	6	0	6	2	0	2	30	0	30
Hatchery management and culture of freshwater prawn	1							24	6	30	24	6	30
Breeding and culture of ornamental fishes	1	20	0	20	5	0	5				25	0	25
Portable plastic carp hatchery	1	23	0	23	2	0	2				25	0	25
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any	1	22	3	25							22	3	25
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production	1	19	2	21	3	1	4				22	3	25
Bio-pesticides production	1	20	3	23	2	0	2				22	3	25
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	1							22	4	26	22	4	26
Group dynamics	2							0	40	40	0	40	40
Formation and Management of SHGs	4							2	79	81	2	79	81
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues	1							0	30	30	0	30	30
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	**75**	**542**	**41**	**583**	**56**	**6**	**62**	**670**	**608**	**1278**	**1268**	**655**	**1923**

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	4							53	47	100	53	47	100
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology	3							0	65	65	0	65	65
Tailoring and Stitching	7							0	20	20	0	20	20
Rural Crafts	15							0	20	20	0	20	20
Others, if any													
TOTAL	**29**	**0**	**0**	**0**	**0**	**0**	**0**	**53**	**152**	**205**	**53**	**152**	**205**

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	1	22	0	22	4	0	4	0	0	0	26	0	26
Integrated Pest Management	2	59	0	59	2	0	2	0	0	0	61	0	61
Integrated Nutrient management	1	2	0	2	3	0	3	14	12	26	19	12	31
Rejuvenation of old orchards	1	23	0	23	8	0	8	0	0	0	31	0	31
Value addition													
Protected cultivation technology	1	28	0	28	2	0	2				30	0	30
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	2	33	27	60	0	4	4	0	3	3	33	34	67
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production	1	29	0	29	2	0	2				31	0	31

Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing	1	34	0	34	0	0	0	0	0	0	34	0	34
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any	2	44	0	44	11	0	11	3	0	3	58	0	58
TOTAL	**12**	**274**	**27**	**301**	**32**	**4**	**36**	**17**	**15**	**32**	**323**	**46**	**369**

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	3							24	51	75	24	51	75
Resource Conservation Technologies	4							44	55	99	44	55	99
Cropping Systems	3							35	42	77	35	42	77
Crop Diversification	1							22	1	23	22	1	23
Integrated Farming	1	22	0	22	4	0	4	0	0	0	26	0	26
Water management	3							64	26	90	64	26	90
Seed production	1	25	0	25	0	0	0	0	0	0	25	0	25
Nursery management													
Integrated Crop Management	1							8	12	20	8	12	20
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	3							42	33	75	42	33	75
TOTAL	20	47	0	47	4	0	4	239	220	459	290	220	510
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management	1	2	0	2	3	0	3	14	12	26	19	12	31
Enterprise development													
Skill development	1	22	0	22	3	0	3				25	0	25
Yield increment													
Production of low volume and high	3							44	18	62	44	18	62

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
value crops													
Off-season vegetables	2							27	23	50	27	23	50
Nursery raising	1	25	5	30							25	5	30
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	28	0	28	2	0	2				30	0	30
Others, if any (Cultivation of Vegetable)	5	0	0	0	0	0	0	46	19	65	46	19	65
TOTAL	14	77	5	82	8	0	8	131	72	203	216	77	293
b) Fruits													
Training and Pruning													
Layout and Management of Orchards	4							46	53	99	46	53	99
Cultivation of Fruit	3	23	0	23	8	0	8	7	43	50	38	43	81
Management of young plants/orchards	1	22	0	22	3	0	3				25	0	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	2	0	0	0	0	0	0	36	15	51	36	15	51
Others, if any(INM)													
TOTAL	10	45	0	45	11	0	11	89	111	200	145	111	256
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2							27	12	39	27	12	39
Soil and Water Conservation	1	34	0	34	0	0	0	0	0	0	34	0	34
Integrated Nutrient Management	1	17	0	17	2	1	3				19	1	20
Production and use of organic inputs													
Management of Problematic soils	3							47	13	60	47	13	60
Micro nutrient deficiency in crops	3	20	1	21	4	0	4	43	20	63	67	21	88
Nutrient Use Efficiency	3	0	0	0	0	0	0	39	35	74	39	35	74
Soil and Water Testing													
Others, if any													
TOTAL	13	71	1	72	6	1	7	156	80	236	233	82	315
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products	1	29	0	29	2	0	2				31	0	31
Others, if any (Goat farming)													
TOTAL	1	29	0	29	2	0	2				31	0	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													

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
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													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	33	0	33							33	0	33
Use of Plastics in farming practices													
Production of small tools and implements	1	0	27	27	0	4	4	0	3	3	0	34	34
Repair and maintenance of farm machinery and implements	1	33	0	33							33	0	33
Small scale processing and value addition	2							26	35	61	26	35	61
Post Harvest Technology	1							0	20	20	0	20	20
Others, if any													
TOTAL	6	66	27	93	0	4	4	26	58	84	92	89	181
VII. Plant Protection													
Integrated Pest Management	3	79	0	79	10	0	10	2	0	2	91	0	91
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	3	79	0	79	10	0	10	2	0	2	91	0	91
VIII. Fisheries													
Integrated fish farming	2							40	15	55	40	15	55
Carp breeding and hatchery management	4	22	0	22	5	0	5	48	43	91	75	43	118
Carp fry and fingerling rearing	2							45	15	60	45	15	60
Composite fish culture & fish disease	2							45	5	50	45	5	50
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	1	22	0	22	6	0	6	2	0	2	30	0	30
Hatchery management and culture of freshwater prawn	1							24	6	30	24	6	30
Breeding and culture of ornamental fishes	1	20	0	20	5	0	5				25	0	25
Portable plastic carp hatchery	1	23	0	23	2	0	2				25	0	25
Pen culture of fish and prawn													
Shrimp farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any	1	22	3	25							22	3	25
TOTAL	15	109	3	112	18	0	18	204	84	288	331	87	418
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production	1	19	2	21	3	1	4				22	3	25
Bio-pesticides production	4	20	3	23	2	0	2	46	31	77	68	34	102
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													
TOTAL	5	39	5	44	5	1	6	46	31	77	90	37	127
X. Capacity Building and Group Dynamics													
Leadership development	1							22	4	26	22	4	26
Group dynamics	2							0	40	40	0	40	40
Formation and Management of SHGs	4							2	79	81	2	79	81
Mobilization of social capital	2							0	60	60	0	60	60
Entrepreneurial development of farmers/youths	1	0	0	0	0	0	0	1	29	30	1	29	30
WTO and IPR issues	1							0	30	30	0	30	30
Others, if any													
TOTAL	11	0	0	0	0	0	0	25	242	267	25	242	267
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**98**	**562**	**41**	**603**	**64**	**6**	**70**	**918**	**898**	**1816**	**1544**	**945**	**2489**

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													
Planting material production													
Vermi-culture	6							96	54	150	96	54	150
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture	4	20	0	20	0	0	0	0	0	0	20	0	20
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	5	18	0	18	0	0	0	2	0	2	20	0	20
Fry and fingerling													

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
rearing													
Small scale processing													
Post Harvest Technology	3							0	65	65	0	65	65
Tailoring and Stitching	7							0	20	20	0	20	20
Rural Crafts	15							0	20	20	0	20	20
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	**40**	**38**	**0**	**38**	**0**	**0**	**0**	**98**	**159**	**257**	**136**	**159**	**295**

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	1	22	0	22	4	0	4	0	0	0	26	0	26
Integrated Pest Management	2	59	0	59	2	0	2	0	0	0	61	0	61
Integrated Nutrient management	1	2	0	2	3	0	3	14	12	26	19	12	31
Rejuvenation of old orchards	1	23	0	23	8	0	8	0	0	0	31	0	31
Value addition													
Protected cultivation technology	1	28	0	28	2	0	2				30	0	30
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	2	33	27	60	0	4	4	0	3	3	33	34	67
WTO and IPR issues													

Management in farm animals													
Livestock feed and fodder production	1	29	0	29	2	0	2				31	0	31
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing	1	34	0	34	0	0	0	0	0	0	34	0	34
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any	2	44	0	44	11	0	11	3	0	3	58	0	58
TOTAL	**12**	**274**	**27**	**301**	**32**	**4**	**36**	**17**	**15**	**32**	**323**	**46**	**369**

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agriculture	PF	Improved technology for jute production	3	Off	42	33	75	42	33	75
	PF	Post harvest operation of jute	3	Off	35	42	77	35	42	77
	PF	Weed management of jute	3	Off	24	51	75	24	51	75
	PF	Rice Cultivation through SRI	4	Off	44	55	99	44	55	99
	PF	Increasing cropping intensity through inclusion of crop in rice-rice system	1	Off	22	1	23	22	1	23
	PF	Introduction of pulse crops in less developed areas of the district	1	Off	8	12	20	8	12	20
	PF	Water management in crops	3	Off	64	26	90	64	26	90
	PF	Improved fertilizer management in oilseeds and pulses	2	Off	27	12	39	27	12	39
	PF	Ameliorating acidity development in soil	3	Off	47	13	60	47	13	60
	PF	Rice cultivtion through SRI	1	Off	26	0	26	4	0	4

