PROFORMA FOR ANNUAL REPORT OF KVKS, 2015-16

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Rice Research Station Wangbal, Thoubal-795138	Office	FAX	kvkthoubal@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Department of Agriculture, Government of Manipur, Sanjenthong Imphal-795001.	-	-	amdmn@nic.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.M.Thoithoi Singh		9856282339	thoithoi_pp@yahoo.co.in

1.4. Year of sanction: 16th Nov.,2005

1.5. Staff Position **(As on 31st March, 2016)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator								
2	Subject Matter Specialist	N.Tomba Singh	SMS (Agronomy)	Agronomy	15,600-39100 GP 5400 -P.B-3	21220	20-7-07	Permanent	Gen
3	Subject Matter Specialist	Dr.M.Thoithoi Singh	i/c,Programme Coordinator SMS (Plant protection)	Plant protection	15,600-39100 GP 5400 -P.B-3	21220	20-7-07	-do-	-do-
4	Subject Matter Specialist	S.Sumangal Singh	SMS (Plant Breeding & Genetics)	PBG	15,600-39100 GP 5400 -P.B-3	21220	20-7-07	-do-	-do-
5	Subject Matter Specialist	Dr.Y.Bedajit Singh	SMS (Fisheries)	Fisheries	15,600-39100 GP 5400 -P.B-3	21220	12-4-07	-do-	-do-
6	Subject Matter Specialist	Dr.S.Zeshmarani	SMS (Vety &A.H.)	Vety & A.H	15,600-39100 GP 5400 -P.B-3	21220	12-4-07	-do-	-do-
7	Subject Matter Specialist	Kh.Premlata Devi	SMS (Horticulture)	Horticulture	15,600-39100 GP 5400 -P.B-3	21220	12-4-07	-do-	SC
8	Programme Assistant	R.K.Lembisana Devi	Prog.Asst.(Home Sc.)	Home Science	9300-34,800 GP 4200-P.B-2	12930	12-4-07	-do-	Gen
9	Computer Programmer	L.Babita Devi	Prog.Asst.(Computer)	Computer	9300-34,800 GP 4200-P.B-2	12930	12-4-07	-do-	-do-
10	Farm Manager	W.Jiten Singh	Farm Manager		9300-34,800 GP 4200-P.B-2	12930	12-4-07	-do-	OBC
11	Accountant / Superintendent								

12	Stenographer	M.Geeta Devi	Jr.Steno cum Computer operator		5200-20,200 GP 2400-P.B-1	10190	12-4-07	-do-	-do-
13	Driver	M.Hemanta Singh	Driver cum Mechanic		5200-20,200 GP 2000-P.B-1	7970	12-4-07	-do	-do-
14	Driver	Th.Tiken Singh	-do-		5200-20,200 GP 2000-P.B-1	7970	03-5-07	-do	-do-
15	Supporting staff	S.Dhabali Singh	Peon cum Chowkidar		5200-20,200 GP 1800-P.B-1	7100	12-4-07	-do-	-do-
16	Supporting staff	Mangminthang Zou	-do-		5200-20,200 GP 1800-P.B-1	7100	12-4-07	-do-	ST

1.6. a. Total land with KVK (in ha) : 10 ha

b. Total cultivable land with KVK (in ha): 7.5 ha

c. Total cultivated land (in ha):

S. No.	Item	Area (ha)
1	Under Buildings(Administrative building+ Staff Quarters)	0.055
2.	Under Demonstration Units	0.016
3.	Under Crops(Cereals, pulses, oilseeds etc.)	5.4
4.	Under vegetales	2.32
5.	Orchard/Agro-forestry	1.52
6	Others (specify)	0.809

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	Within 12 months.	550(Ground floor)	76,33,000	Dec,2007	550(1st floor)	Work in good progress.
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters (5)	-do-	31-3-12		67.90	2-1-12		Completed
4.	Demonstration Units (2)	-do-	31-3-12		20.07	2-1-12		Completed
5	Fencing	-do-	31-3-12	215m	19.75	2-1-12		Completed
6	Rain Water harvesting system							

7	Threshing floor	Host	15.4.2015					Completed
8	Farm godown	Host	15.4.2015					Completed

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Bolero, Diesel jeep		2006-07	5,08,657	(62344)	Bad
Tractor, complete set		2006-07	4,35,543	(1116)	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer withj accessories(2nos.)	March 2010	75,000	Good
Fax	March,2010	25,000	Good

Photo copier	March,2010	1,00,000	Good
Digital Camera	March,2010	20,000	Good
LCD projector	March,2010	1,00,000	Good
Portable carp hatchery	March,2010	2,25,000	Good

1.8. A). Details SAC meeting* conducted in the year 2015-16 enclosed in annexure

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	9-03-2016	1)Louis Ngasainao, Director of Agriculture Manipur 2) N.Sarat Singh, District Agriculture Officer, Thoubal 3) S.Ranjit kumar, District Officer (Hort. & S.C.) Thoubal 4)R.K Biswajit Singh, District Sericulture Officer,Thoubal 5) Dr.P.Gojendro Singh, Jt. Director/ Vety. & A.H.Office, Thoubal 6) Y.Santi Singh, District Fishery Officer, Thoubal 7)L.Dhaneshor Singh, Manager, SBI Thoubal Branch 8) Md.Hifjur Rahman, Project Director, ATMA, Thoubal 9)K.Sanaton Sharma, Rice Breeder, RRS Wangbal	Suggested to adopt paddy cum fish wherever possible Suggested to indicate suitable breed for the region	

		10)A.Deben Singh, S.I(Police) dept. Thoubal 11)Mohd.Rujajuddin Khan, ATM, ATMA, Thoubal 12) Two representative from male farmer i) Shri L.Rajen Singh, (Thoubal Wangmataba) ii) Shri James Singh (Tentha) 13. Two representative from female farmer i) Smt.W . Bimola Devi (Laiphrakpam Mayai Leikai) ii) Smt Ibechoubi Devi (Umathel) 14) Dr.M.Thoithoi Singh, Programme Coordinator ,KVK Thoubal	Suggested to include state released var. in trial & demonstration. Enquired about facilities for water harvesting structure.	

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Agriculture
2.	Agriculture-Horticulture
3.	Agriculture-Horticulture-Animal Husbandry
4.	Agriculture-Horticulture-Fishery
5.	Agriculture-Animal Husbandry-Fishery
6.	Agriculture-Fishery
7.	Fishery
8	Vety & A.H
9	Agriculture-vety & A.H

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1.	Sub tropical plain zone	The agro-climatic zone of the Thoubal dist. May be characterized by diverse soil type ranging from clay, clay loam, silty loam to peat and muck soil, high rainfall and high RH with distinct temperature variation between summer and winter, wide cultural diversity with different cropping pattern from fruits (pine apple, banana, mango), Vegetables (cauliflower, cabbage, brinjal, tomato), paddy, pulses and oil seeds, fish and farm animals. The district has the following topographical structures:- upland, medium land and low land and shallow lakes.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Fine, Umbric Dystrochrepts Fine, Typic Haplo	Deep, excessively drained fine soils moderately steep side slopes of hills having clayey surface with moderate erosion, associated with deep well drained fine soils on moderately sloping side slopes of hills with moderate erosion and slight stoniness.	3500

	humults.		
2.	Fine Typic, Haplo humults Fine, Loamy Umbric Dystrochrepts	Deep, well drained, fine soils on moderately sloping side slopes of hills having loamy surface with moderate erosion, associated with moderately deep, excessively drained fine loamy soils on moderately steep side slopes of hills with moderate erosion and slight stoniness.	14,803.2
3.	Fine, Typic Haplaquepts Fine Ruptic Ultic Dystrochrepts	Deep, poorly drained, fine soils on nearly level valleys having clayey surface with very slight erosion, ground water table between one to two meters of the surface and slight flooding, associated with deep well drained fine soils on gently sloping side slopes of hills with slight erosion.	6251
4.	Very fine, molic haplaquepts	Deep ,very poorly drained, very find soils on nearly valleys having clayey surface with very slight erosion ground water level between one meter of the surface and severe flooding associated with deep, poorly drained fine soils on very gently sloping valleys with slight erosion ground water table between one to two meters of the surface and slight flooding.	22,373.8
5.	Fine, Typic Hapludalfs, Fine Silty Tupic Haplumbrepts	Deep, somewhat excessively drained, fine soils on sloping side slopes of hillocks having clayey surface with moderate to severe erosion associated with well drained fine silty soils on moderately sloping side slopes of hillocks with moderate erosion.	4572

