ANNUAL REPORT
(JAN. 2019 – DEC. 2019)

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SUBMITTED

TO

INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR) – AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH INSTITUTE (ATARI), ZONE – V, KOLKATA

IN

JULY, 2020

Annual Report 2020 (January, 2019 – December, 2019)

Name of KVK: Rathindra KVK **District: Birbhum** **State: West Bengal**

TECHNOLOGY ASSESSMENT

Technologies assessed under various crops by KVKs (Crop Production)

Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
Integrated Nutrient Management	01	01	10
Varietal Evaluation			
Integrated Pest Management	01	01	07
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System	01	01	07
Seed / Plant production			
Post Harvest Technology / Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify) Soil Health Management	01	01	05
Total	04	04	29

Details of best OFT-1

1.	**Title of On farm Trial**	Assessment of liming dose in profitable manners in increasing productivity of Garden Pea
2.	**Problem diagnosed**	Due to lower soil pH (higher acidity), less flower and pod formation of Garden Pea is being noticed. According to farmers' practice, application of lime is not being performed. So yield of Garden Pea is low.
3.	**Details of technologies selected for assessment / refinement**	**Assessment** **Farmers' Practice :** No liming
		Technology Option -I : Lime as per soil testing
		Technology Option -II: Lime @ 10% of the Lime requirement as per soil testing
		Technology Option - III: Lime @ 20% of the Lime requirement as per soil testing
		(N. B.: - Recommended fertilizer dose will be applied in all the Technology Options including the Farmers' Practice.)
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	**ICAR [**Managing Acid Soils for enhancing Productivity, P. D. Sharma and A. K. Sarkar (2005), Division of Natural Resource Management (NRM), Indian Council of Agricultural Research (ICAR), Krishi Anusandhan Bhawan – II, Pusa, New Delhi and published by the Director, ICAR-NBSS&LUP, Nagpur, Maharasthra.]
5.	**Production system and thematic area**	Paddy – Mustard; Soil Health Management
6.	**Performance of the Technology with performance indicators**	Technology Option-II i.e. Lime @ 10% of the lime requirement as per soil testing produced significantly better growth, yield components, yield and B:C ratio than other Technology Options and farmers practice in Garden Pea Cultivation managing acid soil economically.
7.	**Final recommendation for micro level situation**	Soil Test Based Limeapplication @ 10% of the lime requirement will produce significantly better growth, yield components, yield and B:C ratio than other Technology Options and farmers practice in Garden Pea Cultivation through management of acid soil economically.
8.	**Constraints identified and feedback for research**	Collection of soil sample sometimes found difficult for heavy rain before the sowing time
9.	**Process of farmers' participation and their reaction**	Farmers actively participated in the day to day monitoring of the crop and data collection with KVK scientists. Farmers also incurred all the labour cost for cultivation

Thematic area: Soil Health Management (Rabi, 2019)
Problem definition: Due to lower soil pH (higher acidity), less flower and pod formation of Garden Pea is being noticed. According to farmers' practice, application of lime is not being performed. So yield of Garden Pea is low.
Technology assessed: Assessment of liming dose in profitable manners in increasing productivity of Garden Pea

Table: Effect of liming dose on yield components, yield and economics of garden pea

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
		No. of Branches per Plant	No. of pods per plant	No. of Seeds per capsules					
Farmers' Practice : No liming	5	7.7	6.6	5.2	45.3	47384	92400	45016	1.95
Technology Option-I: Lime as per soil testing		10.1	9.6	5.8	69.4	67550	141000	73450	2.09
Technology Option -II: Lime @ 10% of the Lime requirement as per soil testing		12.7	11.4	6.9	87.6	51384	177000	1,25,616	3.44
Technology Option - III: Lime @ 20% of the Lime		10.5	10.4	6.2	78.1	55384	158600	1,03,216	2.84

requirement as per soil testing									
SEM±		0.408	0.304	0.094	2.052				
CD(P=0.05)		1.26	0.94	0.29	6.15				

(N. B.: - Recommended fertilizer dose were applied in all the Technology Options including the Farmers' Practice.)

	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
Initial soil pH	6.2	6.1	6.4	6.2	6.2

Result: The data indicated that Technology Option-II i.e. Lime @ 10% of the lime requirement as per soil testing produced significantly better growth, yield components, yield and B:C ratio than other Technology Options and farmers practice in Garden Pea Cultivation managing acid soil economically.

Field Photograph of the OFT on Assessment of liming Dose in profitable manners in increasing Productivity of Garden Pea

Details of best OFT-2

1.	**Title of On farm Trial**	Assessment of profitability due to integration of different components under fish based production systems
2.	**Problem diagnosed**	Lack of technological knowhow in integration of components in proper way for higher profitability
3.	**Details of technologies selected for assessment/refinement**	**Assessment** Farmer's practice: Traditional fish farming
		I. composite fish culture (IMC) + Duck farming (30 nos.) + *Azolla* + Pulses (Redgram - Blackgram)
		II. composite fish culture (IMC) + Duck farming (30 nos.) + *Azolla* + Vegetables (Ladys' Finger -Capsicum)
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	ICAR [DARE/ICAR Annual Report, 2008-09, Page12-14 &Fertiliser News, 46 (11), pp 53-55 & 57-58]
5.	**Production system and thematic area**	Fish based production system and Tematic Area: - Integrated Farming System
6.	**Performance of the Technology with performance indicators**	The result of the trial indicated that Technology Option –I i.e. Composite fish culture +Poultry farming +Azolla+ Pulses exhibited significantly higher BC ratio (2.93) than those of Technology Option-II (2.52) and farmers practice (1.21).
7.	**Final recommendation for micro level situation**	It may be recommended that integrated farming system with composite fish culture, duck farming, azolla and pulse cultivation in bank of the pond is very effective to integrate the components in profitable manner in Birbhum District.

8.	**Constraints identified and feedback for research**	The scientific management and monitoring and evaluation and record keeping of different components of the Integrated Farming System is complicated for general farmers to follow. Future Research focus should be on areas of simplification and calibration opf various models of IFS for different types of Agro Ecological Situation of Birbhum District.
9.	**Process of farmers participation and their reaction**	Farmers actively participated in the day to day monitoring of the fishery, animal, cropcomponents and data collection with KVK scientists. Farmers also incurred all the labour cost for the Integrated Farming.