	PF	Increasing nutrient use efficiency in rice and other crops	1	Off	34	0	34	0	0	0
	PF	Management of problematic soil	1	Off	19	1	20	2	1	3
	PF	Micronutrient managaments of crops	1	Off	24	1	25	4	0	4
	PF	Rice cultivtion through SRI	1	Off	25	0	25	0	0	0
	PF	IPM in rice	1	On	30	0	30	10	0	10
	PF	Nutrient use efficiency	3	On	39	35	74	39	35	74
	PF	Need for micronutrient application in major crops vis-à-vis emerging micronutrient deficiency in soil in Burdwan	2	On	43	20	63	43	20	63
	RY	Vermicompost production	4	Off	53	47	100	53	47	100
	RY	Vermicompost Production	2	On	43	7	50	43	7	50
	EF	Rice cultivtion through SRI	1	Off	25	0	25	0	0	0
	EF	Increasing cropping intensity through inclusion of crop in rice-rice system	1	Off	22	1	23	22	1	23
	EF	Micronutrient managaments of crops	1	Off	24	1	25	4	0	4
Horticulture	PF	Orchard development	4	Off	46	53	99	46	53	99
	PF	Improved kharif onion cultivation techniques	2	Off	27	23	50	27	23	50
	PF	Improved vegetable cultivation	1	Off	19	5	24	19	5	24
	PF	Improved potato cultivation	3	Off	44	18	62	44	18	62
	PF	Improved cultivation of TCB	1	Off	31	0	31	8	0	8
	PF	Micro irrigation system in horticulture	1	Off	19	12	31	17	12	29
	PF	Pest and disease management of major vegetable	2	Off	61	0	61	2	0	2
	PF	Improved cultivation techniques of major vegetable crops	1	Off	30	0	30	2	0	2
	PF	Production of bio-control agents and bio-pesticides	3	On	46	31	77	46	31	77

	PF	Improved vegetable cultivation	4	On	27	14	41	27	14	41
	PF	Plant propagation techniques	2	On	36	15	51	36	15	51
	PF	Improved cultivation of TCB	2	On	7	43	50	7	43	50
	PF	Production of organic inputs at farmers level	1	Off	22	3	25	3	1	4
	PF	Nursery raising techniques for vegetables	1	Off	25	0	25	3	0	3
	PF	Crop diversification through banana cultivation	1	Off	25	0	25	3	0	3
	PF	Preparation of organic pesticides and its use	1	Off	22	3	25	2	0	2
	PF	Improved cultivation techniques of major vegetable crops	1	Off	25	5	30	0	0	0
	EF	Improved cultivation of TCB	2	On	7	43	50	7	43	50
	EF	Pest and disease management of major vegetable	2	Off	61	0	61	2	0	2
	EF	Improved vegetable cultivation	4	On	27	14	41	27	14	41
Fishery	PF	Hatchery management and culture of freshwater prawn	1	Off	24	6	30	24	6	30
	PF	Integrated fish culture	2	Off	40	15	55	40	15	55
	PF	Carp fry and fingerling production	2	Off	45	15	60	45	15	60
	PF	Composite fish culture	2	Off	45	5	50	45	5	50
	PF	Disease management in composite fish culture	1	Off	28	0	28	6	0	6
	PF	Effects of liming at fishpond	1	Off	30	0	30	8	0	8
	PF	Induced breeding of IMC	1	Off	25	0	25	5	0	5
	PF	Nursery pond culture and management of crops	1	Off	25	0	25	2	0	2
	PF	Improved culture practices of air breathing fish	1	Off	22	3	25	0	0	0
	PF	Carp breeding and hatchery management	3	On	47	43	90	47	43	90
	RY	Integrated fish culture	4	On	20	0	20	0	0	0

	RY	Recent advances in aquaculture	5	On	20	0	20	2	0	2
	EF	Disease management in composite fish culture	1	Off	28	0	28	6	0	6
	EF	Effects of liming at fishpond	1	Off	30	0	30	8	0	8
Agril Extn.	PF	Efficiency methods of water management	1	Off	22	4	26	22	4	26
	PF	Formation of SHG and its maintenance	4	Off	2	79	81	2	79	81
	PF	Small scale processing and value addition in rice	2	Off	0	40	40	0	40	40
	PF	Cultivation Practices of different fodder crops	1	Off	31	0	31	2	0	2
	PF	Mechanized paddy cultivation techniques	3	Off	26	35	61	26	35	61
	PF	Women friendly tools and equipments	1	Off	0	20	20	0	20	20
	PF	IPR in Indian agriculture	1	Off	0	30	30	0	30	30
	PF	Mechanization in agriculture	1	Off	33	0	33	0	0	0
	PF	Women friendly tools and equipments	1	Off	0	34	34	0	7	7
	PF	Crop insurance & banking scheme	2	On	0	60	60	0	60	60
	PF	Small scale processing and value addition in rice	1	On	1	29	30	1	29	30
	PF	Mechanization in agriculture	1	Off	33	0	33	0	0	0
	RY	Entrepreneurial ability for rural women	3	Off	0	65	65	0	65	65
	RY	Kantha Sticth Preparation	7	Off	0	20	20	0	20	20
	RY	Jute Handicrafts Preparation	15	Off	0	20	20	0	20	20
	EF	Women friendly tools and equipments	1	Off	0	34	34	0	7	7
	EF	Cultivation Practices of different fodder crops	1	Off	31	0	31	2	0	2
	EF	Mechanization in agriculture	1	Off	33	0	33	0	0	0

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop /	Identifi	Trai	Duration	No. of Participants	Self employed after training	Number of persons

Enterprise	ed Thrust Area	ning title*	(days)							employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Tailoring and Stitching	Tailoring and Stitching	Kantha Stictch Preparation	7	0	20	20	Individual			
Rural Crafts	Rural Crafts	Jute Handicrafts Preparation	15	0	20	20	Individual			

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of Participants										Sponsoring Agency
							Male			Female			Total				
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Disease management in composite fish culture	Composite fish culture	December, 16	1	EF	1	22	5	1	0	0	0	22	5	1	28	NABARD
2	Effects of liming at fish pond	Composite fish culture	December	1	EF	1	22	6	2	0	0	0	22	6	2	30	NABARD

3	Improved cultivation of TCB	Improved fruit cultivation	December	1	EF	1	23	8	0	0	0	0	23	8	0	31	NABARD
4	Rice cultivtion through SRI	SRI	December	1	EF	1	22	4	0	0	0	0	22	4	0	26	NABARD
5	Increasing nutrient use efficiency in rice and other crops	Nutrient management	January, 17	1	EF	1	34	0	0	0	0	0	34	0	0	34	NABARD
6	Micro irrigation system in horticulture	Water management	January, 17	1	EF	1	2	3	14	0	0	12	2	3	26	31	NABARD
7	Women friendly tools and equipments	Agriculture mechanization	January, 17	1	EF	1	0	0	0	27	4	3	27	4	3	34	NABARD

8	Pest and disease management of major vegetable	IPM	January, 17	2	EF	2	59	2	0	0	0	0	59	2	0	61	NABARD
9	Improved cultivation techniques of major vegetable crops	Vegetable cultivation	February, 17	1	EF	1	28	2	0	0	0	0	28	2	0	30	NABARD
10	Cultivation Practices of different fodder crops	Fodder crop cultivation	February	1	EF	1	29	2	0	0	0	0	29	2	0	31	NABARD
11	Mechanization in agriculture	Agriculture mechanization	February	1	EF	1	33	0	0	0	0	0	33	0	0	33	NABARD

12	Rice cultivtion through SRI	SRI	December, 16	1	PF	1	25	0	0	0	0	0	25	0	0	25	ATMA
13	Improved cultivation techniques of major vegetable crops	Vegetable cultivation	December, 16	1	PF	1	25	0	0	5	0	0	30	0	0	30	ATMA
14	Management of problematic soil	Soil management	December, 16	1	PF	1	17	2	0	0	1	0	17	3	0	20	ATMA
15	Micronutrient managaments of crops	Nutrient management	December, 16	1	PF	1	20	4	0	1	0	0	21	4	0	25	ATMA
16	Production of organic inputs at farmers level	Production of organic inputs	January, 17	1	PF	1	19	3	0	2	1	0	21	4	0	25	ATMA

17	Nursery raising techniques for vegetables	Nursery management	January, 17	1	PF	1	22	3	0	0	0	0	22	3	0	25	ATMA
18	Crop diversification through banana cultivation	Fruit cultivation	January, 17	1	PF	1	22	3	0	0	0	0	22	3	0	25	ATMA
19	Preparation of organic pesticides and its use	Preparation of organic pesticides	January, 17	1	PF	1	20	2	0	3	0	0	23	2	0	25	ATMA
20	Induced breeding of IMC	IMC cultivation	February, 17	1	PF	1	20	5	0	0	0	0	20	5	0	25	ATMA
21	Nursery pond culture and management of crops	Fish cultivation	February, 17	1	PF	1	23	2	0	0	0	0	23	2	0	25	ATMA

22	Improved culture practices of air breathing fish	Fish farming	February, 17	1	PF	1	22	0	0	3	0	0	25	0	0	25	ATMA
23	Mechanization in agriculture	Agriculture mechanization	February, 17	1	PF	1	33	0	0	0	0	0	33	0	0	33	ATMA
24	Integrated fish culture	Integrated fish culture	October, 16	4	RY	4	20	0	0	0	0	0	20	0	0	20	NFDB
25	Recent advances in aquaculture	Recent advances in aquaculture	October, 16	5	RY	5	18	0	2	0	0	0	18	0	2	20	NFDB
26	IPM in rice	IPM in rice	July, 16	1	PF	1	20	8	2	0	0	0	20	8	2	30	PPL Nabaratna

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	10	235	94	329	46	10	56	281	104	385
KisanMela	3	2540	540	3080	57	21	78	2597	561	3158
KisanGhosthi				0			0	0	0	0
Exhibition	2	2460	580	3040	65	15	80	2525	595	3120
Film Show	35	925	275	1200	45	0	45	970	275	1245
Method Demonstrations	5	102	26	128	15	8	23	117	34	151
Farmers Seminar	2	75	15	90	18	4	22	93	19	112
Workshop				0			0	0	0	0
Group meetings	7	150	34	184	12	6	18	162	40	202
Lectures delivered as resource persons	34	934	74	1008	0	0	0	934	74	1008
Advisory Services	842	1062	85	1147	0	0	0	1062	85	1147