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Paddy			
	i) Pre kharif	6235	2,18,225	35.00
	ii) Kharif	24850	10,43,700	42.00
	iii) Improved	10,570	2,43,110	23.00
	iv) Local paddy	1200	19200	16.00
2.	Maize	310	7440	24.00
3.	Kharif pulses	190	1482	7.80
4.	Kharif oilseeds	150	11700	7.80
5.	Sugarcane	830	12,45,000	1,500,00
6.	Rabi pulses	2325	27900	12.00
7.	Rabi oilseeds	3050	51850	17.00
8.	Potato	905	89595	99.00
9.	Cole crops	2246	87,000	112.9

10	Chilli	350	2,800	8.00
11.	Pineapple	2,530	16, 00,000	800.00
12.	Wheat	50	1100	22.00

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April,2015	29.7	35.0	12.0	77.5
May,2015	177.0	34.0	16.0	76
June,2015	180.6	35.0	21.0	74
July,2015	116.4	34.0	19.0	77
August,2015	152.6	33.0	21.0	76
Sep,2015	55.8	33.0	19.0	84
Oct,2015	84.2	33.0	10.0	74
Nov,2015		24.0	8.0	78
Dec,2015		25.0	5.0	75
Jan,2016	77.0	25.0	5.0	71.5
Feb,2016	16.0	25.0	3.0	63
March,2016	9.6	32.0	8.0	55.5

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	14166	47584lit/d	18lit/d
Indigenous	69784	37832lit/d	4lit/d
Buffalo	6079	2961lit/d	3lit/d

Sheep			
Crossbred			
Indigenous	318	2845kg	11kg/sheep
Goats	2540	18,650kg	12kg/goat
Pigs			
Crossbred	35184	925tonnes	75kg/pig
Indigenous	3760	57.8tonnes	52kg/pig
Rabbits			
Poultry			
Hens	62383	26,49,840eggs/year	120eggs/year/hen
Desi	122865	40,36,340eggs/year	220eggs/year
Improved	94500	47,12,780eggs/year	130eggs/year
Ducks	94371	12,220kg	20kg/turkey
Turkey and others	611		

Category	**Area**	**Production**	**Productivity**
Fish	**504**	**3.84**	**200 kg / ha**
Marine			
Inland			
Prawn			

Scampi			
Shrimp			

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2015-16)

Sl.No.	**Taluk/ Eleka**	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
		Thoubal	Yairipok	Paddy	Lack of suitablecultivation practice,fertilizer use and pest management	ICM,SRI,Hybrid Rice, INM,Balanced Fertilizer and IPM
				Goat farming	No vaccination,castration and improper feeding and housing	Goat farming with less input and vaccination
				Fishery	Lack of knowledge of scientific fish farming	Composite fish culture
			Maibam	Paddy	Varietal admixture, improper cultivation methods	ICM,SRI,Hybrid Rice, INM,Balanced Fertilizer and IPM
				Horticulture (Cole crops)	Lack of proper variety and pest management	Winter vegetables like cagbbage cauliflower, Broccoli and IPM

			Charangpat	Paddy	Varietal admixture, improper cultivation methods	ICM,SRI,Hybrid Rice, INM,Balanced Fertilizer and IPM
				Horticulture (Green chilli)	Lack of knowledge of summer vegetable varieties and pest management	Summer vegetable, Corm Cultivation and IPM
				Pig farming	No, vaccination, improper feeding and breed	Vaccination, Castration and Housing
			Uyan	Paddy	Varietal Admixture, improper cultivation technique and pest management	ICM,SRI,Hybrid Rice, INM,Balanced Fertilizer and IPM
				Oilseeds & Pulses	Limited area under oilseed and pulses	Pulses and oilseed cultivation
				Poultry Farming	Lack of scientific knowledge of poultry farming	Broiler farming, vaccination
				Piggery	No vaccination, castration and improper housing	Pig rearing, vaccination
			Uchiwa	Paddy	Injudicious use of fertilizers, Pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. of paddy.
				Fishery	Lack of knowledge for Scientific fish farming.	Scientific fish farming.

				Pig farming	Lack of knowledge for Integrated fish cum pig farming.	Integrated fish cum pig farming
			Sangai yumpham	Paddy	Injudicious use of fertilizers, pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. of paddy.
				Poultry farming	Problems in feeding readymade feeds.	Feeding management with locally available feeds.
			Wanging	Paddy	Injudicious use of fertilizers, Pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. Of paddy.
				Poultry farming	Problems in feeding readymade feeds.	Feeding management with locally available feeds.
				Horticulture (Green chilli)	Die Back, fruit rot.	Integrated pest management.
			Lilong	Vegetable crops (Cabbage, cauliflower, onion, broad bean)	Selection of variety, Lack of knowledge of cultivation techniques.	Varietal demonstration & new cultivation techniques.
			Nongpok Sekmai	Paddy	Injudicious fertilizers used,lack of suitable cultivation technique	ICM,SRI,Hybrid Rice, INM,Balanced Fertilizer and IPM
				Oilseed & pulses	Not grown	Pulses & oilseed cultivtaion

		Kakching	Thongjao	Paddy	Injudicious use of fertilizers, Pest and diseases problem, Varietal admixture, failure of crop due to error in planting season	Integrated pest management, Integrated nutrient management, Balance fertilization, Seed prodn. Of paddy, varietal trails.
				Fishery	Lack of Knowledge of Disease management	Fish Health management.
				Pig farming	Reduce body weight, preweaning mortality.	Piggery management.
			Umathel	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Oilseeds & pulses	Lack of knowledge of oilseed & pulses cultivation	Scientific pulse & oilseed cultivation
			Waikhong	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Pig farming	No vaccination & castration	Vaccination & castration
			Serou	Maize	Lack of suitable maize varieties & its cultivation technique	Proper composite & hybrid varieties,intercropping of maize with pulses & oilseeds

			Wangoo	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Fishery	Lack of scientific fish culture	Composite fish culture
			Wabagai	Paddy	Lack of suitable cultivation technique	ICM,SRI,hybrid rice cultivation
				Horticulture (Chilli, cole crops)	Lack of relay cropping & pest management	Relay cropping with beans and cucurbits,IPM
				Fishery	Lack of scientific fish culture	Composite fish culture,integrated fish farming
				Potato	Improper variety & lack of nutrient & pest management	Kufri varieties,IPM,INM
				Tomato	Improper variety & lack of nutrient & pest management	IPM,INM,Hybrid varieties
			Sekmaijin	Paddy	Injudicious use of fertilizer,pesticides & lack of proper cultivation method	SRI,INM,Intercropping of paddy with pulses & oilseed crops
				Fish	Lack of scientific fish culture	Composite fish culture,integrated fish farming

			Tokpaching	Paddy	Lack of deep water rice varieties,nutrient & pest management	Deep water rice varieties,nutrient & pest management
				Horticulture	Lack of knowledge of summer veg. crops & its cultivation techniques in upland areas.	Crops of summer season,growing of crops across the slopes & proper irrigation techniques

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2015-16

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy					5	5	25	25
PBG					2	2	10	10
Plant protection	2	2	16	16	2	2	20	20
Horticulture	2	2	10	10	2	2	10	10