Thematic area: Integrated Farming System (Rainy, 2019)

Problem definition: Lower profitability under fish based production system

Technology assessed: Assessment of profitability due to integration of different components under fish based production systems

Table: Profitability under fish based integrated farming system

Technology option	No. of trials	Man days utilized per year	Cost of cultivation (Rs./unit*)	Gross return (Rs./unit)	Net Return (Rs /unit)	BC Ratio
Farmer's practice: Traditional fish farming	7	17	39,860.00	48,320.00	8,460.00	1.21
I. composite fish culture (IMC) + Duck farming (30 nos) + *Azolla* + Pulses (Redgram- Blackgram)		253	60,950.00	1,78,675.00	1,17,725.00	2.93
II. composite fish culture (IMC) + Duck farming (30 nos) + *Azolla* + Vegetables (ladys' finger-capsicum)		269	90,640.00	2,28,500.00	1,37,860.00	2.52
Sem±		9.29	-	-	-	0.107
CD at 5%		29.02	-	-	-	0.33

- FP: 1 unit = 0.19 ha pond only + fallow land
- Opt-1: 1 unit= 0.19 ha pond + 30 nos. of Ducks + 0.13 ha utilsed land with pulse
- Opt-2: 1 unit= 0.19 ha pond + 30 nos. ofDucks + 0.13 ha utilised land by vegetables

Result:

The result of the trial indicated that Technology Option –I i.e. Composite fish culture +Poultry farming +Azolla+ Pulses exhibited significantly higher BC ratio (2.93) than those of Technology Option-II (2.52) and farmers practice (1.21). Here it is to be mentioned that gross return and net return was higher in integrated farming system where vegetable cultivation was one of the components. It might be due to higher value of vegetables than pulses. But due to low cost of cultivation, BC ratio was higher in integrated farming system where pulses were the component. Droppings of ducks were also used as feed of fishes in both Technology Option-I and II. But in Technology Option-I, the leftover materials of pulses were also used as feed of fishes and ducks. So, integration was more among the components in the Technology Option-I. Moreover, azolla was also used as feed of fish and ducks. Besides that, the azolla was also used as organic manure and bio fertilizer in pulses and vegetables. Further, man day's utilization (265 per year) was slightly higher in Technology Option –II than Technology Option-I (250 per year) but it was found at par effects. In farmers practice, man days utilization was very low (15 per year) and BC ratio was also very low (1.21). Therefore, it may be concluded that integrated farming system with composite fish culture, duck farming, azolla and pulse cultivation in bank of the pond is very effective to integrate the components in profitable manner in Birbhum District.

Technologies assessed under livestock by KVKs

Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Disease Management	01	01	05
Evaluation of Breeds	01	01	07
Feed and Fodder management	01	01	07
Nutrition Management			
Production and Management			
Processing and value addition			
Others (Pl. specify)			
Total	03	03	19

Details of best OFT-1 (Livestock)

Time Period	**2019**
Title	Evaluation of performance of strategic feed supplementation to crossbreed milch cattle
Problem Definition	Poor feeding practices and the low availability of quality feed in unorganized dairy farming by small and marginal farmer
Present Situation	Generally in West Bengal situation, the majority of SHGs are having 10 numbers of members.
Production system and thematic area	Semi intensive system and Nutrition management.
Details of technologies selected for assessment / refinement	Control: Farmer's Practice Technology Option - I: Farmer's Practice + Protein Supplement (MOC 500gm/cow/day) Technology Option - II: Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day)
Performance of the Technology with performance indicators	The performance of technology Option – II i.e. Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day) was found significant with 23.54 per cent increase in Milk yield (lit. / wk. / Cow), 12.84 % increase in Fat Percentage and increased B:C Ratio of 1.84 over the B:C Ratio of 1.50 of the Control i.e. Farmers' Practice
Time	2019 – 2020

Final recommendation for micro level situation	The Technology Option – II i.e. Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day) may be used for better production performance of Cross Breed Milch Cattle in Birbhum District
Constraints identified and feedback for research	The feed ingredients are considered highly expensive for small scale dairy farmers
Source of Technology	West Bengal University of Animal and Fishery Sciences(SAU)
Numbers of Replications	07(Seven)
Approximate Costs shared by the KVK	Rs. Rs.40,000/

Problem definition: Poor feeding practices and the low availability of quality feed in unorganized dairy farming by small and marginal farmer.

Technology Option	No. of trials	Milk yield (lit. / wk. / Cow	Fat %	SN Fat %	Cost of farming (Rs. / unit)	Gross return (Rs. / unit	Net Return (Rs/unit)	B/C Ratio
Control: Farmer's Practice	07	51.38± 0.65	4.04± 0.04	8.55±0.04	38900.00	97320.00	58420.00	1.51
Technology Option - I: Farmer's Practice + Protein Supplement (MOC 500 gm/cow/day)		59.35±0.62	4.29±0.03	8.69±0.04	42220.00	114584.00	72364.00	1.71
Technology Option - II: Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day)		63.08± 0.48	4.58±0.05	8.73± 0.03	47050.00	131438.0 0	84388.00	1.79

Result: The performance of technology Option – II i.e. Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day) was found significant with 22.77 per cent increase in Milk yield (lit. / wk. / Cow), 13.36 % increase in Fat Percentage and increased B:C Ratio of 1.79 over the B:C Ratio of 1.50 of the Control.

Photograph of Preparation of Feed supplement by Dairy Farmers for OFT

Technologies assessed under various enterprises by KVKs

Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Drudgery reduction			
Health and nutrition			
Processing and value addition			
Energy conservation			
Small-scale income generation			
Storage techniques			
Household food security			
Organic farming			
Agroforestry management			
Mechanization			
Resource conservation technology			
Any other			
Total			

Technologies assessed under various enterprises for women empowerment.