Scientific visit to farmers field	204	1357	421	1778	0	0	0	1357	421	1778
Farmers visit to KVK	563	6572	943	7515	0	0	0	6572	943	7515
Diagnostic visits	53	37	16	53	0	0	0	37	16	53
Exposure visits	11	134	29	163	0	0	0	134	29	163
Ex-trainees Sammelan	2	50	10	60			0	50	10	60
Soil health Camp	9	256	12	268	18	0	18	274	12	286
Animal Health Camp										
Agri mobile clinic	21	526	40	566	0	0	0	526	40	566
Soil test campaigns	7	350	15	365	0	0	0	350	15	365
Farm Science Club Conveners meet	9	102	11	113	12	0	12	114	11	125
Self Help Group Conveners meetings	7	43	106	149	0	0	0	43	106	149
Mahila Mandals Conveners meetings										
Celebration of important days (Republic Day, Independence Day, World Fishery Day, etc.)	6	234	92	326	0	0	0	234	92	326
Any Other (Awareness Camp)	4	258	230	488	10	4	14	268	234	502
Total	**1836**	**18402**	**3648**	**22050**	**298**	**68**	**366**	**18700**	**3716**	**22416**

B. Other Extension activities

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Newspaper coverage	5									
Radio talks	0									
TV talks	1									
Popular articles	0									
Extension Literature	2	210	22	232	00	00	00	210	22	232
	8	210	22	232	00	00	00	210	22	232

3.5 Production and supply of Technological products

Village seed

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Paddy	MTU 7029	1500	3000000	3600
Mustard	Pusa mustard 26	600	1800000	Data to be obtained in Rabi 2017-18
Groundnut	Kadiri 6	150	600000	Yet to be harvested
Total		2250	54000000	

KVK farm

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Paddy	MTU 7029	24.5	1000000	450
Vermicompost	--	5 tonnes	--	15
Fingerling				
Vegetable seedling	Tomato, brinjal, cauliflower	65000	---	Given to farmers for demonstration
Azolla		0.15		20
Grand Total				

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Vegetable seedlings				
Cauliflower	20000			
Cabbage				
Tomato	25000			
Brinjal	20000			
Chilli				
Onion				
Others				
Fruits				
Mango				
Guava				
Lime				
Papaya				
Banana				
Others				
Ornamental plants				
Medicinal and Aromatic				
Plantation				
Spices				
Turmeric				
Tuber				
Elephant yams				
Fodder crop saplings				
Forest Species				
Others, pl.specify				
Total				

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers			
Bio-pesticide			
Bio-fungicide			
Bio Agents (Vermicompost)	5 tonnes	--	15
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)				
Grand Total				

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

Item	Title	Authors name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter	**Coastal Ecosystem: Risk Factors for Development and Threats due to Climate Change**	**H.S.Sen and Dipankar Ghorai**	Soil salinity management in agriculture (Apple publication)	
Extension Pamphlets/ literature	Azolla Production	Monica Suresh Singh	El/2016-17/1	200
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:

S. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Training	Training on preparation of Fishery projects	Dr. Golam Ziauddin, SMS, Fishery	05 days	NFDB, Hyderabad
2.	Workshop	Sensitization workshop of Animal & Fishery SMSs of Zone II at ATARI, Kolkata	Dr. Golam Ziauddin, SMS, Fishery	02 days	ATARI, KOLKATA
3.	Orientation training	Orientation training programme on, Advance Agriculture and Allied Technology in Farm Sector	Dr. Monica Suresh Singh SMS, Agricultural Extension	03 days	BCKV, Kalyani
4.	ToT	Training of trainers programme on Solanaceous crop cultivator	Dr. Subrata Sarkar, SMS (Hort.)	03 days	GBPUAT, Pantnagar
5	ToT	Training of trainers programme on Quality seed grower	Dr. D. Ghorai, SMS and PC (I/C)	03 days	NIRD, Guwahati
6	Training	Orientation programme on	Sk Golam Rasul,	03 days	BCKV,

		"Skill Development of Laboratory Work"	Prog. Asst. (Computer)		Kalyani
7	Training	Orientation programme on "Skill Development of Laboratory Work"	Mr. Sandipan Garai	03 days	BCKV, Kalyani

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

Mahadeb Porey is a rural youth from Bhratpur in Galsi I block of te district. Mahadeb is an energetic and educated (Graduate) youth and an entrepreneur of small scale and takes keen interest in learning improved production practices of crops. He is a successful groundnut seed producer and sells his produce in different groundnut growing districts of West Bengal. Of late his enthusiasm in groundnut production had dampened a bit and he was pondering to venture seed production of some other crop, owing largely to decreasing productivity, and hence profitability, as well as his not getting access to improved cultivars of groundnut.

KVK, after need assessment, found out that his nutrition management of groundnut, was imbalanced and not optimum.

Mahadeb used to use age old varieties of groundnut, like TAG 24 or AK-12-24. His nutrition management for the crop was 35:40:130:20 N:P:K:S.

Mahadev was provided with 15 kg seed kernel (for 0.33 acre) and, after testing of his field's soil, was advised to give 25:50:100:60 N:P:K:S with liming and about 6-8 tonnes of well decomposed FYM or half the amount of vermicompost which he produces on his own for better result. He was also advised to use micronutrient mixture (Agromin) for making up of deficient micronutrients in soil, especially Zn and B. The additional requirement for sulphur and micronutrient mixture was provided to him.

Now, aided by the KVK for 2 years, he has successfully established himself as a seed grower for groundnut. He, apart from meeting the seed requirement of his own village, sells seed to farmers of other districts, like Hoogly and Nadia, as well.

He has also shown the groundnut farmers of his village how to make use of the crop residue of groundnut by converting it into vermicompost. He is being used as a master trainer by the KVK for groundnut cultivation.

Mahadeb Porey, Bharatpur, Galsi I
Ph. No. 9732914451

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

None

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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

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

1. PRA: A comprehensive PRA was conducted in the new villages to know the problem faced by the farmers and to study needs of the farmers
2. Sctructured interview schedule: An interview schedule was prepared based on the district need and the farmers were interviewed personally to know the training need of the farmers. Also in the schedule there was scope that farmers can fill other need felt by them which were not mentioned in schedule.
3. Focused group discussion: it was carried out in group of 10-15 farmers who were asked what are the problems faced by them and on what aspect training is required by them.

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

Sl. No	Name of the Equipment	Qty.
1	Flame photometer	One
2	Spectrophotometer	One
3	Shaker	One
4	Hot air oven	One
5	Hot plate	One
6	Glass distillation unit	One
7	Conductivity bridge	One
8	pH meter	One
9	Electronic balance	Two
20	Grinder	One
11	Kjeldahl N analyser	One
12	Mridaparikshak	One
13	Atomic absorption spectrophotometer	One

3.11.b. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
FLD field samples	145	72	8	--
OFT field samples	15	12	3	
Farmers field samples	725	675	21	
Total	**885**	**759**	**32**	

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

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
4	3	--	260	5

3.13 Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
SANSAD MELA	1	550	
Farmers training	4	125	Different ones
TV show	1		
Farmer-Scientist interaction	2	95	

3.14. RAWE programme - is KVK involved?

No of student/ARS trained	No of days stayed

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
13.02.17	Shri Radha Mohan Singh, Union Minister, Min. of Agriculture & FW	Visit the stall of KVK at CRIJAF during KVK inauguration
13.01.17	Mr. Dilip Ghosh, MP	To visit stall of KVK at Sansad Mela
13.02.17	Dr. A. K.Singh, DDG, Extension, ICAR	Visit the stall of KVK at CRIJAF during KVK inauguration
10.03.17	Dr. P. K. Ghosh, Director, ICAR-IGFRI, Jhansi	Discussion regading NIFTD prog
03.11.16	Shri Debu Tudu, Zilla Sabhadhipati	Farmer-Scientist interaction at Burdwan organized by KVK

4.0 IMPACT

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

KVK took up impact assessment study in two villages where KVK has been working over 5 years, namely Keten in Kanksa block and Jagulipara in Galsi-I block. The detailed study of the two villages are annexed.

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

Horizontal spread of technologies	
Technology	Horizontal spread
Sulfur and boron nutrition in mustard	The soils of the district are largely deficient in two essential nutrients required for mustard, namely, Sulfur and Boron. KVK after successfully establishing the fact that supplemenatation of sulphur and boron can augment productivity significantly through OFT, applied the technology in CFLD on mustard during Rabi 2015 -16. Farmers were greatly encouraged by the results and as a result of which the technology has spreaded to 5 blocks of the district, namely Kalna, Purbasthali, Ausgram, Galsi I and Galsi II.
Seed treatment for crops	Farmers in this region were not used to treat seeds of different crops while sowing before KVK intervention. After intervention of KVK, not only the farmers in the adopted village but farmers in the adjoining villages as well are now practicing seed treatment for crops like paddy, jute, pulses, potato etc. The technology has spread to as much as 18 blocks of the district.
Azolla production for livestock feeding and green manuring	i) A low cost azolla production unit was established in KVK farm and maintained (*Azolla microphylla*) throughout the year. iii) In our adopted villages, 25 production units were set up for multipurpose use specially as livestock and poultry feed. iv)In this year, Block Livestock Development Officer of Galsi-I indented the culture and technical know-how for 50 demonstrations in his block. v) A training programme was conducted on the theme area of azolla production and its use as green manure in rice field in collaboration with ICAR-IARI, New Delhi.