Vety & A.H	**3**	**3**	**15**	**15**	**2**	**2**	**20**	**20**
Fishery	**2**	**2**	**11**	**11**	**2**	**2**	**14**	**14**
Home Science	**1**	**1**	**5**	**5**	**2**	**2**	**6**	**6**
Total	**10**	**10**	**57**	**57**	**17**	**17**	**105**	**105**

Note: Target must be as set during last Action Plan Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					**Extension Activities**			
3					**4**			
Number of Courses			**Number of Participants**		**Number of activities**		**Number of participants**	
Clientele	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Farmers					3	3	200	220
Rural youth					1	1	50	55
Extn. Functionaries								
Total					4	4	250	275

Seed Production (ton.)		**Planting material (Nos. in lakh)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**

Note: Target must be as set during last Action Plan Workshop

3. B. Abstract of interventions undertaken during 2015-16

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal trial of Pusa Shree	Garden pea	Farmers are unware of high yield & production	Varietal trial of Pusa Shree		Varietal trial of Pusa Shree		Field visit, TV programme, exposure visits	
2	Varietal trial of cabbage	Cabbage	Farmers are unware of production in short duration	Varietal trial of cabbage		Varietal trial of cabbage		Field visit, TV programme, exposure visits	
3	IPM	Sugarcane	Shoot and borer termites	Shoot and borer termite mgmt		Shoot and borer termite mgmt		Field visit, TV programme, exposure visits	

4	Disease management	Onion	Purple blotch	Management of purple blotch of onion with		Management of purple blotch of onion with		Field visit, TV programme, exposure visits	
5	Poultry mgmt	broiler	Mortality % high during starter period	Growth performance of broiler by feeding *coriandrum sativum* seed power		Growth performance of broiler by feeding *coriandrum sativum* seed power		Field visit, TV programme, exposure visits	
6	IFS	Duck-paddy	Practice of monoculture	Integrated duck cum paddy culture		Integrated duck cum paddy culture		Field visit, TV programme, exposure visits	
7	Piggery management	Pig	Most common diseases of sow at post patum leading to mortality of piglet and sow	Treatment of Mastitis metritis Agalactia complex syndrome in post partum sow by using Benzathine penicillin-48 lakh unit		Treatment of Mastitis metritis Agalactia complex syndrome in post partum sow by using Benzathine penicillin-48 lakh unit		Field visit, TV programme, exposure visits	
8	Seed production	Bangana devdevi	Unavailability of seed due to low survival of seed leading to low B.C ratio	Seed production of Bangana devdevi(khabak)		Seed production of Bangana devdevi(khabak)		Field visit, TV programme, exposure visits	Seed

9	Culture of endemic carp	Osteobrama belangeri	Low B.C ratio due to unawareness of stocking density and their ratios	Stocking of 10000 fingerlings per ha in the ratio of 40:30:30 (pengba:grasscarp: silvercarp)		Stocking of 10000 fingerlings per ha in the ratio of 40:30:30 (pengba:grasscarp: silvercarp)		Field visit, TV programme, exposure visits	
10	Dyeing	Organic dye	Not aware of locally available mordant	Improving colour fastness of cotton fabric with naural dye		Improving colour fastness of cotton fabric with naural dye		Field visit, TV programme, exposure visits	
11	Seed production	CAU R1	Yield of rice under wet sowing and normal transplanting is not satisfactory		Seed prodn. of rice through SRI	Seed prodn. of rice through SRI		Field visit, TV programme, exposure visits	Seed
12	Cereal production	Maize	Large scale popularization of lentil is not yet practice in the district		Cultivation of maize for green cob purpose	Cultivation of maize for green cob purpose		Field visit, TV programme, exposure visits	Seed
13	Oilseed production	Mustard	Large scale popularization of lentil is not yet practice in the district		Zero tillage mustard cultivation	Zero tillage mustard cultivation		Field visit, TV programme, exposure visits	Seed
14	Pulse production	Lentil	Large scale popularization of lentil is not yet practice in the district		Zero tillage lentil cultivation	Zero tillage lentil cultivation		Field visit, TV programme, exposure visits	Seed

15	Pulse production	Chickpea	Large scale popularization of lentil is not yet practice in the district		Varietal demonstration of chick pea var JG- 16	Varietal demonstration of chick pea var JG- 16		Field visit, TV programme, exposure visits	Seed
16	IPM	ladiesFinger	Problem of white flies and viral diseases		Insect pest mgmt. with Cyantraniliprole(HGW 8610% OD) at 90 gm a.i/ha	Insect pest mgmt. with Cyantraniliprole(HGW 8610% OD) at 90 gm a.i/ha		Field visit, TV programme, exposure visits	
17	IPM	Tomato	Problem of white flies and mitesin tomato		Insect pest mgmt. with Spiromesifen(white flies & mites)	Insect pest mgmt. with Spiromesifen(white flies & mites)		Field visit, TV programme, exposure visits	
18	Poultry production	Broiler	Mortality percentage is high during early stage		Feeding of probiotic in broiler	Feeding of probiotic in broiler		Field visit, TV programme, exposure visits	
19	Poultry production	Geese	Improper feeding management		Performance of geese by feeding locally available feed supplemeted with vitamin and mineral	Performance of geese by feeding locally available feed supplemeted with vitamin and mineral		Field visit, TV programme, exposure visits	
19	Seed production	Fish Cum paddy	Low availability of grass carp seed		Seed production of grasscarp in pady field	Seed production of grasscarp in pady field		Field visit, TV programme, exposure visits	seed

20	Seed production	Barb	Unavailability of barb seed		Seed production of barb	Seed production of barb		Field visit, TV programme, exposure visits	seed
21	Storage technique grains	Seed Storage	Seed viability seed storage and insect pest infestation		Demonstration on seed storage technique using RC seed bean	Demonstration on seed storage technique using RC seed bean		Field visit, TV programme, exposure visits	
22	Energy saving devices/ tools	Solar cooker	Cost of fuel for cooking is very high		Demonstration on solar cooker	Demonstration on solar cooker		Field visit, TV programme, exposure visits	
23	Varietal evalution	onion	Low productivity and high flowering in existing variety		Cultivation of Onion (Var. Bhima Shakti)	Cultivation of Onion (Var. Bhima Shakti)		Field visit, TV programme, exposure visits	
24	Varietal evalution	cauliflower	Low productivity in existing variety		Cultivation of Cauliflower(Pusa Snowball KT-25)	Cultivation of Cauliflower(Pusa Snowball KT-25)		Field visit, TV programme, exposure visits	

3.1 Achievements on technologies assessed and refined during 2015-16

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial	Vegetables	Fruits	Flower	Plantation	Tuber	TOTAL

				Crops				**crops**	**Crops**	
Varietal Evaluation	1	1			4					6
Seed / Plant production										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management				1						1
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	1	1		1	5					8

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

A.2. Abstract of the number of technologies **refined*** in respect of crops/enterprises

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										

Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitary**	**Fisheries**	**TOTAL**
Evaluation of Breeds							1	1
Nutrition Management		1						1
Disease of Management					1			1
Value Addition								
Production and Management							1	1
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL		1			1		2	4

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitry**	**Fisheries**	**TOTAL**
Evaluation of Breeds								

Nutrition Management								
Disease of Management								
Value Addition								
Production and Management		1						1
Feed and Fodder								
Small Scale income generating enterprises								
Total		1						1