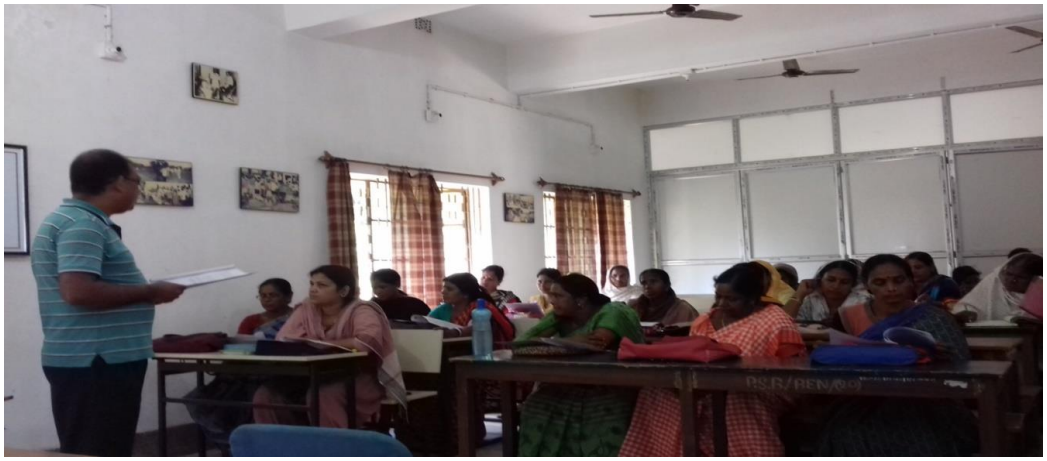
Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Group Dynamics	01	01	10
Total	**01**	**01**	**10**

Time Period	**2019 and 2020**
Title	**Assessing performance of different group sizes of SHG on annual savings**
Problem Definition	The selection of appropriate group size of Self Help Groups (SHGs) is important for efficient group dynamics as well as group performances. The selection of a suitable size of group members of a SHG is largely influenced by various socio-economic and situational factors which in turn affect the economic performances such as annual savings from the group activities.
Hypothesis	Relatively large groups having more than 15 (Fifteen) numbers of members will have more annual savings as it will enjoy both a higher revenue generation as well as a more favourable economy of scale of business.
Present Situation	Generally in West Bengal situation, the majority of SHGs are having 10 numbers of members.
Prevalent Practice	The Govt. encourages formation of SHGs with 10 to 15 members though the lower ceiling of numbers of members is 10 [Ref: - Memo No.925/W. B. S. R. L. M / Prog / 6P – 176 / 2015, Dated: - 15.09.2015 issued by “Anandadhara”, West Bengal State Rural Livelihoods Mission (WBSRLM), Panchayatas and Rural Development Department, Govt. of West Bengal].

Group Formation System	Generally 10 – 20 numbers of persons of a locality or nearby localities can form a Self Help Group.
Thematic Area	Group dynamics
Objective	To assess the extent of annual savings by different SHGs having different number sizes of group members.
Time	2019 – 2020
SHGs to be involved	Various SHGs having a diverse numbers of group members.
Details of Treatments	**Farmers' Option = T_1=** 10 members (Small Group) **T_2=** 11-15 members (Medium group) **T_3= >**15 members (Large Group)
Source of Technology	Overview of Frontline Extension Tools and Designing OFTs in Extension, R. Roy Burman, ICAR-IARI, New Delhi
Numbers of Replications	10 (Ten)
Numbers of SHGs per Member Size Group	10 (Ten)
Total Numbers of SHGs	30 (Thirty)
Critical Input	a. KVK Share: Assessing the economic performances of SHGs of various member size groups. b. Farmers' Share: Running of SHG activities and maintaining the financial records of the SHGs.
Performance / Monitoring Indicators	• Savings from own contribution of members •Saving from interest of loan to its member and outsider •Income from different economic activities of the group •Revolving fund receive from block •Savings from donation •Other sources of income-Income from lottery, Harvesting of crops, organizing stall in fairs, social festivals etc.
Approximate Costs shared by the KVK	Rs. 5,000.00
Present Status of the OFT	The Programme is going on.

Interacting with members of Medium Size Self Help Group (SHG) of Illumbazar CD Block, Birbhum District

Interacting with Members of Large Size Self Help Group (SHG) of Md. Bazar CD Block, Birbhum District



TECHNOLOGY REFINEMENT

Technologies refined under various crops by KVKs (Crop Production)

Thematic areas	Number of the technologies (Technology Interventions)	No. of trials	No. of Locations
Integrated Nutrient Management			
Varietal Evaluation			
Integrated Pest Management			
Integrated Crop Management			
Integrated Disease Management			
Small Scale Income Generation Enterprises			
Weed Management			
Resource Conservation Technology			
Farm Machineries			
Integrated Farming System			
Seed / Plant production			
Post Harvest Technology / Value addition			
Drudgery Reduction			
Storage Technique			
Others (Pl. specify)			
Total			

Technologies refined under livestock by KVKs

Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Disease Management			
Evaluation of Breeds			
Feed and Fodder management			
Nutrition Management			
Production and Management			
Processing and value addition			
Others (Pl. specify)			
Total			

Technologies refined under various enterprises by KVKs

Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Drudgery reduction			
Health and nutrition			
Processing and value addition			
Energy conservation			
Small-scale income generation			
Storage techniques			
Household food security			
Organic farming			
Agroforestry management			
Mechanization			
Resource conservation technology			
Any other			
Total			

Technologies refined under various enterprises for women empowerment.

Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
Total			

Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	17	360	48	408
Diagnostic visits	141	493	40	533
Field Day	17	636	51	687
Group discussions				
Kisan Ghosthi	01	79	16	95
Film Show				
Self -help groups	06	90	06	96
Kisan Mela	03	996	22	1018
Exhibition	03	630	40	670
Scientists' visit to farmers field	151	484	50	534
Plant/animal health camps	08	220	24	244
Farm Science Club				
Ex-trainees Sammelan				
Farmers' seminar/workshop	02	130	11	141
Method Demonstrations				
Celebration of important days	03	141	12	153
Special day celebration	04	171	19	190
Exposure visits	07	160	28	188

Others (pl. specify)				
Total	**360**	**4590**	**367**	**4957**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	06
News paper coverage	07
Popular articles	03
Research papers	06
Radio Talks	16
TV Talks	09
Others (pl. specify)	
Total	**47**

SPECIAL PROGRAMMES

(A) RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**

(B) KISAN MOBILE ADVISORY SERVICES

No. Technologies	No. of Messages (SMSs)	No. of Farmers
17	**37213**	**7830**

(C) SEED HUBs on Pulses

Name of the Zone :
No. of Seed hubs in the Zone :

