

PROFORMA FOR ANNUAL REPORT OF KVKs, 2014-15

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra (KVK), Khawzawl, PO- khawzawl, Distt.- Champhai (MIZORAM)-796310	03831-261484, 261486	03831- 261485	kvkxhawzawl@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture (R&E), Aizawl, Mizoram- 796 001	0389-2319025	0389-2315784	mizagr@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Lalrinawmi Renthlei	03831-261484	9436159788, 9856229907	kvkxhawzawl@gmail.com

1.4. Year of sanction:

1.5. Staff Position (As on 31st March, 2015)

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	PC	LALRINAWMI RENTHLEI	PC	Horticulture	15,600-39,100+8,000	25,140	1.7.11	Deputation	ST
2	SMS	MALSAWMKIMI	SMS	Horticulture	15,600-39,100+5,400	18,590	03.06.09	Permanent	ST
3	SMS	SAYED KHALIDUDDIN AHMED	SMS	Animal Science	15,600-39,100+5,400	196,90	26.4.08	Permanent	GENERAL

4	SMS	F. ZORAMTHARI	SMS	Plant Protection	15,600-39,100+5,400	18,590	06.6.09	Permanen t	ST
5	SMS	Dr. OM PRAKASH	SMS	Agronomy	15,600-39,100+5,400	18,590	23.6.14	Permanen t	General
6	SMS	J.VANLALHLUZUALI	SMS	Agri. Extension	15,600-39,100+5,400	16,880	09.03.12	Permanen t	ST
7	SMS	VANLALDUATI	SMS	Soil Science	15,600-39,100+5,400	16,880	09.02.15	Permanen t	ST
8	Programme Assistant	LALHRUAILLUANGI	PA (Home Sc)	Home Science	9,300-34,800+4200	13060	1.7.08	Permanen t	ST
9	Computer Programmer	SAMSON SAIRENGPUIA SAILO	PA (Computer)	Computer	9,300-34,800+4200	13060	22.4.08	Permanen t	ST
10	Farm Manager	PRAKASH THAPA	Farm Manager	B.Sc (Agri.)	9,300-34,800+4200	12,550	25.4.08	Permanen t	GENERAL
11	Assistant	K.VANLALHMANG AIHI	Assistant	M.Com	9,300-34,800+4200	13060	29.5.08	Permanen t	ST
12	Stenographer	CRUSADE THANGPUII	Stenographer	B.A	5,200-20,200+2,400	9,390	29.2.08	Permanen t	ST
13	Driver	LALNUNTLUANGA	Driver	-	5,200-20,200+1,900	7,660	29.2.08	Permanen t	ST
14	Driver	R.DENGLIANA	Driver	-	5,200-20,200+1,900	7,660	9.2.08	Permanen t	ST
15	Supporting staff	LALTANPUIA	Supporting staff	-	4,440-7,440+1,300	5,960	10.7.08	Permanen t	ST
16	Supporting staff	LALVENHIMA	Supporting staff	-	4,440-7,440+1,300	5,960	24.7.08	Permanen t	ST
	Total					2,07,430			

- 1.6. a. Total land with KVK (in ha) :17.774
b. Total cultivable land with KVK (in ha) :12
c. Total cultivated land (in ha) :4

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.31
2.	Under Demonstration Units	12.464
3.	Under Crops (Cereals, pulses, oilseeds etc.)	1.5
4.	Under vegetables	1.25
5.	Orchard/Agro-forestry	0.5
6.	Others (specify)	0.75

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	2007	-	-	-	-	Completed
2.	Farmers Hostel	ICAR	2009	-	-	-	-	Completed
3.	Staff Quarters (6)	ICAR	2007	-	-	-	-	Completed
4.	Demonstration Units (2)	ICAR	2007	-	-	-	-	Completed
5	Fencing	ICAR	2009	-	-	-	-	Completed