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

Impacts of the different efforts by the KVK during 2016-17 which are hereunder:

1. Replacement of older varieties of the crops like jute, Mustard etc by Improved varieties of CO 58, JRO 8432, JRO 204 and Pusa Mustard 26 respectively
2. System of Rice Intensification – better yield, less labour & cost effective - Wide coverage of SRI technology
3. Integrated Farming System– More return from per unit land -Widespread dissemination of Integrated Farming System approach
4. Seed replacement rate enhanced and Seed treatment of different crops has been come in practice
5. Use of biofertilizer and biopesticide has increased
6. Crop diversification i.e. introduction of jute, vegetables in the cropping system
7. Cultivation of off season vegetable – came into practice
8. Soil test based fertilizer application – came into practice

9. Preparation of Jute handicraft – Six of the trainees (Five female and one male) are generating income through handicraft preparation
10. Preparation of Kantha Stitch - Five of the trainees (female) are supplementing family income
11. Vermicompost production – Eight village level production units have been formed
12. Self help group – Twelve (12) SHGs have been formed and actively working in collaboration with KVK and NABARD
13. Seed Village Programme initiated in different blocks of Burdwan which covers around 300 ha area under paddy seed cultivation.

4.4 Details of innovations recorded by the KVK

Thematic area	Farm mechanization
Name of the Innovation	Hand driven zero till
Details of Innovator	Dinabandhu Pal, Warispur, Ausgram II
Back ground of innovation	The area of Warispur is a relatively low lying area by the side of river Khari where during heavy rain field inundate and paddy crop is largely damaged. Shri Pal realized that if he could sow paddy a bit early then crop stand will be enough not to be damaged by flooding. He has seen Zero-till seed cum fertilizer drill working in one training programme he attended in KVK. Since, he could not get access to one such machine in his nearby area, he went on to device one such machine which can be nahd driven as well as bullock driven.
Technology details	Shri Pal deviced the Zero till drill in such a way that it can be operated by man or can be bullock driven. Apart from that he fitted the machine with nails that can help in ridge making in potato cultivation. The machine is very user friendly and costs only around Rs. 700/-
Practical utility of innovation	Using the same machine Shri Pal used to cultivate paddy in about 6 bighas of land that he has and has been successful in preventing loss due to flooding by early cultivation.

4.5 Details of entrepreneurship development

Entrepreneurship 1

Entrepreneurship development	
Name of the enterprise	Vermiculture
Name & complete address of the entrepreneur	Chowdhury Amirul Haque, Jagulipara Block: Galsi-I
Intervention of KVK with quantitative data support:	In view of the deteriorating soil quality, application of good quality organic matter is the need of the hour. KVK intervened through hand on training on vermicompost production in the adopted villages. The above mentioned farmer has developed one vermicompost unit in his backyard with a capacity of roundabout 3 tonne. The vermicompost he produces is being used in his farm of about 3 ha. Apart from this he has developed expertise in vermiculture as well. He regularly sell the earthworm to various public ad private bodies, like NABARD; dept. of agriculture, Burdwan; NGOs whereby he earns substantial additional income to run the enterprise profitably.
Time line of the entrepreneurship development	2008: Obtained training from KVK. Got exposure to some profitable vermicompost production agencies. 2009: Constructed one vermicompost unit with subsidized funding from RKVY through KVK. 2012: Apart from regularly using vermicompost produced in his fields, got

	expertise in vermiculture. 2013: Generates an additional income in the range of 4200 -8600/month from selling of earthworms. 2014: He is being regularly hired by various private and public bodies as expert in the field. 2015: Apart from regularly using vermicompost produced in his fields, generates an additional income in the range of 5200 -7600/month from selling of earthworms. 2016: His income has raised to 9500/- per month
Technical Components of the Enterprise	--
Status of entrepreneur before and after the enterprise	Generates an additional income in the range of 4200 -8600/month from selling of earthworms, apart from the remuneration received as expert to different fora.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	The enterprise is extremely viable economically.
Horizontal spread of enterprise	Following his suite, 17 other rural youths in 5 villages under KVK operational area have started vermiculture.

Entrepreneurship 2

Entrepreneurship development	
Name of the enterprise	Kantha stitch
Name & complete address of the entrepreneur	Aminara Bagam Atapara, Galsi – I Burdwan
Intervention of KVK with quantitative data support:	KVK imparted 7 days training on preparing various kantha stitch. Also KVK has tried to explosure various selling channels for marketing her products. KVK also helped her for procuring loan from bank.
Time line of the entrepreneurship development	She got training in September, 2013. After that she motivated 5 more girls to work for her. In December she started to prepare various katha stich products like kurta, saree, purses etc.
Technical Components of the Enterprise	The enterprise is household enterprise where self labour is the critical input.
Status of entrepreneur before and after the enterprise	As the enterprise is in initial stage she gets a net profit of 2-3 thousand rupees every month. Before then her primary source of family income was from farming which her husband it. She herself didn't contribute to family income.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	The business is gradually growing. She gets her raw materials from bolpur which is nearby Burdwan and is very famous for Kantha Stitch. She has employed five local girls to work for her. Sanjoy Kantha Stich from Brahamandihi (Bhedia) purchase her finished products. KVK also herped her to sell her product in Mati Utsav-15 and Technology Week-15 by keeping it in KVKs stall
Horizontal spread of enterprise	No horizontal spread till now

4.6 Any other initiative taken by the KVK

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	**Nature of linkage**
Directorate of Agriculture, Govt. of W.B.	▪ Input supply for Seed village program ▪ Supply of new variety pulse and oil seed
Animal Resource Development Department, Govt. of W.B.	• Vaccination camp
Office of Assistant Director of Fisheries, Meen Bhawan, Burdwan	• Fish fingerlings supply • Training on fish culture, management • Awareness camp on subsidized loan scheme, fisherman identity card, Formation of Self help group, Fish production group, cooperative societies etc.
ATMA	• Governing body and management committee member • Collaborative programmes:- **Trainings – 20 nos.** **Demonstration – 10 nos**. **Trials - 03 nos.**
RKVY	• Governing body and management committee member
NREGS	Convergence programmes were • Training of NREGA technical staff on Vermi-compost, Rainwater harvesting, horticulture, Composite fish culture, Integrated farming • Field demonstrations by KVKs on NREGA works on IMC culture, Duck rearing, integrated farming (Fish-livestock- horticulture) • Skill development of NREGA workers under SGSY through Preparation of jute handicrafts, kantha-stitch.
National Seed Corporation, State Seed Corporation,	Foundation and certified paddy and potato, pulses and oil seed etc.
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur	• Time to time planning execution • Planting material collection • Bio fertilizers collection • Resource persons
Vishwabharati University	• Trainings / demonstrations
West Bengal University of Animal and Fishery Science	Feed and milk sample analysis
Regional Station for Forage Production Demonstration, Kalyani	Training and fodder seed collection
CIFA, Kalyani	Exposure visit
State Agricultural Management Extension Training Institute, Narendrapur	Training on SREP preparation for ATMA programme
NABARD, CBI, SBI & RRBs	Farmers; club, Credit facility for farmers

,Burdwan Region	
NGOs like Men at Work, Ujjiban, SSSNS, Meghdhoot, Mangal Chandi Self help group	Farmers' tour , Training etc

5.2. List of special programmes undertaken during 2016-17 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology transfer through Training and demonstration	Training of specific need and demonstration of technology at farmers field	Nov, 2016	ATMA	250000.00
Technology transfer through Training and demonstration	Knowledge exchange	December, 2016	NABARD	400000.00

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.									
2.									
3.									
4.									
5.									
6.									
7.									
	Total								

6.2 Performance of instructional farm (Crops)

Name Of the crop	Date of sowing/ transplanting	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals (paddy)	June 2016	December, 2016	5.0	MTU 7029	Foundation seed	24.5 q	400,000	1000000	
Banana	July 2016	--	1 bigha	Grand Naine	Bunch	150	10000	15000	

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

Sl. No.	Name of the Product	Qty (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	5 tonnes	10000	--	Used in KVK farm land for production of seed, seedlings, banana etc.

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
	Fish fingerling	IMC	Fry and Fingerling	128 kg	4000	10000	-

6.5 Utilization of hostel facilities

Accommodation available (No. of beds): 20 Nos.

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 16	--	--	--
May 16	22	110 (5)	--
June16	--	--	--
July16	--	--	--
August 16	7	14 (2)	--
September 16	38	266 (7)	--
October 16	--	--	--
November 16	22	44 (2)	--
December 16	15	45 (3)	-
January 17	49	98 (2)	-
February 17	-	-	-
March 2017	5	100 (20)	-

(For whole of the year)

6.5 Utilization of staff quarters

Whether staff quarters has been completed: Completed

No. of staff quarters: 06 nos.

Handover of quarter on 31.01.2013 and completion of road and electrical work on 31.03.13

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
From April 2013 onwards						

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	State Bank of India Railway Station Branch, Barrackpore	Barrackpore	10391779335
With KVK	State Bank of India Mankar	Mankar	30466431682

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

Item	Released by ICAR		Expenditure		Unspent balance as on 31.03.17
	Kharif	Rabi	Kharif	Rabi	
Groundnut	210000		175485		34515
Mustard		210000		43939	166061
Sesame		150000		113000	37000

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

Item	Released by ICAR		Expenditure		Unspent balance as on 31.03.17
	Kharif	Rabi	Kharif	Rabi	
Lentil		210000		125620	84380
Greengram		150000		101424	48576

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

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

7.5 Utilization of KVK funds during the year 2016-17 (Not audited)

Sl. No.	Head	Budget Sanction and Released (Rs. in lac)	Expenditure (Rs.)
A. RECURRING			
1.	**Pay and Allowances**	74.00	74,18,841.00
2.	**T. A**.	01.70	1,58,062.00
3.	**HRD**	00.50	NIL
4.	**Contingencies**		
a.	Stationary, telephone, postage and other office charges		
b.	POL, repair of vehicle, tractors and equipment		
c.	Training of farmers		
d.	Training materials (posters, charts, demonstration materials etc.)	14.00	7,90,899.00
e.	Training of extension functionaries		
f.	Training of Rural youth		
g.	Frontline demonstration other than oilseeds and pulses		
h.	On-farm testing		
i.	Maintenance of building		
5.	**Tribal Sub Plan (TSP)**	03.00	3,81,725.00
	TOTAL (A)	**93.20**	**87,49,527.00**
B. NON-RECURRING			
1.	Works	--	--
2.	Vehicle (Motorcycle 2 Nos.)	--	--
3.	Equipment, Furniture and Furnishing (Biomatric)	--	--
4.	Soil & Water Testing Equipments	--	--
5.	Library	--	--
	TOTAL (B)	--	--
	GRAND TOTAL (A+B)	**93.20**	**87,49,527.00**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2014-15	2,71,615.00	7,73,310.00	8,91,760.00	1,53,165.00
2015-16	1,53,165.00	8,77,375.00	8,90,977.00	1,39,563.00
2016-17	1,39,563.00	9,61,400.00	6,06,847.00	4,94,116.00 + 1000000 (kind)

7.6. (i) Number of SHGs formed by KVKs : 10

(ii) association of KVKs with SHGs formed by other organizations indicating the area of SHG activities: 79

Details of marketing channels created for the SHGs: KVK mobilized the marketing channel for the SHG, especially women SHGs, associated with the production of rural and other handicrafts, by linking them with yearly Krishi melas, rural fairs and town based cooperatives dealing with selling of crafts etc. KVK has also connected SHG doing katha stich with traders from Bolpur.