Sl. No.	Name of the Crop	Seed produced (q)
1		
2		
3		
4		
	Total	

(D) SKILL DEVELOPMENT

Sl. No.	Name of the Job role	Duration (Hours)	No. of participants	No. of KVKs
01.	**Hatchery Production Worker**	**200**	**20**	**01**
02.	**Agriculture Extension Service Provider**	**200**	**20**	**01**

SAC meeting

Sl. No.	Date of SAC meeting	No. of participants
01.	26.03.2019.	18

TRAINING PROGRAMMES

a) Farmers' Training including sponsored training programmes (ON Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies	1	15	0	15	18	0	18	33	0	33
Cropping Systems				0			0	0	0	0
Crop Diversification	5	34	25	59	22	12	34	56	37	93
Integrated Farming	1	12	0	12	8	0	8	20	0	20
Micro irrigation/irrigation	1	29	1	30	8	2	10	37	3	40
Seed production	1	6	8	14	5	3	8	11	11	22
Nursery management				0			0	0	0	0
Integrated Crop Management	1	14	2	16	17	0	17	31	2	33
Soil & water conservation				0			0	0	0	0
Integrated nutrient Management	3	66	7	73	10	3	13	76	10	86
Production of organic inputs				0			0	0	0	0
Others				0			0	0	0	0
Total	**13**	**176**	**43**	**219**	**88**	**20**	**108**	**264**	**63**	**327**
Horticulture								0	0	
a) Vegetable Crops								0	0	
Production of low volume and high value crops	1	5	5	10	0	16	16	5	21	26
Off0season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others	1	0	4	4	0	3	3	0	7	7
Total (a)	**2**	**5**	**9**	**14**	**0**	**19**	**19**	**5**	**28**	**33**
b) Fruits								0	0	
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

c) Ornamental Plants								0	0	
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others				0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others		0		0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants								0	0	
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a0g)	**2**	**5**	**9**	**14**	**0**	**19**	**19**	**5**	**28**	**33**
Soil Health and Fertility Management								0	0	
Soil fertility management	2	37	28	65	45	20	65	82	48	130
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils	1	26	1	27	13	0	13	39	1	40
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Balance Use of fertilizer				0			0	0	0	0
Soil & water testing	1	4	0	4	26	0	26	30	0	30
others				0			0	0	0	0
Total	**4**	**67**	**29**	96	**84**	**20**	104	151	49	200
Livestock Production and Management								0	0	
Dairy Management	4	5	0	5	35	57	92	40	57	97

Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management	2	25	1	26	37	0	37	62	1	63
Feed & fodder technologies	1	35	0	35	5	0	5	40	0	40
Production of quality animal products				0			0	0	0	0
Others	7	78	2	80	60	55	115	138	57	195
Total	**14**	**143**	**3**	**146**	**137**	**112**	**249**	**280**	**115**	**395**
Home Science/Women empowerment								0	0	
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing & cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agril. Engineering								0	0	
Farm machinery & its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Plant Protection								0	0	
Integrated Pest Management	1	37	0	37	13	0	13	50	0	50
Integrated Disease Management				0			0	0	0	0
Bio0control of pests and diseases				0			0	0	0	0

Production of bio control agents and bio pesticides				0			0	0	0	0
Others	1	27	0	27	2	0	2	29	0	29
Total	**2**	**64**	**0**	**64**	**15**	**0**	**15**	**79**	**0**	**79**
Fisheries								0	0	
Integrated fish farming	1	21	9	30	7	3	10	28	12	40
Carp breeding and hatchery management	1	26	1	27	0	0	0	26	1	27
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture	2	46	0	46	7	0	7	53	0	53
Hatchery management and culture of freshwater prawn	1	12	0	12	3	0	3	15	0	15
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others	2	10	0	10	52	9	61	62	9	71
Total	**7**	**115**	**10**	**125**	**69**	**12**	**81**	**184**	**22**	**206**
Production of Input at site								0	0	
Seed Production	3	52	9	61	53	3	56	105	12	117
Planting material production				0			0	0	0	0
Bio0agents production				0			0	0	0	0
Bio0pesticides production				0			0	0	0	0
Bio0fertilizer production				0			0	0	0	0
Vermi0compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee0colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others				0			0	0	0	0
Total	**3**	**52**	**9**	**61**	**53**	**3**	**56**	**105**	**12**	**117**
Capacity Building and Group Dynamics								0	0	
Leadership development			0	0			0	0	0	0
Group dynamics	1	26	0	26	2	0	2	28	0	28
Formation and Management of SHGs	1	26	0	26	13	0	13	39	0	39
Mobilization of social capital	1	22	0	22	5	0	5	27	0	27
Entrepreneurial development of farmers/youths	1	14	0	14	9	0	9	23	0	23
WTO and IPR issues				0			0	0	0	0
Others	4	103	1	104	30	0	30	133	1	134
Total	**8**	**191**	**1**	**192**	**59**	**0**	**59**	**250**	**1**	**251**
Agro forestry								0	0	
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management				0			0	0	0	0

Integrated Farming Systems	1	3	0	3	26	1	27	29	1	30
Others				0			0	0	0	0
Total	**1**	**3**	**0**	**3**	**26**	**1**	**27**	**29**	**1**	**30**
Grand Total	**54**	**816**	**104**	**920**	**531**	**187**	**718**	**1347**	**291**	**1638**

a) Farmers' Training including sponsored training programmes (OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management				0	0	0	0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Micro irrigation/irrigation				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management				0			0	0	0	0
Soil & water conservation				0			0	0	0	0
Integrated nutrient Management				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Others	1	4	2	6	0	12	12	4	14	18
Total	**1**	**0**	**2**	**0**	**0**	**12**	**12**	**0**	**14**	**14**
Horticulture								0	0	
a) Vegetable Crops								0	0	
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off0season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation				0			0	0	0	0
Others				0			0	0	0	0
Total (a)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
b) Fruits								0	0	
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
Others				0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants								0	0	
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental				0			0	0	0	0

plants										
Propagation techniques of Ornamental Plants				0			0	0	0	0
Others				0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices								0	0	
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition				0			0	0	0	0
Others		0		0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants								0	0	
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a0g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Soil Health and Fertility Management								0	0	
Soil fertility management	1	10	0	10	3	0	3	13	0	13
Integrated water management				0			0	0	0	0
Integrated Nutrient Management				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency	1	42	0	42	8	0	8	50	0	50
Balance Use of fertilizer				0			0	0	0	0
Soil & water testing				0			0	0	0	0
others				0			0	0	0	0
Total	**2**	**52**	**0**	52	**11**	**0**	11	63	0	63
Livestock Production and Management								0	0	
Dairy Management	1	0	0	0	16	0	16	16	0	16
Poultry Management				0			0	0	0	0
Piggery Management	2	0	0	0	19	61	80	19	61	80
Rabbit Management				0			0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Disease Management				0			0	0	0	0