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Gypsy	MZ-01 D 4086	-	-	-	Running condition
Tractor	MZ-01 D 2246	-	-	-	Running condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD projector	Sept,2008	-	Good
Xerox machine	Sept,2011	-	Good
Computer	Sept,2008/2011	-	Good
Seed analyzer	Sept,2008	-	Good
Refrigerator	Sept,2008	-	Good
Incubator	Sept,2008	-	Good
Oven	Sept,2008	-	NOT WORKING
Grinder	Sept,2008	-	Good
Laptop	Sept,2008	-	Good
T.V.	Sept,2008	-	Good
A.C.	Sept,2008	-	NOT WORKING

1.8. A). Details SAC meeting* conducted in the year 2014-15

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	Nil	Nil	Nil	Nil

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Horticulture + Hybrid maize + Animal Husbandry- Highland (>1250m MSL)
2.	Jhum Paddy + Vegetable + Animal Husbandry- Midland (900- 1250 m MSL)
3.	Wetland Rice + Fish + Winter Vegetables - Low land (< 900 m MSL)

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

Sl. No	Agro-climatic Zone	Characteristics
1	Sub- tropical/ Sub- temperate/ Humid	Some parts of the district like Ngopa&Khawzawl block experience all the three seasons i.e. winter, summer and rains, while in the Champhai valley the temperature ranges from 1-7 ⁰ C for a longer period during winter, severely affecting the crops because of frosty weather. The relative humidity of the region is higher due to heavy rains(2500 mm annually).

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Black Soils		36550 ha
2	Red Soils		89600 ha
3	Alluvial Soils		31000 ha
4	Sandy soil		3600 ha
5	Acid Soils		89600 ha

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Jhum Paddy	4350	4431	0.982
2	Paddy (WRC)	3750	8148	0.460
3	Maize	1660	2345	0.708
4	Rice bean	83	104	0.80
5	Arhar	20	17	1.18
6	Field pea	295	425	0.694
7	Cow Pea	210	231	0.909
8	French Bean	193	401	0.481
9	Soyabean	205	196	1.05
10	Potato	205	2057	0.099
11	Onion	6	34	0.18
12	Brinjal	365	2355	0.154
13	Cauliflower	75	745	0.10

14	Pea	35	150	0.23
15	Carrot	55	393	0.14
16	Cabbage	175	2363	0.07
17	Tomato	31	292	0.11
18	Okra	279	1861.3	0.15
19	Capsicum	25	331.5	0.07
20	Broccoli	16	100.1	0.16
21	Ginger	1008	4969	0.20
22	Turmeric	555	2784	0.20
23	Bird Eye Chilli	1250	6875	0.18

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2014	nil	28	20.25	55
May	-	29.3	23.95	71.6
June	1250	31.8	22.9	81
July	2200	29	23.1	86.8
August	6400	26.25	20.1	94.25
September	3200	28.85	20.9	83.2
October	500	25.65	19.95	74.2
November	nil	23.8	14	65.4
December	nil	19.4	10.1	69.83
January	nil	20	12.95	46.5
February	nil	22.1	11.2	51
March	-	-	-	-

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	346	560 tons	1.6
<i>Indigenous</i>	6663	788 tons	0.12
Buffalo	3053	14 tons	0.0045
Sheep			
<i>Crossbred</i>			
<i>Indigenous</i>	712 & 115	3 tons	-
Goats			
Pigs	24186	437 tons	-
<i>Crossbred</i>	6051	-	-
<i>Indigenous</i>			
Rabbits			

Poultry			
Hens	151607	99 tons	-
<i>Desi</i>	44430		-
<i>Improved</i>	430	-	-
Ducks	346	560 tons	1.6
Turkey and others	6663	788 tons	0.12