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
1	Varietal Trial of Pusa Shree	Farmers are unaware of high yield & prodn. in short duration	Varietal trial of garden pea pusa shree Spacing : 30 x 10 cm NPK kg/ha: 30:60:60 As basal dose	Garden pea	5	i)Plant ht.-75 cm ii)No. of branch/plant-7-10 iii)Pod length- 6.3 cm iv)No. of pods/pl. 45-50 v)Days to maturity-50-55 days	Satisfied, ready to adopt this technology in future	Suitable in the region. Ready for large scale demonstration	3.3
2	Varietal trail of cabbage	Farmers are unaware of prodn. In short duration	Varietal trial of Pusa Cabbage Hybrid 1 Spacing : 45 x 30 cm NPK kg/ha: 120:60:60	cabbage	5	1. Head wt-0.985 gm 2. Days to maturity -50-60	Satisfied, ready to adopt this technology in future	Suitable in the region. Ready for large scale demonstration	4.7

			Full dose P & K as basal dose Half dose of N at 20 days after transplanting Remaining half at 45days						
3	Shoot borer and termite mgnt	Shoot and borer termites	Shoot borer and termite mgmt. with Thiametoxam @ 200gm a.i/ ha and Metarhiziwm anisophilae @ 500gm/ha (ctu 109/gm	sugarcane	8	Percet early shoot borer damaged 30 DAP = 60 DAP = 90 DAP= Termite mound 30 DAP = 60 DAP = 90 DAP = ,Yield = Farmers Imidachloprid 70 % wa @ 200gm a.i/ha Termite mound			2.93

						30 DAP = 60 DAP = 90 DAP = ,Yield =			
4			Mgmt. of purple blotch of onion with Hexaconazole 0.005%						
5	Growth performance of broiler by feeding *coriandrum sativum* seed powder	Mortality % is high especially duing starter period	*Coriandrum sativum* seed powder are given @ 2% of feed in broiler	broiler	5	**Technology** i. Body weight of broiler at 6 wks -2.4 kg ii. Feed conversion efficiency – 1.79 iii. Survibility% - 97.33	At first farmers not readily accepted but when the performance increases they were very much satisfied	With the addition of *Coriandrum sativum* seed powder performance of the bird is very good	1.45
6	Treatment of Mastitis Metritis Agalactia complex	Most common disease of sow at post parturition leading to mortality of piglet and	*48 lakh unit of Benzathine Penicillin is injected one week ahead of parturition to sow*	Sow/ pig	5	**i. Litter size at birth (13.8)** **ii. Litter size at weaning**	Farmers readily accepted the technology	Occurrence of this diseases is minimum when sows were injected with medicine	3.6:1

	syndrome in post partum Sow by using Benzathine Penicillin-48 lakh unit	sow				**(12.2)** **iii. Litter weight at birth (450g)** **iv. Litter weight at weaning (4800g)**			
7	Integrated duck cum paddy culture	Practice of monoculture	*300ducks per ha rice field*	Duck and rice	5	**A.Effect on yield on rice** **i. no.oftiller/hill-11** **ii.No. of grain/pannicle -150** **B.Effect on insect population -90% reduction** **C. Effect on weed population – 95%** **D. Growth performance of duck at 6mnth-1.7(1.7kg)**	Farmers readilty accepted this technology	Ready for large scale demonstration	2.33:1
8	Seed production of *Bangana devdevi*	Unavailability of seed due to low survival of seed leading to low B:C ratio	*Stocking at the rate of 20,00000 spawn/ha*	*Bangana devdevi* (endemic minor carp)	5	**i) Survivability of seed (30%)** **ii) Growth of seed (107mm in 3 months)** **iii) B:C ratio (5.27)**	Farmers readily accepted the technology	Success of the seed production of Bangana dev devi is one of the breakthrough in aquaculture which enables the	5.27

	(Khabak							farmers to includeone of the potential candidate spp in diversified aquaculture to production as well as socio economic status of the farmer	
9	Culture of *Osteobrama belangeri* along with Chinese carps	Low B:C ratio due to unawarenes s of stocking densities and their ratios	*Stocking of 10000 fingerlings per hacter in the ratio of 40:30:30 (Pengba: Grass carp: Silvercarp)*	*Osteobrama belangeri (Endemic minor carp)*	6	**1. Growth of fish in11 months** **Pengba – 187mm** **Grass carp – 480mm** **Silver carp - 415 mm** **2. B:C ratio – 5.4**	Farmers readily accepted the technology	*O.belangeri* is the state Fish of Manipur and one of the potential candidate spp for aquaculture which can increase production as well as benefit cost ration	5.4
10	**Improvi ng colour fastness of cotton fabric with natural**	**Not aware of locally available mordant**	***Natural dyeing 1.5kg c****ucuma longa with 2 litre of water*	***Organic dye***	5	**1.Acidic medium(Alpinia nigera + dye(250gm)) = reddish brown** **2.Alkaline medium (Dye + citrus hystrix(heiribop) = golden brown**	Weavers of the district want to adopt this technology as this materials are easily available and also improves the colour fastness of	**By used of mordant a number of different shades of colours can be obtained from a single dye sources.**	

	dye					**3.Neutral medium (Dye + water) =pale yellow** **Colour fastnes to washing-negligible change**	the fabric		

Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practice***

3.2 Achievements of Frontline Demonstrations during 2015-16

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2015-16 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Rice	Seed production of rice through ICM	5	5	1.25
2	Maize	Sping maize	5	5	1.25
3	Cauliflower	INM in cauliflower using	5	5	0.5
4	Tomato	INM in tomato using vermicompost	5	5	0.5
5	Watermelon	Cultivation of water melon variety NS-295	5	5	0.75

6	Rice	Hopper management with Ethiprol 40% + Emidaclorprid 40%	5	5	1.25
7	Bitter gourd	Management of fruit fly with chlorantriniprole	5	5	0.75
8	Onion	Mgmt of thrifts using maize as trap crop	5	5	0.50
9	Rice	Seed production of rice through SRI var Tampha	10	10	2.5

**** Thematic areas as given in Table 3.1 (A1 and A2)***

b. Details of FLDs conducted during reporting period (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1.	Rice	Seed production	Seed prodn. of rice through SRI	Kharif 2015	5	5	1	9	10	NA	irrigated			
2.	Maize	Cob and grain production	Cultivation of maize for green cob purpose	Kharif 2015	2.5	2.5	1	4	5	NA	Rainfed			

3	Lentil	Pulse production	Zero tillage cultivation of lentil var. HUL -57 seed rate 50 kg/ ha sowing 4 days after harvesting rice	Rabi 2015	5	5	2	8	10	NA	Rainfed			
4	Mustard	Oilseed production	Zero tillage cultivation of lentil var. NRCHB-101 seed rate 15 kg/ ha sowing 4 days after harvesting rice	Rabi 2015	5	5		10	10	NA	Rainfed			
5	Chickpea	Pulse production	Demonstration of chickpea cultivation seed rate 60kg/ha var. JG-16	Rabi 2015	1.25	1.25	1	4	5	NA	Rainfed			
6	Lady finger	IPM	Insect pest mgmt. with Cyantranilip role(HGW 8610% OD) at 90 gm a.i/ha	Summer 2015	1.25	1.25	2	8	10	NA	Irrigated			

7	Tomato	IPM	Insect pest mgmt. with Spiromesifen(white flies & mites)	Summer 2015	1.25	1.25	1	9	10		Irrigated			
8	Rice	Seed production	Spring season seed production under SRI	Spring 2015										
9	Rice	Seed production	Spring season seed production under SRI	Spring 2015										

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	**Rice**	Seed production	**5**	**81.4**	**45**	**44.71**	**88.8**	**75**			**55,000**	**122100**	**67100**	**2.22**				
2	Maize	Cob and	2.5	101859	84800	16.75	109696	96800			31223	254647	223424	8.15				

		grain production		nos	nos		nos	nos										
3	Lentil	Pulse production	5	5.0	-		6.0	4.3			11800	30000	18200	2.54				
4	Mustard	Oilseed production	5	7.7	7.2	6	9.2	6.4			8000	19250	11250	2.4				
5	chickpea	Pulse production	1.25	6.36			7.0	6.36			20750	38160	17410	1.83				
6	Ladies finger	IPM	1.25	8.0	7.4	8.1	9.02	7.56			58500	20300	144500	3.47				
7	Tomato	IPM	1.25	2.17	2.01	7.96	7.56	1.93			77230	434030	356800	5.62				
8	Rice	Seed production		45	36	25	46	42			45000	99000	54000	2.2				
9	Rice	Seed production		79	54	46.3	82	78			55000	173800	118800	3.16				
10	Onion																	
11	cauliflower																	