Feed & fodder technologies				0			0	0	0	0
Production of quality animal products	1	2	0	2	0	48	48	2	48	50
Others	3	50	0	50	33	47	80	83	47	130
Total	**7**	**52**	**0**	**52**	**68**	**156**	**224**	**120**	**156**	**276**
Home Science/Women empowerment								0	0	
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Processing & cooking				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care	1	0	23	23	0	27	27	0	50	50
Others				0			0	0	0	0
Total	**1**	**0**	**23**	**23**	**0**	**27**	**27**	**0**	**50**	**50**
Agril. Engineering								0	0	
Farm machinery & its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Plant Protection								0	0	
Integrated Pest Management	1	0	23	23	0	27	27	0	50	50
Integrated Disease Management	1	0	32	32	0	13	13	0	45	45
Bio0control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
Others	1	0	37	37	0	13	13	0	50	50
Total	**3**	**0**	**92**	**92**	**0**	**53**	**53**	**0**	**145**	**145**
Fisheries								0	0	
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery				0			0	0	0	0

management										
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Production of Input at site								0	0	
Seed Production	1	0	9	9	4	9	13	4	18	22
Planting material production				0			0	0	0	0
Bio0agents production				0			0	0	0	0
Bio0pesticides production				0			0	0	0	0
Bio0fertilizer production				0			0	0	0	0
Vermi0compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee0colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
Mushroom production				0			0	0	0	0
Apiculture				0			0	0	0	0
Others				0			0	0	0	0
Total	**1**	**0**	**9**	**9**	**4**	**9**	**13**	**4**	**18**	**22**
Capacity Building and Group Dynamics								0	0	
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agro forestry								0	0	
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
Others				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**15**	**104**	**126**	**228**	**83**	**257**	**340**	**187**	**383**	**570**

b) Training for Rural Youths including sponsored training programmes (ON Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs	2	20	0	20	7	0	7	27	0	27
Planting material production				0			0	0	0	0
Vermi0culture				0			0	0	0	0
Mushroom Production	1	10	1	11	4	3	7	14	4	18
Bee0keeping				0			0	0	0	0
Sericulture				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Value addition				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying	1	0	0	0	11	10	21	11	10	21
Sheep and goat rearing				0			0	0	0	0
Quail farming	1	3	0	3	5	22	27	8	22	30
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Composite fish culture	2	40	0	40	10	0	10	50	0	50
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
other				0			0	0	0	0
Total	**7**	**73**	**1**	**74**	**37**	**35**	**72**	**110**	**36**	**146**

b) Training for Rural Youths including sponsored training programmes (OFF Campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0			0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0

Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi0culture				0			0	0	0	0
Mushroom Production				0			0	0	0	0
Bee0keeping				0			0	0	0	0
Sericulture				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Value addition				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

c) Training programmes for Extension Personnel including sponsored training programmes (ON Campus)

	No. of	No. of Participants								
	Courses	General			SC/ST			Grand Total		
Area of training		**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Productivity enhancement in field crops	7	232	7	239	28	0	28	260	7	267
Integrated Pest Management	22	718	22	740	80		80	798	22	820
Integrated Nutrient management	8	266	8	274	31		31	297	8	305
Rejuvenation of old orchards	1	35	1	36	4		4	39	1	40
Protected cultivation technology	2	68	2	70	8		8	76	2	78
Production and use of organic inputs				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0

Low cost and nutrient efficient diet designing				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Other	5	178	4	182	18	0	18	196	4	200
Total	**45**	**1497**	**44**	**1541**	**169**	**0**	**169**	**1666**	**44**	**1710**

c) Training programmes for Extension Personnel including sponsored training programmes (OFF Campus)

	No. of	No. of Participants								
	Courses	General			SC/ST			Grand Total		
Area of training		**Male**	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

d) Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	0	0	0	0	0	0	0	0	0	0
Commercial production of vegetables				0			0	0	0	0
Production and value addition				0			0	0	0	0
Fruit Plants				0			0	0	0	0
Ornamental plants				0			0	0	0	0
Spices crops				0			0	0	0	0
Soil health and fertility management				0			0	0	0	0
Production of Inputs at site				0			0	0	0	0
Methods of protective cultivation				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Post harvest technology and value addition								0	0	
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Farm machinery								0	0	
Farm machinery, tools and implements	0	0	0	0	0	0	0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Livestock and fisheries								0	0	
Livestock production and management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management				0			0	0	0	0
Animal Disease Management				0			0	0	0	0
Fisheries Nutrition				0			0	0	0	0
Fisheries Management				0			0	0	0	0
Other				0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Home Science								0	0	
Household nutritional security	0	0	0	0	0	0	0	0	0	
Economic empowerment of women				0			0	0	0	
Drudgery reduction of women				0			0	0	0	
Other				0			0	0	0	
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Agricultural Extension								0	0	
Capacity Building and Group Dynamics								0	0	
Other								0	0	
Total								0	0	
Grant Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0	0	**0**

e) Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture	0	0	0	0	0	0	0	0	0	0
Commercial fruit production			0			0			0	
Commercial vegetable production			0			0			0	
Integrated crop management			0			0			0	
Organic farming	1	9	0	9	3	0	3	9	3	12
Other			0			0			0	
Total	**1**	**9**	10	**9**	**3**	12	**3**	**9**	12	**12**
Post harvest technology and value addition										
Value addition	0	0	0	0	0	0	0	0	0	0
Other				0			0			0
Total	**0**	**0**	**0**	0	**0**	**0**	0	**0**	**0**	0
Livestock and fisheries										
Dairy farming	1	0	0	0	11	10	21	11	10	21
Composite fish culture	1	20	0	20	5	0	5	25	0	25
Sheep and goat rearing				0			0			0
Piggery				0			0			0
Poultry farming				0			0			0
Other (Goatery) (Hatchery Production Worker)	2	18	0	18	10	22	32	28	22	50
Total	**4**	**38**	**0**	38	**26**	**32**	58	**64**	**32**	96
Income generation activities										
Vermi0composting	1	11	0	11	4	0	4	15	0	15
Production of bio0agents, bio0pesticides,				0			0			0
bio0fertilizers etc.				0			0			0
Repair and maintenance of farm machinery & implements				0			0			0
Rural Crafts				0			0			0
Seed production				0			0			0
Sericulture				0			0			0
Mushroom cultivation	1	10	1	11	4	3	7	14	4	18
Nursery, grafting etc.				0			0			0
Tailoring, stitching, embroidery, dying etc.				0			0			0
Agril. para0workers, para0vet training				0			0			0
Other				0			0			0
Total	**2**	**21**	**1**	22	**8**	**3**	11	**29**	**4**	33
Agricultural Extension										
Capacity building and group dynamics	0	0	0	0	0	0	0	0	0	0
Other (Agril. Extension Service Provider)	1	8	0	8	12	0	12	20	0	20
Total	**1**	**8**	**0**	8	**12**	**0**	12	**20**	**0**	20
Grand Total	**8**	**76**	**11**	**77**	**49**	**47**	**84**	**122**	**48**	**161**

Seed Production

	Quantity of seed (q)	Value (Rs.)	Distributed to no. of farmers
Cereal			
Barley			
Maize			
Oat			
Paddy	20.89	62670	625
Wheat			
Millet			
Buck Wheat			
Foxtail millet			
Sorghum			
Barnyard millet			
Finger millets			
Bajra			
Amaranth			
Pearl millet			
Jowar			
Maize Hybrid			
Ragi			
Little Millet			
Kodo			
Navane			
Others			
Total	20.89	62670	625
Oilseed			
Brown Sarson			
Gobhi Sarson			
Groundnut			
Karan Raya			
Raya			
Sesame	0.1	1500	6
Soybean			
Sunflower			
Linseed	1	12000	20
Niger			
Toria			
Rapeseed			
Sesamum			
Mustard	2.3	27600	142
Rai			
Yellow Sarson	3	36000	175
Castor			
Safflower			
Castor Hybrid			

Others			
Total	6.4	77100	343
Green Manure			
Sunhemp			
Dhaincha			
Others			
Total	0	0	0
Pulse			
Beans			
Blackgram	1	15000	25
Cowpea			
Fieldpea			
Frenchbean			
Gram			
Clusterbean			
Lentil			
Moong	2.48	37200	65
Pigeonpea			
Rajmash			
Chickpea			
Pea			
Rice bean			
Urd			
Black soybean			
Horse gram			
Field bean			
Mothbean			
Dolichos			
Valvet bean			
Others			
Total	15.18	192900	750
Commercial Crop			
Sugarcane			
Potato			
Clusterbean			
Cotton			
Others			
Total	0	0	0
Vegetable			
Bitter Gourd			
Brocolli			
Carrot			
Chilli			
Chinese Cabbage			
Chinese Sarson			
Colocasia			
French bean			

Leafy Mustard			
Methi			
Okra			
Onion			
Peas			
Radish			
Spinach			
Tinda			
Turnip			
Tomato			
Lobia			
Brinjal			
Coriander			
Garden pea			
TPS			
Vegetable pea			
Garlic			
Cabbage			
Cauliflower			
Amaranths			
Bottlegourd			
Cluster bean			
Drumstick			
Ribbed gourd			
Kachari			
Muskmelon			
Snapmelon			
Watermelon			
Cowpea			
Yam			
Ash Gourd			
Beet Root			
Bush Cowpea			
Bush type lablab			
Capsicum			
Cowpea-Bush			
Cucumber			
Dolichos Bean			
Moringa			
Pumpkin			
Ridge Gourd			
Snake Gourd			
Winged Bean			
Others			
Total	0	0	0
Flower			
Flower			

Gerbera			
Tube rose			
Chrysanthemum			
Gaillardia			
Marigold			
Others			
Seasonal			
Aster			
Flower Seeds			
Others			
Total	0	0	0
Spices			
Coriander			
Ginger			
Methi			
Turmeric			
Fenugreek			
Sonf			
Garlic			
Cumin			
Isabgol			
Chilli			
Onion			
Others			
Total	0	0	0
Fodder Crop			
Barseem			
Oats			
Rice Bean			
Fodder			
Napier Grass			
Fodder slips			
Napier			
Dhaman			
Desmanthus			
Fodder Sorghum			
Anjan grass seed			
Fodder cowpea			
Fodder Maize			
Subabul			
Others			
Total	0	0	0
Fruits			
Cashew			
Guava			
Lime			
Mango			

Walnut			
Sweet Orange			
Others			
Total	0	0	0
Fibre Crops			
Jute			
Sunhemp			
Dhaincha			
Cotton			
Mesta			
Others			
Total	0	0	0
Forest Species			
Pongamia clabra			
Tamarind			
Others			
Total	0	0	0
Others			
Broom Stick			
Elephant Footyam	1	10000	10
Sisbania			
Mushroom spawn			
Mushroom			
Azolla	8.38	41900	421
Walnut			
Others			
Total	9.38	51900	431
Medicinal Plant			
Arnebia benthani			
Rehum emodi			
Others- **Ekangi**	3	33000	75
Total	3	33000	75

Production of Planting Materials

	Number	Value (Rs.)	Distributed to No. of farmers
Vegetable Seedling			
Tomato	960	3840	44
Cauliflower			
Brinjal	1104	4416	63
Bell Pepper			
Chilli	66	264	15
Onion			
Broccoli	960	3840	59
Bottle Gourd			
Cucumber			

Capsicum	960	3840	78
Cabbage	600	2400	35
Knol-khol			
Parsley			
Celery			
Lettuce			
Kale			
Cucurbits			
Radish			
Colocassia			
Dioscorea			
Elephant foot yam			
Winter vegetables			
Bitter gourd			
Sponge gourd			
Pumpkin			
Summer squash			
Curry leaf			
Drumstick	2034	40680	50
Muskmelon			
Ridgegourd			
Watermelon			
Chiller			
Papaya	50	1000	10
Pointed gourd			
Tomato, Brinjal, Cabbage, Chilli			
Agathi			
Amaranthus			
Annual Moringa			
Ivy Gourd			
Sweet Potato			
Acidlime			
Amla			
Annona			
Aonla Sapota			
Others- Turnip	455	1820	80
Total	**7189**	**62100**	**434**
Commercial			
Erythrina			
Mulberry			
Sugarcane			
Others			
Total	**0**	**0**	**0**
Fruits			
Mango			