2.6 Details of Operational area / Villages (2014-15)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Khawzawl	Khawzawl	Khawzawl	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	<ul style="list-style-type: none"> • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
2.	Khawzawl	Khawzawl	Biate	Jhum paddy + Tea + Orange + Vegetables + Animal Husbandry	<ul style="list-style-type: none"> •Lack of knowledge on crop rotation • No proper post harvest management in tea. •Lack of quality seed of different vegetables •Citrus declining •Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Creating awareness on crop rotation and integrated farming • Training on post harvest management in tea. • Creating awareness for the use of quality seeds in different vegetables. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management and feed and fodder production

3	Khawzawl	Khawzawl	Chawngtlai	WRC+Jhum Paddy Grapes + Ginger Passion fruit + Animal Husbandry	<ul style="list-style-type: none"> •Lack of Training and Pruning of Passion Fruit & Grapes •Improper nursery management in WRC. • Improper nutrient management •Infestation of insect pest and diseases. 	<ul style="list-style-type: none"> • Cultivation practices of Grapes and Passion fruit • IDM on Ginger • Integrated nutrient management • Integrated pest management • Creating awareness for livestock management and feed and fodder production
4.	Champhai	Champhai	Champhai	WRC + Maize + Winter vegetables + Animal Husbandry and Fisheries	<ul style="list-style-type: none"> • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.

5.	Champhai	Champhai	Zotlang	WRC + Jhum paddy +Potato + Winter vegetables + Animal Husbandry	<ul style="list-style-type: none"> • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production
6.	Champhai	Champhai	Hmunhmeltha	Jhum paddy + Vegetables + Animal Husbandry	<ul style="list-style-type: none"> • Lack of knowledge on crop rotation • Lack of quality seed of different vegetables • Citrus declining • Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Creating awareness on crop rotation and integrated farming • Creating awareness for the use of quality seeds in different vegetables. • Creating awareness for livestock management and feed and fodder production

7.	Champhai	Champhai	Tuipui	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	<ul style="list-style-type: none"> • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness towards integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production. 	<ul style="list-style-type: none"> • Nursery management • Integrated nutrient management • Integrated pest management • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
8.	Khawzawl	Khawzawl	Kawlkulh	Jhum paddy + Maize + Banana + Ginger + Animal Husbandry + orange	<ul style="list-style-type: none"> • Lack of awareness towards integrated farming. • Improper nutrient management. • Citrus declining. • Lack of Orchard management 	<ul style="list-style-type: none"> • Creating awareness for adoption of integrated farming. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management
9.	Khawzawl	Khawzawl	Dulte	Jhum paddy + Banana + Maize + Ginger + Vegetables	<ul style="list-style-type: none"> • Lack of Orchard management. • Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming. 	<ul style="list-style-type: none"> • Training on Orchard management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.

3. TECHNICAL ACHIEVEMENTS

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

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
Agonomy	3	3	7	7	4	4	40	40
Horticulture	4	4	8	8	2	2	25	25
Plant protection	4	3	8	6	2	2	25	25
Animal science	2	2	3	3	1	1	15	15
Agril.Extn	3	3	120	100	1	1	50	10
Total	16	15	146	126	10	10	155	115

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	35	31	985	1478	244	461	535	587
Rural youth	2	1	80	19				
Extn. Functionaries	2	2	40	20				
Total	39	31	1105	1259	244	234	535	552
Seed Production (ton.)				Planting material (Nos. in lakh)				
5				6				
Target		Achievement		Target		Achievement		
3		3.215		0.095		0.08		