***H-Highest recorded yield, L- Lowest recorded yield**

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

e. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

**** Field efficiency, labour saving etc.***

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Poultry	Feeding management	Feeding of probiotic in broiler	10	10	200	**iBody weight at 6 wks (2.23kg) ii. Feed conversion efficiency (1.72) iii. Survibility(98%)**	**iBody weight at 6 wks (1.85kg) ii. Feed conversion efficiency (1.45) iii. Survibility (84%)**	**iBody weight at 6 wks (17) ii. Feed conversion efficiency (15.6) iii. Survibility (14.28)**			15031.36	24050.18	9018.81	1.6	13149.23	17097	3947.77	1.3	
2	Poultry	Feeding management	Performance of geese by feeding locally available	10	10	70	**iBody wt tat 8mnth (4.6kg) ii. surrvibility**	**iBody wt tat 8mnth (4.0kg) ii. surrvibility**	**iBody wt tat 8mnth (13) ii. surrvibility %**			11750	24300	12550	2.4	10750	16500	5750	1.54	

			feed supplemeted with vitamins and minerals				**%** **(99)** **iii.Hatchability%** **(79)**	**%** **(86)** **iii.Hatchability%** **(42)**	**(13)** **iii.Hatchability%** **(46)**											

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

(iii) Fisheries

Sl. No.	**Category, e.g. Common carp, ornamental fish etc.**	**Thematic area**	**Name of Technology**	**No. of farmers**	**No. of units**	**No. of fish/ fingerlings**	**Major Performance parameters / indicators**		**% change in the parameter**	**Other parameters (if any)**		**Econ. of demo. (Rs./Ha.)**				**Econ. of check (Rs./Ha.)**				**Remarks**
							Demo	**Check**		**Demo**	**Check**	**GC ****	**GR ****	**NR ****	**BCR ****	**GC**	**GR**	**NR**	**BCR**	
1	Grasscarp+pa	Seed productio	7	7	7	1400000spawn	**i) Survivabi**	**i) Survivabi**	**i) Survivabi**			254	530	275	2.0	25000	50250	252	2.01	

	ddy	n					**lity of seed 30-35% ii) Growth of seed 246 mm wt-165gm in 5 months iii) Yield of rice 3.57ton/ha iv) B:C ratio 2.08**	**lity of seed 20-25% ii) Growth of seed 245 mm wt166gm in 5 mnths iii) Yield of rice3 .51ton/ha iv) B:C ratio 2.01**	**lity of seed 10 ii) Growth of seed 0.4,0 .6 iii) Yield of rice17 iv) B:C ratio 19.7**			81	00	19	8			50		
2	barb	Seed production	7	7	7	1400000spawn	**i) Survivability of**	**i) Survivability of**	**i) Survivability of**			8000	3840	3040	4.8	8000	32080	2408	4.01	

							seed 47% **ii) Growth of seed 101 mm wt 52 gm in 5 months** **iii) B:C ratio 4.8**	**seed** 30% **ii) Growth of seed 10mm wt 50 gm in 5 mnths** **iii) B:C ratio 4.01**	**seed 17** **ii) Growth of seed 1,4** **iii) B:C ratio 19.7**				0	0				0		

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

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

(iv) Other enterprises

Sl. No.	**Category/ Enterprise, e.g., mushroom,**	**Thematic area**	**Name of Technology**	**No. of farmers**	**No. of units**	**Major Performance parameters / indicators**		**% change in the parameter**	**Other parameters (if any)**		**Econ. of demo. (Rs./Ha.)**				**Econ. of check (Rs./Ha.)**				**Remarks**
									Demo	**Check**	**GC***	**GR***	**NR***	**BCR***	**GC**	**GR**	**NR**	**BC**	
						Dem													

	vermicompost, apiculture etc.					**o**	**Check**	**r**			*	*	*	*				**R**	

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

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

(v) Farm Implements and Machinery

Sl. No.	**Name of implement**	**Crop**	**Name of Technology demonstrated**	**No. of farmers**	**Area (In ha.)**	**Field observation (Output/ man-hours)**		**% change in the parameter**	**Labour reduction (Man days)**	**Cost reduction (Rs. per ha. or Rs. per unit etc.)**	**Remarks**
						Demo	**Check**				

f. Performance of FLD on Crop Hybrids

Sl. No.	**Crop**	**Name of hybrids**	**Area (ha.)**	**No. of farmers**	**Avg. yield (Q/ha.)**		**% increase in Avg. yield**	**Additional data on demo. yield (Q/ha.)**		**Econ. of demo. (Rs./Ha.)**				**Econ. of check (Rs./Ha.)**			
					Demo.	**Check**		**H***	**L***	**GC****	**GR****	**NR****	**BCR****	**GC**	**GR**	**NR**	**BCR**

H-Highest recorded yield, L- Lowest recorded yield

****** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

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

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	Grand Total (x + y)
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																					
II. Horticulture																					
a) Vegetable Crops																					
Production of low volume and high value crops																					
Off-season vegetables																					
Nursery raising																					
Exotic vegetables like Broccoli																					
Export potential vegetables																					
Grading and standardizatio																					

n																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						

Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management																						

technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	1		1	19		4		19								19	-	4	-	19	-	19
Soil and Water																						

Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	1		1	19		4		23								19		4		23	-	23
IV Livestock Production and Management																						
Dairy Management	1		1	11		12		23								11		12		23		23
Poultry Management																						
Piggery Management																						
Rabbit																						

Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	1	2																				
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	1		1							4		6		10	-	4	-	6	-	10	-	10
Value addition	1		1	13				13		2				15			15					15
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Plant Protection																						
Integrated Pest Management																						
Integrated Disease																						

Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater prawn																						
Breeding and culture of ornamental fishes																						

IX Production of Inputs at site																					
Seed Production																					
Planting material production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
TOTAL																					

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies	1		1	16				16								16				16		16
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						

Integrated Crop Management	8		8		139		50		189							139		50		189		189
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	7		7	83		73		156		13		5		18		93		78		171		171
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation																						

(Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit	1		1	2		5		25							20		5		25		25
Management of young plants/orchards																					
Rejuvenation of old orchards																					
Export potential fruits																					
Micro irrigation systems of orchards																					
Plant propagation techniques																					

c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management technology	1		1	13		12		25								13		12		25		25
Processing and value																						

addition																						
f) Spices																						
Production and Management technology	1		1	8		12		20								8		12		20		20
Processing and value addition	1		1	9		13		21								9		13		21		21
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	4		4	70					70							70				70		70
Soil and Water Conservation																						
Integrated Nutrient																						

Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management	2		2	26		12		38								26		12		38		38
Poultry Management	2		2	16		35		51								16		35		51		51
Piggery Management	5		5	51		40		91		16		3		19		67		94		161		161
Rabbit Management																						
Disease Management																						

Feed management																						
Production of quality animal products																						
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	4		4	10		30		40		10		30		40		20		60		80		80
Gender mainstreaming through SHGs																						

Storage loss minimization techniques	2		2	10		30		40								10		30		40		40
Value addition	2		2	2		21		23		4		11			15				33	33		39
Income generation activities for empowerment of rural Women	3		3	5		30		30		10		40		50		15		65		80		80
Location specific drudgery reduction technologies																						
Rural Crafts	1		1			1		13													13	13
Women and child care																						
VI Plant Protection																						
Integrated Pest Management	8		8		47		51		98	77		33		110		145		128		273		273
Integrated Disease Management																						
Bio-control of pests and diseases																						