KVK has created financial opportunity for many of the SHGs formed by linking them with NABARD, rural banks etc.

7.8. Special programme on Food and Nutrition : NA

7.9. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	Both
Name of activity	Number of activity	Season	With line department	With ATMA	Both
Seed production	01	Kharif 2016	Dept. of Agriculture, West Bengal	-	-
Kisan Sammelan	01	Rabi, 2016	Dept. of Agriculture, West Bengal	-	-
SAC	01	Kharif, 2015	All line dept., west Bengal	-	-
Farmers training	12	Year round	All line dept., west Bengal		
Exposure Visits	02	Rabi, 2016	All line dept., west Bengal	With ATMA funding	
Farmers scientist interaction	01	Rabi, 2016	Dept. of Agriculture, West Bengal	With ATMA funding	

8. Initiative taken towards organic farming by the KVK (area brought under organic farming, crops cultivated through organic means and other relevant information)

KVK Burdwan has collaborated with Center for Organic Farming, Lucknow to initiate organic farming in Sansad Adarsh Gram, Sidhabari, in salanpur bLock. KVK has thoroughly trained the villagers in establishing an organic farm in an area on 2 acre. Vegetables like pkra, brinjal, tomato are being grown in the vegetable garden.

9. Other information

9.1. Prevalent diseases in Livestock/Crops/Fishery

Name of the disease	Crop/animal	Date of outbreak	Number of death/ % commodity loss	Number of animals vaccinated
Late blight	Potato	09.1.17	9%	
PPR	Goat	22.7.16	200 nos	300 goats are vaccinated in nearby villages with help of Prani Mitra

9.2. Nehru Yuva Kendra (NYK) Training

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

9.3. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.4.a 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
49	435	132232	15300	0	99174	3685	7564	14073

9.4.b Information in uploading KVK Portal by KVKs during 2016-17

Sr. No.	*Name of item/ events/ component*	*Uploading status (Yes/No)*	*No. uploaded*	*Remarks, if any*
1	KVK Profile			
2	Employee details	Yes	11	
3	Post	Yes	9	
4	Finance	Yes	3	
5	Soil Health Card	Yes	1	
6	Appliance	No	0	
7	Crops	Yes	3	
8	Resources	Yes	6	
9	Fish	Yes	3	
10	Past events	Yes	38	
11	Future/ upcoming events	Yes	5	
12	Facilities available at KVKs	Yes	5	
13	Package and practices			
14	Crop	Yes	3	
15	Livestock	Yes	3	
16	Fishery	Yes	1	
17	Horticulture	Yes	0	
18	CFLD on Pulses			
19	2016-17	Yes	3	
20	2015-16	Yes	3	
21	CFLD Oilseeds			

22	2016-17	Yes	3	
23	2015-16	Yes	3	

9.5 Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
Year round	Cleaning of office premises, surrounding, KVK instruction Farm , Administrative building, Farmers Hostel, demonstration units, residential quarters, village road and surrounding, cattleshed and goatery, etc.

9.6 Observation of National Science day

Date of Observation	Activities undertaken
NA	

9. 7.Programme with Seema Suraksha Bal (BSF)

Title of Programme	Date	No. of participants
NA		

9.8 Agriculture Knowledge in rural school:

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Bud Bud Hindi School	22.11.2016	Kitchen gardening, crop residue utilization, resource conservation	Audio-visual mode

9.9. 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	Burdwan	05.12.2016	250	10	Shri Banamali Hazra, Former MLA, Bhatar and presently Director, Agricultural Cooperative and Rural Development Bank, Burdwan	Rabi Sammelan –cum- World Soil Day was organized by KVK Burdwan on 05.12.16 at Bengal Rice Mill, Pursa, Galsi – I block of the district to emphasize the need for soil health management and upkeeping of soil quality for sustainable production of food in the future. Nearly 250 farmers from different parts of the district participated in the event. The CHIEF GUEST during the occasion was Shri Banamali Hazra, Former MLA, Bhatar and presently Director, Agricultural Cooperative and Rural Development Bank, Burdwan. GUEST OF HONOUR in the occasion was Prof. Sanjay Kumar Dutta Ray, Associate Dean, Bidhan Chandra Krishi Viswavidyalaya, Burdwan campus. Other resource persons present were Dr. Partha Ghosh and Dr. Milan Kr. Mandal, Asst. Directors of Agriculture, Burdwan and SMSs of KVK Burdwan. Shri Banamali Hazra pointed to the fact that the second green revolution has to start from the eastern region and as such farmers in the region has to be proactive to maintain soil quality in order to achieve the desired.

9.10. Details of Pradhan Mantri Fasal Bima Yojana programme organized

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		
West Bengal	Burdwan	05.04.2016	75	6	No	A one day farmers' fair on Pradhan Mantri Fasal Bima Yojna was organized by KVK Burdwan on 5th April, 2016 at 10.00 am. The programme started with welcome address by Dr. M. S. Singh, SMS (Ag. Extn.). She also gave a lecture on PMFBY. After that Dr. D. Ghorai, I/C PC gave brief information regarding the programme and talked on the importance organic farming and production of vermicompost. Mr. J. Chatterjee in his lecture emphasized the importance of soil testing and soil health card. Mr. S. Karfa emphasized on importance of crop insurance and gave brief on RKBY. Dr. S. Biswas put emphasize on use of organic pesticide instead of chemical pesticide. Pertinent video on PMFBY was shown to the farmers. One minute video of the programme was prepared and is attached along with this report.

9.11. Contingent crop planning

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

9.12. 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	30 days	**155034**	**NIL**

9.13. Community Radio Station – **Not Applicable**

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

Agriculture:

1. Dinabandhu Pal
2. Mahadeb Porey
3. Prabir Samanta
4. Gopi Mohan Ghosh
5. Basudeb Sutradhar

Horticlture:

1. Bapi Sk
2. Sk. Shorabuddin

Fisheries:

1. Apu Layak

9.15 HRD programmes organized by the KVK

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme

9.16. Revenue generation:

SL.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Paddy seed – 226 q	9.07 lakh	
2.	Banana – 150 bunch	0.15 lakh	
3.	Fish fingerling	0.10 lakh	
4.	Other farm produce	0.15 lakh	
5.	Goat kid – 10 nos	0.14 lakh	
	TOTAL	9.61 lakh	

9.17. Resource Generation:

SL.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1.	Technology transfer	To transfer improved technologies through training, demonstration, farmer-scientist interaction and exposure visit	ATMA, Burdwan	**250000**	--
	Technology transfer	To transfer improved technologies through training, demonstration, farmer-scientist interaction and exposure visit	NABARD, Burdwan	**400000**	--
	Technology transfer in fisheries	Transfer improved aquaculture techniques through training	NFDB		

9. 18. Performance of Automatic Weather Station in KVK

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

10. Details of 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	
Abhirampur	Ausgram I	180	170	350	160	140	300	85
Anandabazar	Ausgrm I	145	130	275	130	120	250	91
Kondaipur	Galsi I	60	65	125	60	60	120	96

Physical achievements under TSP during 2016-17

Programmes	**Physical achievements 2016-17**
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	Weeder: 6 Poly vermin pit: 10 Poly azolla pit: 5
On-farm trials (Number)	--
Frontline demonstrations (Number)	Mustard: 25 Lentil: 19
Farmers training (in lakh)	0.027
Extension personnel training (in lakh)	--
Participants in extension activities (in lakh)	
Seed production (in tonnes)	10
Planting material production (in lakh)	--
Livestock strains and fingerlings production (in lakh)	Fingerling:
Soil, water, plant, manures samples testing (in lakh)	76
Provision of mobile agro – advisory to farmers (in lakh)	0.0055
Others (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	Swachhta campaign: 4 Soil health campaign: 3

Fund received under TSP in 2016-17: 3.0lakh

11. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2016-17
(**Applicable for KVKs identified under NICRA)**

Natural Resource Management

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

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

12. Information on NFDB Funded Capacity building programme during 2016-17

Sl. No.	Name of capacity building training programme	Duration (days)	Date of programme	Fund (Rs.) sanctioned by NFDB, Hyderabad	No. of Farmers trained	Remarks, if any
1	Recent trends in Aquaculture	05	14-19 October, 2016	41,000.00	20	Nil
2	Training on Ingrated Fish culture	04	20-24 October, 2016	36,000.00	20	Nil
Total		09	-	77,000.00	40	Nil

13. 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	

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

14. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

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

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

The KVK has conducted two skill development training programmes under PMKVY on the following subjects;

1. Quality seed grower
2. Solanaceous crop cultivator

The trainings were each of 200 hours of duration and total no of trainied and asseseed farmers/rural youths were 37.