Pineapple			
Lemon			
Jack fruit			
Aonla			
Lime			
Lasora			
Ber			
Bel			
Papaya			
Apple			
Pomegranate			
Cherry			
Apricot			
Plum			
Pear			
Peach			
Pecan nut			
Perssimon			
Walnut			
Almond			
Strawberry			
Quince			
Banana			
Litchi			
Guava			
Woodapple			
Citrus			
Orange			
Cashewnut			
Sapota			
Citrus Lemon	28	560	28
Gauva (Grafted)			
Mango graft			
Passion fruit			
Rough lemon			
Tree bean			
Causterd Apple			
Koruna			
Karonda			
Sahjan			
Malta			
Peach, Plum, Apricot			
Coconut			
Drumstick			
Fig			

Grape			
Jamberi			
Jamun			
Kokum			
Tamarind			
Budded Ber			
Date palm			
Gunda			
Kinnow			
Lasoda			
Sweet orange			
Banana, Mango, Litchi, Guava			
E.apple			
Lemon graft			
Papaya seedlings			
Bilumbi			
Carambole			
Chamba			
Chinese Orange			
Egg Fruit			
Indian gooseberry			
Jamba			
Javel			
Bitter Lime			
loveloli			
Mangosteen			
Rambootan			
West Indian cherry			
Others			
Total	**28**	**560**	**28**
Ornamental plants			
Mari gold			
Ornamental			
Tuberose			
Chrysenthemum			
Sesanal Flower			
Rose			
Daheliya			
Crotan			
China Palm			
Lilly			
Bush Plants			
Acalifa			
Aster			
Bamboo			

Boganvelia			
Gaillardia			
Nishigandha			
Others			
Ashok			
Cassia			
Chandni			
Duranta			
Iryfine			
Tikoma			
Gladioli			
Mandarin			
Rat rani, Champa etc.			
Gladiolus corms			
Allamanda			
Anthurium			
Arelia			
Bush Jasmine			
Coleus			
Euphorbia			
Exocaria			
Flowering Plants			
Foliage Plants			
Heliconia			
Taberna			
Orchid			
Amruthaballi			
Chakramuni			
Herbs			
Others			
Total	**0**	**0**	**0**
Medicinal and Aromatic			
Seabuckthorn			
Lavender			
Rose			
Dioscorea			
Peomia			
Surruria			
Senecio			
Lemon grass			
Mentha			
Satawer			
Butch			
Akarkara			
Citronella			

Pipli			
Papaya			
Others			
Total	**0**	**0**	**0**
Plantation			
Arecanut			
Coconut			
Cardamom			
Fodder			
Polpar			
Shisham			
Jetropha			
Teak			
Siris			
Acacia			
Neem			
Beetlenut			
Cashew			
Karanj			
Teak			
Fodder Toussek			
Drumstick			
Cachew			
Coffee			
Rubber			
Others			
Total	**0**	**0**	**0**
Spices			
Chilli			
Black pepgper			
Cinnamon			
Peppar			
Fennel			
Ginger			
Onion			
All Spices			
Bush Pepper			
Cardamom			
Cinnamon			
Curry Leaf			
Nutmeg graft			
Others			
Total	**0**	**0**	**0**
Tuber			
Tapioca			

Others			
Total	**0**	**0**	**0**
Forest Species			
Forest Sp			
Poplar			
Gamhar			
Accacia			
Avenues			
Badam			
Bamboo			
Casurina			
Date palm			
Eucalyptus			
Ficus			
Glyricidia			
Guava			
Jathropha			
Kada			
Karanj			
Khirni			
Mahuwa			
Neem			
Pangara			
Pongamia			
Teak			
A. senegal			
Desi babool			
Desi ber			
Khairi			
Khejri			
Peltaforum			
Rohida			
A mangium			
Bamboo cuttings			
Salap			
Sandal wood			
Subabool			
Ailanthus			
Copper shield			
Fig			
Gulmohar			
Jatropha			
Kumil			
Magagony			
Mangium			

Maruthu			
Pathimugam			
Peoples Tree			
Thespesia			
Pungam			
Silver Oak			
Sima roubha			
simaruba			
Tamarind			
Vagai			
Vengai			
Others			
Total	**0**	**0**	**0**
Fodder crop			
Napier			
Setaria			
Sesbania			
Sudan Chari			
Gajaraj			
Other Fodder Grasses			
Subabul			
Others			
Total	**0**	**0**	**0**
Others			
Guggule			
Khirni			
Mulato			
Mulberry			
Aloevera			
Jatropha			
Perennial grass (Tusuck)			
Sainjana			
Sugarcane			
Daik			
Chiller			
Fodder			
Mentha			
Napier Bajra			
Tobacco			
Others			
Total	**0**	**0**	**0**
Forest Species			
Poplar			
Cupressus			
Wllichiana			

Taxus			
Bamboo			
Tun			
Others			
Total	**0**	**0**	**0**
GRAND TOTAL	**7217**	**62660**	**462**

PRODUCTION OF BIO-PRODUCTS

KVK:

Bio Product	Name of the Bio-Product	Quantity (No.)	Quantity (Kg.)	Value (Rs.)	Number of farmers
Bio Fertilisers					
Non Symbiotic Azotobacter					
Vermicompost	Vermicompost		28	280	11
Azolla			656	32800	350
Earthworms		20000		20000	20
Compost					
Worms					
Blue green algae					
NADEP					
Sanjeewani Khad					
Acetobactor					
Aspergillius					
Azatobactor					
Azospirillum					
BGA					
HaNPV					
KMB					
PSB					
Rhizobium					
Jawahar Biofertilizer					
Jawahar vermin compost					
Azolla culture					
Total		**20000**	**684**	**53080**	**381**
Bio-Food					
Spirulina					
Bio Pesticides					
Neem extract					
Tobacco extract					
Trichoderma viride					
Beauveria bassiana					
Metarhizium anisopliae					
Sl NPV					