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

3. B. Abstract of interventions undertaken during 2014-15

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 Evaluation	Sugar cane	Lack of awareness on scientific management & known variety	Varietal Evaluation of CO Jor 1 & 2	Introduction of Maize var RCM 76, its scientific management	-	-	Diagnostic visit, Field day	Planting material, Seeds, Fertilizer etc.
2	Varietal Evaluation	Cow pea	Low yield with local variety & lack of Known variety	Varietal Evaluation variety ArkaSuman	Introduction of Soyabean var RCS 1-9 and its scientific management	-	-	Diagnostic visit,	Seeds, Fertilizer etc.
					Introduction of paddy variety Bhalum-3	Chemical weed mngt in rice.	-	Diagnostic visit, Field day	Seeds, Fertilizer etc.
3	Cropping system	Cropping system	Lack of awareness on cropping system	Cultivation of Rice followed by Field Pea	Intercropping of Maize (Var: DMH 849) with Groundnut (Var: ICGS 76)	-	-	Diagnostic visit, Field day	Seeds, Fertilizer etc.
4	Varietal evaluation	French Bean.	Low yield with local variety	Varietal evaluation of French bean var. arkaSharat&ArkaSuidha				Diagnostic visits	Supply of seed
5		Field pea	Low yield with local variety	Varietal evaluation				Diagnostic visits	Supply of seed
6	Weed management	Onion	Lack of awareness on weed management	Weed management on Onion				Diagnostic visits	Supply of weedicides- Pendimethaline

7	Citrus rejuvenation	M Orange			Rejuvenation of declining M orange	Citrus rejuvenation		Diagnostic visits	Supply of fertilizer etc
8	IPM	Ginger	Low yield due to wilting and rotting of rhizomes and shoot	Management of shoot and rhizome borer in ginger		IPM in Ginger		Diagnostic visits, Farmers Scientist Interaction	Pesticides
9	IPM	Paddy	Low yield due to disease and pest infestation	Integrated pests and diseases management in paddy		Pest and Disease management in Paddy		Diagnostic visits, Field Days, Farmer Scientist interaction	Biopesticides and Pesticides
10	IPM	Mustard	Severe infestation of aphids on Mustard resulting in yield loss	Efficacy of Neem against Mustard aphids				Diagnostic visits	Biopesticides and Pesticides
11	IDM	Tomato	Low yield due to wilting	Integrated Management of bacterial wilt in tomato		Pest and Disease mngt in Tomato		Diagnostic visits, Farmer Scientist interaction	Bactericides, Bleaching powder and Bioforp
12	Feed and Fodder	Maize	Lack of awareness on quality fodder production	Cultivation of Maize as fodder					Seeds

3.1 Achievements on technologies assessed and refined during 2014-15

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1		1		3					5
Seed / Plant production										
Weed Management					1					1
Integrated Crop					2					2

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.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 Evaluation on of CO Jor 1 & 2	Lack of awareness on scientific management & known variety	Varietal Evaluation	Sugarcane	2	-	-	-	ongoing
2	Varietal Evaluation on variety ArkaSuman	Low yield with local variety & lack of Known variety	Varietal Evaluation	Cow pea	2	Only vegetative growth. No pod formation even after 150 DAS	It is good for leafy vegetables (consumed as boils)	-	Failed
3	Cultivation of Rice followed by Field Pea	Lack of awareness on cropping system	Cropping system	Cropping system	3	No. of hills / sq m - 16 No. of tillers / sq m - 224 No. of effective tillers/ sq m - 192 No. of grains / panicle - 138 Yield/ha – 2.54 t Pea - Failed		-	1.86

4	Varietal evaluation of French bean Var. ArkaSharat&ArkaSavidha	Low yield with local variety	Introduction of French bean var. ArkaSharat&Savidha	French bean	2	No of pods /ha a)43(ArkaSharat) b)35 (ArkaSavidha) c)22(Local) Average Plant height (cm) a)42 b)40 c)45 Averageweight of pods(g) a)14.1 b)12.95 c)13.5 Average length of pods(cm) a)17.6 b)16.5 c) 19 Yield/ha(q) a)78.5 b)72 c) 63.	The farmers were motivated on seeing the performance of the variety due to their productivity and easy management asstaking is not required	The varieties are free from pests and diseases	B.C . Ratio 2.09 1.92 1.69
5	2) Performance of Field pea wilt resistance var. VL matar 45	Low yield with local variety	Introduction of Field pea var. VL matar 45	Field pea	2	i)Average plant height(cm) 156 38 (Arkel) ii)Average no of pod/plant 12 38 iii)Average no of seed/pod 7	Though the vegetative growth is performing well, productivity is low due to shortage of water by the month of	Farmers are not willing to continue since the variety is long duration crop and required watering by the month of	1.3 2.8