Production of bio control agents and bio pesticides																					
VII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management	3		3	38		4		40		6		1		7		44		5		47		47
Carp fry and fingerling rearing																					
Composite fish culture	5		5	99		32		131								99		32		131		131
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																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
Organic manures																						

production																						
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						

Entrepreneurial development of farmers/youths	1		1							19		8		27		19		8		27		27
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL																						

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes

(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						

Vermi-culture			1		19				19								19				19	19
Sericulture																						
Protected cultivation of vegetable crops	1		1	15		3		18							15			3		18		18
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		1	1		23		8		41								20		8		41	41

Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production		1	1		19		4		23								19		4		23	23
Ornamental fisheries																						
Para vets																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology		1	1		52		15		67		3		1		4		55		16		71	71
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

3.3.4. Achievements on Training of <u>Rural Youth</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Mushroom Production	2		2	19		20		20								19		20		39		39
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming	1		1	32				32								32				32		32
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						

Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying	1		1	14		4		18								14		4		18		18
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit																						

farming																					
Poultry production	3		3	21		58		79								21		58		79		79
Ornamental fisheries	1		1	9		9		9								9				9		9
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						

Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

C. Extension Personnel

3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes

(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	(x + y)
Productivity enhancement in field crops																						
Integrated Pest Management																						
Integrated Nutrient																						

management																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						

3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off *	Total	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off*	Off	Sp Off *	Off	Sp Off*	Off	Sp Off *	
Productivity enhancement in field crops																						
Integrated Pest Management																						
Integrated Nutrient management																						
Rejuvenation of old																						

orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL																						

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Vety &AH	Fodder production	Fodder production round the year	4.5.15	1	On campus	farmers	23	8	31				23	8	31
Vety & AH	Poultry management	Scientific poultry farming	15.2.15	1	On campus	farmers	19	4	23				19	4	23
PBG	Cereal crops	1)Situation specific rice varieties of Manipur 2) Description of crop varieties	30.3.16 17-6-15	1 1	On	PF,sponsored	30 13	10 3	40 16	3		3	33 13	10 3	43 16
Plant protectio	Vermicom	Vermicom	28.3.16	1		PF sponsored	19	0	1				19	0	19

n	posting	posting							9						
Horticulture	Veg. prodn.	Off season veg. prodn.	21.5.15	1	On	RY	15	3	18				15	3	18
Home Sc.	Storage	'0' energy cool chamber	11.11.15	1	On	PF								12	12
	Value addtion	Processing of value added tomato products	25.1.16	1	On	PF		15	15					15	15
Fishery	Skill development	Setting up of Aquarium	24-7-15	1	ON	RY	9	1	10				9	1	10
	Fish harvest post harvest mgmt.	Fish harvest post harvest mgmt.	14-2-16	1	ON	RY	52	15	67	3	1	4	55	16	71

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Vety & AH	Piggery mgmt	Scientific pig farming	7.5.15	1	Salungpham mamang leikai	Farmer	7	12	19				7	12	19
Vety & AH	-do-	Common diseases of pig and their treatment	22.6.15	1	Salungpham maning leikai	Farmer	18	2	20				18	2	20
Vety & AH	Poultry mgmt	Scientific broiler farming	2.7.15	1	Thongjao	Farm women				4	24	28	4	24	28
Vety & A.H	Dairy mgmt	Profitable dairy farming	2.8.15	1	Tentha	Farmer	8	10	21	3	2	5	11	12	23
Vety & AH	Piggery mgmt	Chemical castration of piglet	5.8.15	1	tekcham	Farmer	18	9	27				18	9	27

Vety & AH	IFS	Integrated farming system	17.10.15	1	langmeidong	RY	25		25				25		25
Vety & AH	Poultry mgmt	Scientific broiler farming	8.11.15	1	Khongjom	Farmer	12	11	23				12	11	23
Vety & AH	Piggery mgmt	Scientific Pig farming	8.12.15	1	komnao	Farmer	16	3	19				16	3	19
Vety & AH	Poultry mgmt	Scientific broiler farming	19.1.16	1	langathel	RY	4	19	23				4	19	23
Vety & AH	Poultry mgmt	Scientific broiler farming	9.2.16	1	tentha	RY	1	21	22				1	21	22
Vety & AH	Poultry mgmt	**backyard poultry farming**	14.3.16	1	sangaiyumpham	RY	16	18	34				16	18	34
Vety & AH	Disease mgmt	Diseases management of dairy cattle	17.3.16	1	tekcham	Farmer	16	4	20				16	4	20

PBG	Seed prodn.	Rogueing in rice seed prodn.	25.5.15	1	Wabagai(Keithel macha)	RY	13	11	24				13	11	24
		Spring rice cultivation of Rice var. RCM-13	23.4.15	1	Sekmaijin Mamang Leikai	PF	15	6	21				15	6	21
	Oilseed crop	Zero tillage mustard	28.11.15	1	Sekmaijin Mamang leikai	PF	32	4	36				32	4	36
	Integrated farming system	Integration of vegetable with fish	12.1.15	1	Tentha	PF	20		20				20		20
	Cereal crop	Raising nursery for hybrid rice	22.6.15	1	Thongjao	PF				27	3	30	27	3	30
		Cultivation of hybrid rice	12.8.15	1	Kakching	PF				23	7	30	23	7	30
		Harvesting of hybrid rice	10.10.15	1	Uchiwa	PF	26	4	30			26	4	30	30
	Spices	Cultivation of King Chilli	13.1.16	1	Leiphrakpam	PF	20	0	20			20	0	20	20
	Mushroom Cultiv	Mushroom cultivation	4.4.15	1	Sabaltongba	RY	4	16	20				4	16	20

Plant Protection	ation		6.4.15	1	Sabaltongba Mamang		15	4	19				15	4	19
	Pest Management	1)Pest management of maize 2) Pest management of rice	7.4.15 10.6.15	1 1	Serou Khekman	PF PF	14 3	6 30	20 33				14 3	6 30	20 33
	Organic farming	Organic farming	10.10.15	1	Hayen Hangoon	RY	32	0	32				32	0	32
	Pest management	Hopper management of rice	10.10.15	1	Samran Khunou,	PF	17	9	26				17	9	26
		Pest mngt. of sugarcane	10.10.15	1	Laipham Khunou	PF				21	6	27	21	6	27
		Pest mngt. of mango	10.10.15	1	Kakching					26	7	33	26	7	33
		Pest mngt. of potato	10.10.15	1	Sikhong		13	6	19				13	6	19
	Organic farmi	Organic farming	10.10.15	1	HayenHangoon	PF	16	0	16				16	0	16

	ng														
	Pest mngt.	Pest mngt. of potato	8.3.16	1	Loushi loukol	PF				26	7	33	26	7	33
			19.3.16	1	Kakching	PF				4	13	17	4	13	17
	Agricultural marketing	Agricultural marketing	28.12.15	1	Kakching, Laipham loknung	PF				19	8	27	19	8	27
Home Sc.	Value addition	Value addition of tamarind	24.4.15	1	Wangjing	PF	8	9	17				8	9	17
		Value addition of fish	4.8.15	1	Laphupat	PF	4	20	24				4	20	24
		Preparation of guava	24.9.15	1	Kakching	PF	5	15	20				5	15	20
		Preparation of value added tomato products	23.10.15	1	Wangjing	PF		11	11					11	11
		Value added products of fish	1.3.16	1	Laipham Loknung	PF	4	11	15				4	11	15
		Salt curing of fish	18.3.16	1	Yangdong	PF	4	11	15				4	11	15
	Stora	Seed storage	16.5.15	1	Wabagai	PF		12	12					12	12

	ge techn ique														
	Post harve st	Post harvest mngt. of cereals	29.6.15	1	Wangjing Hodamba	PF	6	11	17				6	11	17
	Dyein g	Mordanting of organic dye	17.2.16	1	Kiyam	PF		11	11					11	11
Agronom y	Rice cultiv ation	SRI	4-2-16	1	Elangkhan gpokpi	**Farmer & Farm women**	16	4	20				16	4	20
	Rice	Cultivation of rice	16-3-16	1	Langmeit hek	-do-	11	8	19				11	8	19
	Rice	Mgt.of pre-kharif rice	22-3-16	1	Waithou	-do-	18	7	25				18	7	25
Horticultu re	Post harve st	Post harvest technology of bulb crops.	29-4-15	1	Keirak	-do-	9	13	22				9	13	22
	Nutri ent mgm t	Use of micro nutrient	26-6-15	1	Kakching	-do-				1 3	5	18	13	5	18
	Veget able prod uctio n	Improved package of practices of garden pea	24-9-15	1	-do-	-do-				8	22	30	8	22	30