The training on Quality seed grower was conduted during Feb – March, 2017 where 20 candidated were trained on various topics on seed production as follows,

- Seed production of field crops like rice, wheat
- Seed production of pulse and oilseed crops
- Hybrid seed production
- Nursery management of crops
- Pest and disease management for all crops
- Good management practices for seed crop production
- Certification protocols for seed production
- Hand on trainings on various aspects like soil collection and testing, seed purity testing, seed treatment, etc.
- Post harvest management and handling of seed
- Exposure visit in to various relevant public and private institutions

All 20 participants were successfully assessed on 23.03.17.

The training on Solanaceous crop cultivator was conduted during Feb – March, 2017 where 20 candidated were trained on various topics as follows,

- Nursery management of crops
- Pest and disease management for all crops
- Good management practices for crop production
- Hand on trainings on various aspects like soil collection and testing, seed purity testing, seed treatment, etc.
- Post harvest management and handling of crop
- Exposure visit in to various relevant public and private institutions

17 participants were successfully assessed on 15.03.17.

16. List of 5000 farmers with mobile number and Aadhar card number (only soft copy to be enclosed)

List of 3500 farmers collected thus far will be provided

17. Number of commodity based organizations/ farmers' cooperative society formed during last one year

(Details of the group/society may be indicated)

18. Any other programme organized by KVK not covered above

Annexure I

Proceedings of the Thirteen Scientific Advisory Committee Meeting held on September 27, 2016

The XIIIth meeting of Scientific Advisory Committee (SAC) for KVK, Burdwan was held at KVK on September 27th, 2016. The meeting was conducted under the Chairmanship of Dr. P.G. Karmarkar, Director, CRIJAF. Valued members present in the meeting were, Dr. P.P Pal, Pr. Scientist, ATARI, Kolkata, Dr M. Ali Deputy Director of Extension Education, BCKV, Dr. D. C.. Nayak, Pr. Scientist, NBSS&LUP, Mr. Gour Sinha, DDA and PD, ATMA, Dr. Bikash Rana, District Veterinary Officer, Burdwan, Mr. Pradip Mandal, DFO, Burdwan, Mr. Debnarayan Dutta, AFO, Burdwan, AGM-DD, NABARD, Burdwan, five representatives of practicing farmers and one representative of farm women. Among the Special Invitees present were Dr. J. Mitra, Head, Crop Improvement, CRIJAF, Dr. S. Satpathy, Head, Crop Protection and Headquarter Incharge for KVK, CRIJAF, Dr. D. K. Kundu, Head, Crop Production, CRIJA, Dr. Subrata Biswas, Scientist-in-charge, CSRSJAF, Bud Bud.

Dr. D. Ghorai, Programme Coordinator (I/C) of KVK formally welcomed all the delegates. Chairman, in his opening remarks, informed the house that another KVK is in the pipeline under the control of CRIJAF. He urged upon the KVK to put even more emphasis on jute, mandate crop of the Institute, so that improved production technologies on jute can be followed by most of the farmers of the district.

With the permission of Chair, Dr. Ghorai presented the action taken report on the recommendations given during the previous SAC meeting. This was followed by presentation of KVKs Progress Report of 2015-16 and Action Plan for the year 2016-17.

The august house critically reviewed the performance of the KVK and many suggestions were given to improve upon the activities as well as documentation of activities. These are as below,

- Action taken report must be quantified with facts and figures.
- Village seed production should be highlighted

- Since there is less restriction on composition of SAC, number of farming community participants may be increased and farmers on whose fields FLDs/OFTs were conducted may be invited.
- Fibre quality/grade assessment may be done in OFTs on jute.
- Technologies those are validated must be given to line departments for wider dissemination.
- Climate resilient rice varieties should be demonstrated in the western belt of the district.
- ADA, Khandaghosh may be conducted for improved lentil varieties those are less prone to wilt.
- In the proposed OFT on lentil, seed treatment with bio-control agents may be included.
- In the OFT on mustard, Bullet variety should not be taken up. AICRP on mustard should be contacted for improved mustard varieties.
- In the OFT on okra, YVMV resistant varieties, like Parvani Kranti, should be used.
- Title of the OFT on fishery may be changed keeping in view the technologies to be assessed.
- Keeping in view the milling difficulties faced by farmers who are producing fine rice, CIAE Bhopal should be contacted for suitable milling machine.
- Fish farmers' cooperative should be formed in collaboration with state department.
- Animal health camps should be conducted in collaboration with line departments, ICAR institutes like IVRI, NDRI

Dr. P. P. Pal, Pr. Scientist, ATARI, Kolkata in his remarks urged upon the KVK for more cohesion among the SMSs of KVK as well as with the line departments so that more meaningful impact can be inflicted.

Dr. M. Ali, DEE, BCKV urged upon the KVK for more linkage with the line departments and universities for technology backup and called for more convergence of activities of KVK and ATMA.

Dr. J Mitra, Head, Crop Improvement, CRIJAF pointed out that KVK should conduct more trainings on diversified use of jute. He observed that women participation in the ongoing activities of KVK need to be more emphasized. He also urged upon the KVK that changes in social parameters of farmers, especially jute farmers, may be periodically monitored for following up the activities properly.

Dr S. Satpathy, Head, Crop Protection, CRIJAF suggested KVK official to take feed back of farmers while conducting demonstration and training. He also pointed out periodic updation of website and uploading of as much information as possible for benefit of all stakeholders. He stressed on the point that to make agriculture profitable apiary and gherkin cultivation should be promoted among farmers. He further was of opinion that to increase outreach of KVK, master trainers should be developed and training should be done through master trainers. As such he stressed upon off campus trainings where master trainers can train the practicing farmers.

Dr. D. K. Kundu was of the opinion that impact of climate change on cropping system should be studies. He asked the KVK to take up demonstration on in situ jute retting using polythene sheets in fields itself and integrated rice cum vegetable cultivation.

Mr. Gour Sinha, DDA and PD, ATMA, Burdwan opined that climate resilient rice varieties should be demonstrated in the western part of the district where the climate is more extreme. He informed the house that due to paucity of fund in ATMA, funding for KVK activities could not be done earlier adding that if the amount they have released in 2016-17 be spent and UC is given, further fund can be released.

Dr. Bikash Rana, District Veterinary Officer, Burdwan assured the KVK of full support for animal science activities of the KVK, in absentia of SMS (Animal Sc.) and urged upon on conducting collaborative vaccination camps.

Mr. Pradip Mandal, District Fishery Officer (Cooperative), Burdwan remarked that fish farmers' cooperatives should be established by KVK and wherever their support is needed would be extended fully.

The farmers representatives informed the house about different activities being done by the KVK for their benefits and the profits they reaped through the interventions

given by KVK. However, they remarked that the critical inputs, like seed, should be given on time for timely cultivation of the crops.

Following are the salient recommendations given by the committee,

- Action taken report must be quantified with facts and figure
- Importance on village seed production must be given
- Fiber quality should be assessed for OFT on jute retting
- Seed treatment with biocontrol agent should be done instead of spraying
- Selection of mustard varieties for OFT should be recommended by ICAR/University or state department
- Yellow vein mosaic virus resistant varieties (Parbhani Kranti) should be taken for OFT on okra
- Complete package of practice for any technology should be given to line departments
- More convergence work should be undertaken with ATMA
- Utilization of jute retting ponds for fisheries should be taken up
- Training on fish cooperative formation should be given by KVK
- Training in diversified use of jute should be given
- Feedback should be documented for training and demonstration
- Study should be done on problems faced in implementing cluster demonstration
- Periodic updating of KVK website
- Apiary and Gherkin should be introduced
- Training of farmers should be done through master trainer farmers
- Impact assessment of KVK should be done for last 10 years

List of participants:

Sl. No.	Name	Status in SAC	Designation & Address
Chairman and Members			
1.	Dr. P.G. Karmakar	Chairman	Director, ICAR-CRIJAF, Barrackpore
2.	Dr. P. P. Pal	Member	Pr. Scientist, ICAR-ATARI, Kolkata
3.	Dr. M. Ali	Member	DEE, BCKV
4.	Dr. D. C. Nayak	Member	Head, NBSS & LUP, Kolkata
5.	Mr. Gour Sinha	Member	DDA and PD, ATMA
6.	Mr. Partha Mandal	Member	DDM, Nabard
7.	Dr. Bikash Rana	Member	DVO, Burdwan
8.	Mr. Pradip Mandal	Member	DFO (Cooperative), Burdwan
9.	Mr. D. Dutta	Member	AFO (Burdwan)
11.	Sk. Amir Md	Member	Progressive Farmer, Atpara, Galsi I
12.	Sk. Janab Ali	Member	Progressive Farmer, Raipur, Galsi I
13.	Bapi Sk.	Member	Progressive Farmer, Mirjapur, Kalna - I
14.	Sk. Chandan	Member	Progressive Farmer, Gholda, Bhatar
15.	Shri Bapi Hazra	Member	Progressive Farmer, Bhatar
16.	Nurjahan Khatun	Member	Farm women representative, Kasba, Galsi I
17.	Dr. D. Ghorai	Member Seecretary	I/C PC and SMS
Special invitees and other invitees			
18.	Dr. J. Mitra	Special invitees	Head, Crop Improvement, ICAR-CRIJAF
19.	Dr. D. K. Kundu	Special invitees	Head, Crop Production, ICAR-CRIJAF
20.	Dr. S. Satpathy	Special invitees	Head, Crop. Protection, ICAR-CRIJAF
21.	Dr. S. Biswas	Special invitees	Scientist In-charge, CSRSJAF, Bud Bud
22.	Dr. G. Ziauddin	Invitee	SMS (Fish. sc.), KVK Burdwan
22.	Dr. Subrata Sarkar	Invitee	SMS (Hort.), KVK Burdwan
23.	Dr. M. S.Singh	Invitee	SMS (Ag. Extn), KVK Burdwan
24.	Sk. Golam Rasul	Invitee	Prog. Asstt. (Comp.) , KVK Burdwan
25.	Mr. Sandipan Garai	Invitee	Programme Assistant, KVK Burdwan