						10 iv) Yield (q/ha) a) Green pod: 40 68.5 b) Seed yield (q/ha) 6.3 7.5 v) crop duration 160 days 90 days	February since the variety is long duration crop	February/ march. But, if early sowing can be done this problem could have solve.	
6	weed management in Onion	Lack of awareness on weed management on Onion	Introduction of weed management in Onion	Onion	2	A. Weed population)No of weed/ sq m(30 days after transplanting) Treated 3 Farmers practice 22 ii)60 days after transplanting Treated 7 Farmers practice 33 iii)90 day s after transplanting Treated 9	Farmers were motivated after seeing the effectiveness of using Pendimethaline. Pendimethaline is cost effective compared to hand weeding as labour cost is very high		3.3 2.8

						Farmers practice 46 B. i)Yield/hac(q) 126.5(treated) (Farmers practice) 96			
7	Management of shoot and rhizome borer in ginger	Low yield due to wilting and rotting of rhizomes and shoot	1. Spraying of Dimethoate @2ml/lit. 2. Spraying of Chlorpyriphos @ 2ml/lit. 3. Spraying of Flubendiamide @ 75ml/ha	Ginger	2	<u>Treated</u> 1. Dead heart (%) -30% 2) Yield Kg/Ha- 8400 kg <u>Untreated</u> 1. Dead heart (%) -60% 2) Yield Kg/Ha- 6200 kg	Since the farmers could harvest better yield, they were ready to adopt and continue with the technology	Timely spraying of pesticides before and on onset of monsoon is greatly challenging when compared to untreated crops in terms of quality and quantity of harvest.	Treated-2.60 Untreated-1.95
8	Integrated pests and diseases management in	Low yield due to disease and pest infestation	Use of <i>Pseudomonas</i> as seed treatment, soil application, foliar spray	Paddy	2	<u>Treated</u> 1. Dead heart (%) -15 % 2. White ears (%) -10% 3. Pests intensity	Since the farmers could harvest better	Timely application of biological means and pesticides	Treated-2.06 Untreated-1.99

	paddy		<p>Release of egg parasitoids (T.chilonis@5cc/ha for leaf folder on 37, 44 &51 DAT; T.japanicum@5cc/ha for stem borer on 30 & 37 DAT)</p> <p>Use of pheromone trap @12/ha for yellow stem borer</p> <p>Application of Neem seed Kernel extract @25kg/ha</p> <p>ETL based application of Flubendiamide @75ml/ha/ Imidacloprid @500ml/ha/ Hexaconazole @1ml/lit</p>			<p>(%) -22%</p> <p>4) Yield Kg/Ha- 2936 kg</p> <p><u>Untreated</u></p> <p>1. Dead heart (%) -53%</p> <p>2. White ears (%) -47%</p> <p>3. Pests intensity (%) -60%</p> <p>4) Yield Kg/Ha- 2775 kg</p>	yield,they were ready to adopt and continue with the technology	from the time of sowing and monitoring till harvest greatly shows significant results in terms of quality and quantity of harvest.	
9	Efficacy of Neem against Mustard aphids	Severe infestation of aphids on Mustard resulting in yield loss	Spraying with neem seed kernel extract 3% or Neem leaf extract 3% Spraying with dimethoate	Mustard	2	Failed		Trials was conducted at WRC plot after harvesting of paddy	