	Fruit production	Propagation techniques of fruits	23-10-15	1	Wangjing	-do-	20	5	25				20	5	25
	Vegetable production	Scientific cultivation of early cauliflower	24-11-15	1	Charangpat	-do-	12	7	19				12	7	19
	Tuber crops	Scientific cultivation of potato	9-12-15	1	Yangdong	-do-	13	12	25				13	12	25
	Vegetable crops	Method cultivation in vegetable crop	23-1-16	1	Kakching	-do-				21	17	38	21	17	38
	INM	INM in cole crops	30-1-16	1	Wangjing	-do-	15	5	20				15	5	20
	Spice crop	Cultivation of chilli	19-2-16	1	Heirok	-do-	8	12	20				8	12	20
	Vegetable production	Cultivation of bean	22-2-16	1	Phouden	-do-	11	9	20				11	9	20
	-do-	Improved cultivation of cucurbit	15-3-1`6	1	Tejpur	-do-	24	2	26				24	2	26

	-do-	-do-	21-3-16	1	Phouden	-do-	2	16	18				2	16	18
Fishery	Fish	Seed production of carps	5-5-15	2	Arong, Tentha	-do-	22	2	24	6	1	7	24	7	31
	Fish	Water quality mgmt	17-7-15	1	Langmeidong	-do-	15	6	21				15	6	21
	Fish	Fish health mgmt	20-9-15	1	Sekmaijing	-do-	29	9	38				29	9	38
	Fish	Seed production of climbing perch	13-10-15	1	Oinam	-do-	16	2	18				16	2	18
	Fish	Scientific fish farming	29-1-16	3	Sekmaijing, Wabagai, On cam,pus	-do-	55	17	72				55	17	72

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Home Sc.	2.6.15	1	Value addition	Value addtion of fruits & veg		15	15											

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants			Sponsoring Agency	Amount of fund received (Rs.)
							General	SC/ST	Total		

							M	F	T	M	F	T	M	F	T		
on	F	4.5.15	1	Vety &A.H	Fodder	Fodder production round the year	23	8	31				23	8	31	YVU Thoubal	2000
On	F	15.2.16	1	Vety &A.H	Poultry mgmt	Scientific broiler mgmt	28	5	33				28	5	33	Americo nltd India	5000
Total																	

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2015-16

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	**Advisory services**			**300**	**200**	**50**	**250**	**30**	**20**	**50**				**250**	**50**	**300**
2.	Diagnostic visit			**150**	**110**	**25**	**135**	**10**	**5**	**15**				**120**	**30**	**150**
3.	Field day			**1**	**50**	**5**	**55**	**5**		**5**				**55**	**5**	**60**
4.	Group Discussion			**3**	**40**	**10**	**50**	**5**	**5**	**10**				**50**	**10**	**60**
5.	Kishan Gosthi			**1**	**25**	**5**	**30**	**3**		**3**				**30**	**3**	**33**
	Kishan Mela			**1**	**78**	**15**	**93**	**4**	**2**	**6**				**93**	**6**	**99**
6.	Film show															
7.	SHG formation															

8.	Exhibition			1	70	10	80	10	5	15				80	15	95
9.	Scientists visit to farmers fields			70	30	15	45	20	5	25				125	25	150
10.	Plant/ Animal Health camp															
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration															
15.	Celebration of important days															
16.	Exposure visits															
17.	Electronic media (CD/DVD)															
18.	Extension literature			8												
19.	Newspaper coverage			12												
20.	Popular articles			48												
21.	Radio talk			22												
22.	TV talk			20												
23.	Training manual															
24.	Soil health camp															
25.	Awareness camp															
26.	Lecture delivered as resource person			52												
27.	PRA															
28.	Farmer-Scientist interaction			2	10	4	14	5	7	12				14	12	26
29.	Soil test campaign			5	50	5	55	10	10	20				55	20	75

30.	Mahila Mandal Convener meet															
31.	Any other (Please specify)															
32.																
Grand Total																

3.5 Production and supply of Technological products during 2015-16

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS							
OILSEEDS							
PULSES							
VEGETABLES							

FLOWER CROPS							
OTHERS (Specify)							

A1. SUMMARY of Production and supply of Seed Materials during 2015-16

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	10.22	2,24,928			Not yet sale
2	OILSEEDS					
3	PULSES					
6	OTHERS					
TOTAL						

B. Production of Planting Materials (Nos. in lakh)

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2015-16

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits					
2	Spices					
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)					
TOTAL						

C. Production of Bio-Products during 2015-16

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1								
2								
3								

4								
BIO PESTICIDES								
1								
4								

D. Production of livestock during 2015-16

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							
	Goat	**Non descript goat**	**39**	**585**	**1,17,000**	**Not yet sale**		
	Piggery	**Crossbred piglet**	**10**			**Not yet sale**		
	Poultry	**geese**	**8**	**32**	**8000**	**Not yet sale**		

	Fisheries	**Carp**	**0.1 lakh**	**10kg**	**0.05lakh**			
		Barp	**0.1lakh**	**10kg**	**0.05lakh**			
	Others (Specify)							

D1. SUMMARY of production of livestock during 2015-16

Sl. No.	**Livestock category**	**Breed**	**Quantity**		**Value (Rs.)**	**Number of Recipient beneficiaries**		**Total number of Recipient beneficiaries**
			Nos	**(kg)**		**General**	**SC/ST**	
1	CATTLE	**Non descript local**	**2**	**280**	**40000**	**Not yet sale**		
2	SHEEP & GOAT	**Non descript**	**39**	**585**	**1,170,000**	**Not yet sale**		
3	POULTRY	**geese**	**8**	**32**	**8000**	**Not yet sale**		
4.	PIGGERY							
5	FISHERIES	**Carp** **Barp**	**0.1 lakh** **0.1 lakh**	**10kg** **10kg**	**0.05 lakh** **0.05lakh**			
6	OTHERS (Pl. specify)							
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2015-16

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):_____

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Captive breeding of air breathing loach, Lepido cephalichthys beromorei for conservation of spices and sustainable utilization in Journal of applied Zoological Research	Y. Bedajit	1000
2.	Comparative studies in different stocking densities of Duck in Duck cum fish culture in Thoubal District, Manipur in Advances in life science	S. Zeshmarani & Y. Bedajit	1000
3.			
Training manuals			
Technical Report			
1.			
2.			
3.			
Book/ Book Chapter	1.	i.	
Popular articles	A.Swine Fever Management of dairy cattle Turkey farming	S.Zeshmarani	1000

	Transportation of pig Breeding of rabbits Dystocia in cattle Probiotic feeding in dairy cattle Summer management of broiler Calf scour B. Used of weedicide Cultivation of ladies finger Bakana disease of rice Timely used of weedicide C.Baby corn Scientific cultivation of Ginger Scientific cultivation of Broccoli	M.Thoithoi Singh S.Sumangal Singh	
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
Any other (Pl. specify)			
TOTAL			