Ha NPV					
GF1					
Azatobactor					
Baco Lures					
Heli Lures					
Leucin Lures					
Neem powder					
Neumoria					
NSKE					
Paeciliomyces					
Panchagavya					
Verticillium					
Trichoderma harjinum					
Agroneem					
NPV					
Trichoderma					
Pseudomonas fluorescens					
Trichogramma chilonis					
Total		0	0	0	0
Bio Agents					
Tricho card					
Trichogramma chilonis	Trichogramma chilonis				
Chrysoperla carnea					
Tricho card					
Total		**0**	**0**	**0**	**0**
Pyrilla parasitoids					
Ooincirtus papilionis	Ooincirtus papilionis				
Epiricania melanolauca	Epiricania melanolauca				
Total		**0**	**0**	**0**	**0**
Worms					
Assinia foetida					
Eudrilus eugeniae					
Total		**0**	**0**	**0**	**0**
Earth Worm					
Euclnia Uginae					
Eisenia foetida		20000		20000	20
Earth worm					
Earth worms in numbers					
Total		**20000**	**0**	**20000**	**20**
Bio-Fungicides					
Trichoderma		0			
Pseudomonas fluerensence					
Verticillium					
PSB					
Rhizobium					
Azotobactor					
Vermi cocoons					

Agro Derma					
Crysoparla					
NADEP					
Trichoderma viridae					
Beauveria bassiana (Balsamo) Vuillemin					
Metarrhizium anisopliae (Metchnikoff)					
Total		**0**	**0**	**0**	**0**
Others					
Vermiculture					
Mushroom spawn	Oister		38	3800	190
Cuelure					
Mineral Mixture					
Coir pith compost					
Cow dung (dry)					
Cow dung (wet)					
Total		**0**	**38**	**3800**	**190**
	Grand Total	**40000**	**722**	**76880**	**591**

PRODUCTION OF LIVESTOCK

KVK **Rathindra KVK, Birbhum**

		Breed	**Number**	**Value (Rs)**	**No. of farmers**
Dairy animals	Cow				
	Calves				
	Goats				
	Buffaloes				
	Sheep				
	Breeding bull				
	Total		0	0	0
Poultry	Poultry	Coloured broiler	30	1800	5
	Japanese quail	*Coturnix coturnix japonica*	290	14500	15
	Japanese quail eggs		250	250	12
	Ducks				
	Turkey				
	Other				
	Total		570	16550	32
Piggery	Piglets				
	Boar				

	Sow				
	Total		0	0	0
Rabbitry			0		
	Total		0	0	0
Fisheries	Indian carp				
	Exotic carp				
	Other				
	Total		0	0	0

Name of KVK : Rathindra KVK, Visva-Bharati, Sriniketan, WB.

Frontline Demonstrations: Other than CFLD oilseed and pulses

Category and Crop	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield
				Demonstration	Check	
Cereals						
Wheat		17	2.87	41.4	31.2	23
Weed management in rice		60	20	59.4	51.1	16
Millets						
Vegetable crops						
Drumstick		45	2.46	Growing stage		
Flower crops						
Ornamental crops						
Fruit crops						
Spices and condiments						
Commercial crops						
Medicinal and aromatic plants						
Ekangi		32	0.39	130	New introduction	
Fodder crops						
Maize		1.4	35	392	282	39
Rice bean		0.7	35	350	New introduction	
Oat		0.3	11	301	97.7	208
Plantation crops						
Fiber crops						
Others						
Herbicide use in summer pulse		82	10	9.8	6.7	46
Green manuring- Azolla		75	20	62.8	51.2	23
Intercropping- Oat+ lentil		7	2	Oat-230 Lentil- 7.6	New introduction	

Livestock

Category	No. of KVKs	No. of Farmer	No.of units
Dairy			
Cow			
Buffalo			
Poultry			
Broiler- Water sanitizer		30	30
Rabbitry			
Piggery			
Sheep and goat			
Black Bengal		55	10
Duckery			
Others			
Japanese Quail		30	30
Total		**115**	**70**

Fisheries

Category	No. of KVKs	No. of Farmer	No. of units
Common carps			
Fish feed		10	10
Mussels			
Ornamental fishes			
Others (pl.specify)			
Bhetki		10	10

Other enterprises

Category	No. of KVKs	No. of Farmer	No.of units
Oyster mushroom			
Button mushroom			
Vermicompost			
Sericulture			
Apiculture			
Others (pl.specify)			

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations
Women			
Pregnant women			
Adolescent Girl			
Other women	**Participatory video making**	**1**	**10**
Children			
Neonates			
Infants			
Children	Backyard nutrition garden with HYV of *rabi* vegetable	1	28

Farm implements and machinery

Name of the implement	Crop	No. of KVKs	No. of Farmer	Area (ha)
Drum Seeder	Paddy	1	17	7.2
Cono Weeder	Paddy	1	17	7.2

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter		
				Demo	Local check	% change
Cereals						
Bajra						
Maize						
Paddy						
Sorghum						
Wheat						
Others (pl.specify)						
Total						
Oilseeds						
Castor						
Mustard						
Safflower						
Sesame						
Sunflower						
Groundnut						
Soybean						
Others (pl.specify)						
Total						
Pulses						
Greengram						
Blackgram						
Bengalgram						
Redgram						
Others (pl.specify)						
Total						
Vegetable crops						
Bottle gourd						
Capsicum						
Cucumber						
Tomato						
Brinjal						
Okra						
Onion						
Potato						
Field bean						
Others (pl.specify)						
Crop	**Name of the Hybrid**	**No. of farmers**	**Area (ha)**	**Yield (kg/ha) / major parameter**		
				Demo	**Local check**	**% change**

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

Number of soil, water and plant analysis at KVK

State	Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)	No. of Soil Health Card issued
	Soil	123	123	24	8800	123
	Soil					
	Soil					
Total	**Soil**	**123**	**123**	**24**	**8800**	**123**
	Plant					
	Plant	21	21	15	0	0
Total	**Plant**	**21**	**21**	**15**	**0**	**0**
	Water					
	Water	52	52	12	0	0
Total	**Water**	**52**	**52**	**12**	**0**	**0**
	Manure	11	11	10	0	0