Annexure II

Impact assessment of KVK activities in Jagulipara village

Table IA: Distribution of respondents on basis of sex

Category	No	%
Male	21	84.00
Female	4	16.00
	25	100.00

Table IIA : Distribution of respondents on basis of Age

Category	No	%
31 and below	3	12.00
32-50	17	68.00
51 and above	5	30.00
	25	100.00

Table IIIA : Distribution of respondents on basis of education

Category	No	%
Illiterate	0	0.00
Primary	16	64.00
Secondary	7	28.00
Higher secondary	1	4.00
Degree	1	4.00
	25	100.00

Table IVA : Distribution of respondents on basis of family size

Category	No	%
3 and below	4	16.00
4-6	15	60.00
7 and above	6	24.00
	25	100.00

Table VA : Distribution of respondents on basis of land holding

Category	No	%
Landless	3	12.00
Marginal (<1ha)	13	52.00
Small (1-2 ha)	4	16.00
Semi- medium (2-4 ha)	5	20.00
Medium (4-10 ha)	0	0.00
Large (>10 ha)	0	0.00
	25	100.00

Table VIA: Distribution of respondents on basis of following attributes

Type of house owned	Kaccha House		Pacca House		Total	
	No	%	No	%	No	%
	9		16			100.00
Particulars	Yes		No		Total	
	No	%	No	%	No	%
Availability of Pond	12	48.00	13	52.00	25	100.00
Availability of horticultural garden	15	60.00	10	40.00	25	100.00
Availability of Cattle	18	72.00	7	28.00	25	100.00
Availability of Paddy Thresher	17	68.00	8	32.00	25	100.00
Availability of Pump set	17	68.00	8	32.00	25	100.00
Availability of Bicycle	21	84.00	4	16.00	25	100.00
Availability of of Motor bike	14	56.00	11	44.00	25	100.00
Availability of radio set	3	12.00	22	88.00	25	100.00
Availability of TV	23	92.00	2	8.00	25	100.00
Availability of mobile	25	100.00	0	0.00	25	100.00
Availability of Sprayers	20	80.00	5	20.00	25	100.00

Table VIIA: Distribution of respondents on basis of Frequency of meeting with KVK

Category	No	%
Daily	0	0.00
Weekly	7	28.00
Monthly	18	72.00
Quarterly	0	0.00
Once in season	0	0.00
	25	100.00

Table VIIIA: Sources of information

Source	Attribute (%)				
	Reliability	Regularity	Quality	Relevance	Timeliness
KVK	100	100	100	100	100
Neighbour/Friends	92	56	54	72	100
Relative	92	48	56	60	56
ADO/ ADA	96	92	92	84	92
TV	72	44	68	52	28

Table IXA: Cropping pattern

Crop	Before KVK			After KVK		
	Area (ha)	Area under improved varieties	Yield/ ha	Area (ha)	Area under improved varieties	Yield/ ha
Paddy	360	-	45-50q	360	50	60-70 q
Mustard	27	-	8-9 q	30	15	11q
Onion				15	15	60q
Tomato				7	7	230q
Brinjal				3	3	226q
Tissue Cultured Banana	1	-	400q	1.5	1.5	760q
Fodder				2	2	213q

Table XA: Impact of FLD

Demonstrated technology	Crop	Productivity			No of Beneficiary	% change			% of adoption	Impact at farm (%)	
		CP	Demo	% change		Knowledge	Skill	Attitude		Yield	Income
Production technology of variety B – 9	Mustard	10.2 (q/ha)	11.3 (q/ha)	11	30	78	69	61	48	11	12
IPM	Mustard	10.25	13.75	34.20	5	39	26	19	23	34.20	24.51
Package demonstration of MTU-7029	Paddy	40.85	44.26	8	7	87	85	85	100	8	11
SRI	Paddy	53.6	71.6	34	15	48	23	24	34	34	18.97
Late blight disease management	Potato	250	280	12	10	65	62	58	43	7	11.81
Fodder Production	Ricebean (Bidhan 1)	187.4	232	23.7	5	78	72	34	16	23.7	15.4
Component demonstration	Brinjal	213.7	226.5	6	8	44	38	31	13	8	12
Pheromone Trap	Brinjal	231	246	6.7	6	56	32	19	4	6	13
Package demonstration G-9	Banana	414	782	88.9	5	23	18	18	28	88.9	20.3
Thrips management	Chilli	76.5	96	25.5	2	56	48	40	32	25.5	18.0
Livestock											
Mineral Mix	Cattle	291.7	410.9	40.8	10	87	85	88	38	37.5	7
Khaki Cambell	Duck	180	210	16.6	5	84	78	77	27	12	8
Fish	Jayanti rohu	9.20	9.77	6	5				19	5	10
Fish	*Pangus*	3.1	4.0	29	7	68	65	63	23	7	9
Fish	Tilapia	5.0	5.95	19	10	45	35	35	11	10	7

Table XIA: Impact of training

Sl. No	Subject of training	Crop	% change due to training				Yield (q/ha)			% change in income			No of beneficiary
			Knowledge	Skill	Attitude	Adoption	Before training	After training	% change	Before training Net [profit	After training	% change	
1	Weed Management	Rice	78	65	47	13	50	58	16	31450	35380	12.49	40
2	Water management	Rice	48	42	26	5	50	61	22	31450	37369	18.82	40
3	Seed production	Rice	59	43	53	7	50	60	20	31450	36740	16.82	60
4	Nursery management	Rice	83	79	77	28	50	57	14	31450	33853	7.64	60
5	Integrated Crop Management	Rice	36	24	19	7	50	54	8	31450	33149	5.40	40
6	Seed Treatment	Rice	100	100	100	100	50	55	10	31450	35480	11.35	90
7	SRI	Rice	87	53	39	30	50	75	50	31450	49000	55.80	90
8	Production technology of vegetables	Vegetables	67	54	48	16	213	234	10	47750	58946	23.45	40
9	Layout and Management of Orchards	Banana	39	38	23	3	414	782	88.9	90500	184000	103.00	20
10	Plant propagation techniques		19	15	13	1	-	-	-	-	-	-	20
11	Production of organic inputs	Vermicompost, Vermiwash	36	34	27	3	-	-	-	-	20000	100.00	20
12	Fodder production	Ricebean	21	17	16	2	194	240	23.71	3895	6100	56.00	30
13	Nursery raising	Onion, brinjal,	17	14	13	4	218	249	14.22	38900	57800	48.58	20

	for vegetables	Tomato											
14	Dairy Management	Cow	83	79	74	68	293	432.5	47.6	510	2189	329.21	60
15	Poultry Management	Hen	85	82	78	72				20000	60000	200.00	45
16	Disease Management	Animal	87	78	73	70	Mortality decreased by 31%						100
17	Household food security by kitchen gardening and nutrition gardening		34	27	21	7	140	210	50	56100	93500	66.67	20
18	Formation of SHG		68	59	57	36	7 SHG formed						60
19	Composite Fish culture	IMC	55	48	35	63	30	45	50	3900000	585000	50%	90
20	Disease management and prophylacting measures of IMC	IMC	47	45	39	57	22	26.4	20	242000	343200	41.81	60
21	Integrated Farming		5 integrated faring model has been developed by KVK in the village									120000	40

Table XIIA: Impacts of extension activities

Sl. No.	Technology	% change in area under new crops		% change in area under new varieties		Yield (q/ha)		Income	
		Before	After	Before	After	Before	After	Before	After
1	Integrated farming		4						120000
2	SRI					4.0	7.2	26000	49000
3	TCB			0.5	1.5	414	782	90500	184000
4	Vermicompost	No of earthworm/year					1.5 lakh		120000
Livestock									
1	Backyard Poultry	No of birds				50	1000		60000
2	RIR breed	No of birds				0	1050		
		No of egg/bird				90	210	540	1260
3	Introduction of Kakhi Cambell	No of ducks				30	800		
		No of egg/duck				90	180	540	1080
4	Mineral Mixture	Milk yield per cow				284.35	402.83	4549	6445
5	Cross breeding	No of cross breed cow				10	350	3500	6800
6	Mass vaccination	Mortality rate decreased by 31%							
7	Use of fish fingerling as fish seed	Area of ponds (ha.)		6.67	18.67	31.5	52.5	409500	525000

What are the activities carried out by KVK in your village?

a. Demonstration
b. Training
c. Vaccination
d. Soil Testing
e. Formation of seed village
f. Exposure Visit
g. Distribution of seeds and critical input

Changes in village due to KVK intervention

a. Increase in use of new variety:

The use of rice variety Swarna Sub1, PAC-831 hybrid, Gothra BidanI has increased during last 5 year.