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced

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

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

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 for

- Identification of courses for farmers/farm women
- Rural Youth
- Extension personnel

3.11 Field activities

i. Number of villages adopted

ii. No. of farm families selected

iii. No. of survey/PRA conducted

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

1. Year of establishment :2016
2. List of equipments purchased with amount : Rs. 1,09,856/-

Sl. No	Name of the Equipment	Qty.	Cost
1	PUSA Digital STFR Meter Kit	1	Rs.53000/-
2	Extra Reagent	100 samples	Rs.14000/-
3	CST@5% and Courier Charge		6150/-
4	Glass distillation unit	1	20640/-
5	Distilled water 5 lit.	10	4700/-
6	Stainless steel sieve 2mm dia. And 0.5 mm	2	7000
7	MVAT @ 13.5%		4366
Total			**109856**

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	250	250	10	1,25,000/-
Water Samples				
Plant Samples				
Petiole Samples				
Total				1,25,000/-

3.13. Details of SMS/ Voice Calls sent on various priority areas

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text			**24**	**2079**										

only														
Voice only														
Voice and Text both														
Total			**24**	**2079**										

3.14 Contingency planning for 2015-16

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Proposed Measure**	**Proposed Area (In ha.) to be covered**	**Number of beneficiaries proposed to be covered**		
			General	**SC/ST**	**Total**
	Introduction of new variety or crop				
	Introduction of Resource Conservation Technologies				
	Distribution of seeds and planting materials				
	Any other (Please specify)				

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any	**Number of birds/ animals to**	**No. of programmes to be**	**No. of camps to be organized**	**Proposed number of animals/ birds to be covered through camps**	**Number of beneficiaries proposed to be covered**

other please specify)	be distributed	undertaken			General	SC/ST	Total

4.0. IMPACT

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

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

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

4.2. Cases of large scale adoption

1. Hybrid rice: The introduction of hybrid rice : PAC-801, PAC-807, Arise-^$$$, Arise 6444 (gold) and Prima has enabled the farmers to increase their income. It is now spread to all the valley district of Manipur. The Department of Agriculture Manipur also distributed these hybrid seeds at free of cost to the farmers through RKVY scheme. Use of Hybrid seeds enabled farmers to adopt new technologies of rice cultivation and increase their income to the tune of Rs. 45,000 against 35,000 by using local HYVs

2. Zero tillage mustard cultivation has been adopted by the farmers since long time back using local mustard varieties with the introduction of new mustard and rapeseed varieties like M-27, TS-36, TS-38,NRCHB -101, Pusa boldetc. Farmers are now using these varieties in zero tillage cultivation during rabi season in rice fallows

3. With the introduction of new hybrids of pumpkin and watermelon by the KVK, several farmers adopted these crops in large scale in rice fallows during spring season getting extra income of Rs.3,20,000/ha with little investment from rice fields increasing the cropping intensity in rice areas

4. The introduction of Chemical castration of pig by the KVK encourage the farmers to take up chemical castration instead of open method of castration as it reduces the cost of castration and injury to the piglets

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1.	
2.	
3.	

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2015-16

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2015-16

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Ay other									
Spices & Plantation crops									
Vegetables									
i.									
a. Others (specify)									
i.									
ii.									

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

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

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/ species	Type of Produce	Qty.	Cost of inputs	Gross income	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

6.6. Utilization of hostel facilities (Month-Wise) during 2015-16

Accommodation available (No. of beds) :

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total					
Grand total					

Note: (Duration of the training course X No. of trainees)=Trainee days

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Thoubal	11746667259
With KVK	State Bank of India	Thoubal	11746667259
Revolving Fund	State Bank of India	Thoubal	11746667260

7.2 Utilization of funds under FLD on Maize *(Rs. In Lakhs) if applicable*

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2014 -15

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	87	87	87
2	**Traveling allowances**	2.20	2.20	1.64641
3	**Contingencies**	**15.20**	**15.20**	**15.14039**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			

J	Library			
TOTAL (A)		**104.40**	**104.40**	**103.7868**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**	4.00	4.00	4.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**4.00**	**4.00**	**4.00**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**108.40**	**108.40**	**108.40**

7.4 Status of Revolving Fund (Rs. in lakhs) 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
April 2013 to March 2014	3,759	163391		169150
April 2014 to March 2015	169150	58990		188140
April 2015 to March 2016	188140	190748		378888

Note: No KVK must leave this table blank

(Signature)
Programme Coordinator

Annexure

Proceedings of the 11th Scientific Advisory Committee Meeting of Krishi Vigyan Kendra Thoubal held on 9th Feb.,2016 at 11.30 a.m in the conference hall of KVK,Centre with Director,Agri.Manipur in the chair.

The following members were present in the meeting.

1.	Shri Louis Ngasainao	Director,Agriculture Manipur(Chairman)
2.	Dr.P.Gojendro Singh	Jt. Director , DVO Thoubal
3.	Shri Y.Shanti Singh	DFO, Thoubal
4.	Shri L.Dhaneshor Singh	Manager SBI,Thoubal
5.	Shri R.K.Biswajit Singh	Supdt. i/c District Sericulture office,Thoubal
6.	Shri S.Ranjitkumar Singh	D.O Hort & SC,Thoubal
7.	Shri K.Sanaton Sharma	Rice Breeder, RRS,Wangbal
8.	Shri M.Sarat Singh	DAO,Thoubal
9.	Shri Md.Hifjur Rahman	P.D. ATMA, Thoubal
10.	Shri Md.Riyajuddin Khan	ATM, ATMA Thoubal
11.	Smt. W.Bimola Devi	Waikhong Female Farmer Representative
12.	Smt. M. Ibechaobi Leima	Umathel, Female Farmer Representative
13.	Shri Maibam James Singh	Tentha , Male Farmer Representative
14.	Shri L.Rajen Singh	Thoubal Wangmataba, Male Farmer Representative
15.	Dr.M.Thoithoi Singh	Member Secy.

At the very outset, all the members present were welcomed by the Director Agri./Chairman KVK,Thoubal, and spelt out the need and purpose of holding the 11th SAC meeting.

Shri S.Sumangal Singh SMS(PBG) presented the action taken report of last SAC meeting and annual report of the previous year .Further all the SMS in charge of different disciplines undertaken by each SMS/PA were also presented and explained in detail the achievement made in their activities.

Regarding the work on fisheries Chairman suggested to adopt paddy cum fish wherever possible to increase farm income.

Regarding On Farm tesating on piggery, Jt. Director DVO Thoubal suggested to indicate the suitable breed for the region.

Shri K.Sanaton Sharma,Rice Breeder RRS Wangbal also suggested to include some of the state released var. in trial & demonstration.

During the presentation of member secy. management of mites by using Cyantraniliprol ,Shri. Ratan Singh of Chandrakhong, enquired about the type of mite which will be controlled by the Cyantraniliprol . In response to which Dr.M.Thoithoi P.C, KVK,Thoubal replied that all kind of mite will be controlled by Cyantraniliprol.

Smt. M.Ibechaobi Devi of Umathel and Female farmer representative ,KVK,Thoubal also enquired about the availability and facilities for water harvesting structure in response to which Chairman replied that he will instruct to include the activities in RKVY scheme of Thoubal district.

After all the discussion were over the session ended with thanks from chair.

-sd-

(Louis Ngasainao)
Chairman,KVK,Thoubal

Memo No.3/KVK/THBL/SAC/2007 **Dated:- 2/03/2016**

Copy to:-

1.Director ,ATARI,Umiam
2.Members of 11th SAC,KVK,Thoubal

02/03/16

(Dr.M.THOITHOI SINGH)
Member Secretary
KVK,Thoubal