More area has been brought into cultivation of mustard variety B-54, T-9, WBBBN-1

Cultivation of tissue cultured banana

b. Crop diversification

Earlier only rice was grown in the village. With KVKs intervention more area is brought under cultivation of vegetables, tissue cultured banana, fodder cultivation and production of paddy seed

c. Knowledge about improved techniques of crop production

System of Rice intensification, Zero Tillage, Soil Testing, Vermi composting, Integrated Farming, IPM, INM, Backyard poultry, Nutritional garden

d. Knowledge about improved dairy techniques

Using of mineral mixture to increase milk yield

Using homemade feed to increase milk yield

Cultivation of different fodder crops

Vaccination

e. Increase in employment opportunities due to entrepreneurial training

Two women entrepreneur have been developed in field of Katha Stitch

One farmer has started vermicompost enterprise

20 farmers have started fish seed business

f. Community initiatives

Formation of one farmers club

Formation of seven Self Help Group

Suggestion to improve KVKs approach

a. Availability of certified seed from KVK
b. Frequent diagnostic visit to farm
c. Disease management of Crops and animals
d. Distribution of new varieties
e. Distribution of critical input
f. Technology guidance

Impact assessment of KVK activities in Ketan village

Table IB: Distribution of respondents on basis of sex

Category	No	%
Male	25	100.00
Female	0	0.00
	25	100.00

Table IIB : Distribution of respondents on basis of Age

Category	No	%
23 and below	5	20.00
24-52	15	60.00
53 and above	5	20.00
	25	100.00

Table IIIB : Distribution of respondents on basis of education

Category	No	%
Illiterate	1	4.00
Primary	8	32.00
Secondary	14	56.00
Higher secondary	0	0
Degree	2	8.00
	25	100.00

Table IVB : Distribution of respondents on basis of family size

Category	No	%
2 and below	0	0.00
3-7	19	76.00
98 and above	6	24.00
	25	100.00

Table VB : Distribution of respondents on basis of category

Category	No	%
SC	8	32.00
ST	1	4.00
Others	16	64.00
2	25	100.00

Table VIB : Distribution of respondents on basis of land holding

Category	No	%
Landless	1	4.00
Marginal (<1ha)	17	68.00
Small (1-2 ha)	6	24.00
Semi- medium (2-4 ha)	1	4.00
Medium (4-10 ha)	0	0
Large (>10 ha)	0	0
	25	100.00

Table VIIB: Distribution of respondents on basis of following attributes

Type of house owned	Kaccha House		Pacca House		Total	
	No	%	No	%	No	%
	12		13		25	100.00
Particulars	Yes		No		Total	
	No	%	No	%	No	%
Availability of Pond	11	44.00	14	56.00	25	100.00
Availability of horticultural garden	5	20.00	20	80.00	25	100.00
Availability of Cattle	10	40.00	15	60.00	25	100.00
Availability of tractor	2	8.00	23	92.00	25	100.00
Availability of Paddy Thresher	19	76.00	6	24.00	25	100.00
Availability of Pump set	16	64.00	9	36.00	25	100.00
Availability of Bicycle	23	92.00	2	8.00	25	100.00
Availability of of Motor bike	7	28.00	18	72.00	25	100.00
Availability of radio set	11	44.00	14	56.00	25	100.00
Availability of TV	17	68.00	8	32.00	25	100.00
Availability of mobile	15	60.00	10	40.00	25	100.00
Availability of Sprayers	21	84.00	4	16.00	25	100.00

Table VIIIB: Distribution of respondents on basis of Frequency of meeting with KVK

Category	No	%
Daily	0	0.00
Weekly	2	8.00
Monthly	23	92.00
Quarterly	0	0.00
Once in season	0	0.00
	25	100.00

Table IXB: Sources of information

Source	Attribute				
	Reliability	Regularity	Quality	Relevance	Timeliness
KVK	100.00	100.00	100.00	100.00	100.00
Neighbour	56.00	40.00	48.00	48.00	76.00
Friend	56.00	28.00	28.00	28.00	28.00
ADO/ ADA	92.00	88.00	88.00	88.00	88.00
TV	64.00	40.00	36.00	36.00	24.00

Table XB: Cropping pattern

Crop	Before KVK			After KVK		
	Area (ha)	Area under improved varieties	Yield/ ha (q)	Area (ha)	Area under improved varieties	Yield/ ha (q)
Kharif						
Paddy	214	-	35	214	28	60-65
Vegetables	24	-	180	26	21	200
Rice bean				0.5	0.5	210
		-				
Rabi-						
Wheat	9	-	17	11		19.6
Mustard	27	-	7-8	25	25	10-11
Lentil	5	-	9.2	9	6	11.5
Potato				27	19	270
Vegetables	34	-	200	39	36	240
Summer						
Vegetable	10	-	175	10	10	190

Table XIB: Impact of FLD

Demonstrated technology	Crop	Productivity q/ha			No of Beneficiary	% change			% of adoption	Impact at farm (%)	
		CP	Demo	% change		Knowledge	Skill	Attitude		Yield	Income
Production technology of variety B – 9	Mustard	8.2	11.0	34.14	30	64	58	53	42	34.14	12
IPM	Mustard	10.25	13.75	34.20	5	32	24	22	21	34.20	24.51
Package demonstration of MTU-7029	Paddy	37.65	44.26	17.4	7	87	85	85	83	17.4	11
SRI	Paddy	52.6	71.6	34	15	43	21	20	18	34	18.97
Package technology on Lentil	Lentil	9.5	11.2	17.89	18	63	59	52	22	17.89	15.53
Late blight disease management	Potato	250	285	14	10	68	65	61	58	14	11.81
Fodder Production	Ricebean (Bidhan 1)	187.4	232	23.7	5	63	58	45	11	23.7	15.4
Component demonstration	Brinjal	213.7	226.5	6	8	54	43	39	38	8	12
Pheromone Trap	Brinjal	231	246	6.7	6	48	37	26	6	6	13
Livestock											
Mineral Mix	Cattle	291.7	410.9	40.8	10	76	74	75	42	37.5	7
Khaki Cambell	Duck	180	210	16.6	5	84	78	77	27	12	8
Fish	Jayanti rohu	9.10	9.77	6	05	64	61	57	19	6	10
Fish	*Pangus*	3.1	4.0	29	07	68	65	63	23	29	9
Fish	Tilapia	5.0	5.95	19	10	45	35	35	11	19	7

Table XIIB: Impact of training

Sl. No	Subject of training	Crop	% change due to training				Yield (q/ha)			% change in income			No of beneficiary
			Knowledge	Skill	Attitude	Adoption	Before training	After training	% change	Before training Net profit	After training	% change	
	Weed Management	Rice	81	67	48	15	45	50	11.11	23560	28140	19.43	40
	Water management	Rice	58	42	34	6	45	55	22.22	23560	32370	37.39	45
	Seed production	Rice	67	54	53	9	45	54	20	23560	31800	34.97	60
	Nursery management	Rice	87	83	82	34	45	49	8.89	23560	27680	17.48	60
	Integrated Crop Management	Rice	36	24	19	7	45	50	11.11	23560	29000	23.08	40
	Seed Treatment	Rice	100	100	100	1000	45	52	15.55	23560	29980	27.24	
	SRI	Rice	68	59	56	54	45	75	66.66	23560	40530	72.03	90
	Production technology of vegetables	Vegetables	67	54	48	16	213	234	10	47750	58946	23.45	40
	Plant propagation techniques		19	15	13	1	-	-	-	-	-	-	20
	Production of organic inputs	Vermicompost, Vermiwash	36	34	27	3	-	-	-	-	20000	100.00	20
	Fodder production	Ricebean	21	17	16	2	194	240	23.71	3895	6100	56.00	30
	Nursery raising for vegetables	Onion, brinjal, Tomato	17	14	13	4	218	249	14.22	38900	57800	48.58	20
	Dairy Management	Cow	83	79	74	68	293	432.5	47.6	510	2189	329.21	60
	Poultry Management	Hen	85	82	78	72				20000	60000	200.00	45
	Disease Management	Animal	87	78	73	70	-	-	-	-	-		100

	Gender mainstreaming through SHGs		58	57	52	49							30
	Household food security by kitchen gardening and nutrition gardening		34	27	21	7	140	210	50	56100	93500	66.67	20
	Composite Fish culture	IMC	55	48	35	63	30	45	50	3900000	585000	50.00	90
	Disease management and prophylacting measures of IMC	IMC	47	45	39	57	22	26.4	20	242000	343200	41.81	60

Table XIIIB: Impacts of extension activities

Sl. No.	Technology	% change in area under new crops		% change in area under new varieties		Yield (q/ha)		Income	
		Before	After	Before	After	Before	After	Before	After
1	SRI					4.0	7.2	26000	49000
2	Mushroom					600gm/ bed	900gm /bed	-	12000
Livestock									
1	Backyard Poultry	No of birds				65	1500	-	62000
2	RIR	No of birds					800		
		No of egg/bird				90	210	540	1260
3	Kaki Cambell	No of duck					600		
		No of eggs/duck				90	180	540	1080
4	Mineral Mixture	Milk yield per cow				250	400	4549	6445
5	Cross breeding	No of cross breed cow				7	180	2000	6000
6	Mass vaccination	Mortality rate decreased by 29%							
7	Use of fish fingerling as fish seed	Area of ponds (ha.)	4.48	12.37		29.5	47.5	383500	617500

What are the activities carried out by KVK in your village?

h. On Farm Testing
i. Demonstration
j. Training
k. Vaccination
l. Soil Testing
m. Formation of seed village
n. Exposure Visit
o. Distribution of seeds and critical input

Changes in village due to KVK intervention

g. Increase in use of new variety:

The use of rice variety Swarna Sub1, PAC-831 hybrid has increased during last 5 year.

More area has been brought into cultivation of mustard variety T-9, WBBBN-1

More area has been brought under cultivation of brinjal Bhangar variety

Area under Abhilash variety of tomato has increased.

WBL 81 variety of lentil was introduced

h. Crop diversification

Earlier only rice and bit vegetable was grown along with marginal mustard and wheat was grown in the village. With KVKs intervention more area is brought under cultivation of off season vegetables, fodder cultivation and production of paddy seed

i. Knowledge about improved techniques of crop production

System of Rice intensification, Zero Tillage, Soil Testing, Vermi composting, Integrated Farming, IPM, INM, Backyard poultry, Nutritional garden, Oyster mushroom production

j. Knowledge about improved dairy techniques

Using of mineral mixture to increase milk yield

Using homemade feed to increase milk yield

Cultivation of different fodder crops

Vaccination

Suggestion to improve KVKs approach

g. Frequent diagnostic visit to farm
h. Disease management of Crops and animals
i. Distribution of seeds of new varieties
j. Distribution of critical input
k. Conducting exposure visit