			0.045% Spraying with phosphamidon 0.04%.					and due to sowing of seeds late,the crop was damaged by frost	
10	Cultiv ation of maize as fodde r	Lack of awareness on quality fodder production	Cultivation of maize variety DMH 849 with a spacing of 30x 60cm	Maize	3	DOS – 20.5.2014 Date of cuttings- 60-75 DAS Yield/Ha – 30 t/ha	The farmers were interested as maize can be grown successfull y in the district.	The farmers like to continue in the ensuing year	
11	Creep feeding in piglet	Lack of awareness in Creep feeding	Creep feeding in piglet	pig	3	Age at weaning- 6weeks Average wt of piglets at weaning-3.85 Mortality at weaning-nil Furrowing intervals-18-19 weeks	Farmers were interested in the practice of Creep feeding management	Farmers like to continue the technology	
12	Group formatio n	Lack of awareness in management of groups	Analysis of groups <10 <15 <20	FIG,SHG	3	Production level of the group and annual income 8=High 10=high 15=high	Farmers were interested in group participation	Groups like to continue in group formation	

13	Marketing channel		Producer's share in consumer's money	pig	3	Producer's share in consumer's money= Rs 16000/-/pig within 8-9months	Farmers were interested in rearing pigs	Farmers like to continue piggery farming	
14	Extension Methods	Lack of awareness in cultivation of this variety	Awareness% Interest % Adoption %	French bean	3	Awareness%=50 Interest %=20 Adoption %=ongoing			

***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 2014-15

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

List of technologies demonstrated during previous year and popularized during 2014-15 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	Maize	Introduction of Maize var RCM 76 and its scientific management	5	10	2
2	Soyabean	Introduction of Soyabeanvar RCS 1-9 and its scientific management	5	10	2

3	Paddy	Introduction of paddy variety Bhalum-3	5	10	2
4	Maize+Groundnut	Intercropping of Maize (Var: DMH 849) with Groundnut (Var: ICGS 76)	5	10	2
5	Mandarin Orange	Citrus rejuvenation	1	15	5
6	Onion	Curing and storage of onion	1	10	5
7	Ginger	Application of 10 kg : 1 kg (Rhizome seed : Biofor Pf) and prepare paste @ 1kg in 2 ltr of water and dip the Rhizome in the paste for 15 minutes and dry shade for 1 hour.	2	10	2.02
8	Mushroom	A.Substrate mixture : a) 15 bucket paddy straw b) 4 buckets saw dust (excluding teak saw dust) c)2 kgsatta d)50 gms sodium bi carbonate (Cooking soda) e)250 gms lime B) Sterilization for 24 hours C)Incubation D)Growing in growing room	3	15	15 units
9	Fodder production and quality enhancement	Introduction of Hybrid Napier co3 n co 4	1	15	7.5

* **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)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Maize	Varietal Evaluation	Introduction of Maize var RCM 76 and its scientific management	Kharif-2014	2	2	10	-	10	-	Rainfed			
2.	Soyabean	Varietal Evaluation	Introduction of Soyabean var RCS 1-9 and its scientific management	Kharif-2014	2	2	10	-	10	-	Rainfed, 800 M MSL			
3	Paddy	Varietal Evaluation	Introduction of paddy variety Bhalum-3	Kharif-2014	2	2	10	-	10	-	Rainfed			
4	Maize+Groundnut	Cropping system	Intercropping of Maize (Var: DMH 849) with Groundnut (Var: ICGS 76)	Kharif-2014	2	2	10	-	10	-	Rainfed			

5	Mandarin Orange	Citrus rejuvenation	Rejuvenation of old declined orchard	Kharif& Rabi 2013	1	1	15		15		Rainfed	289.72.	15.61	134.23
6	Onion	Curing and storage of Onion	Post harvest management	Rabi	1	1	10		10		Irrigated	273.4	16.7	125.6
7	Ginger	Biological control	Application of 10 kg : 1 kg (Rhizome seed : Biofor Pf) and prepare paste @ 1kg in 2 ltr of water and dip the Rhizome in the paste for 15 minutes and dry shade for 1 hour.	May 2014- Feb 2015	2.02	2.02	10		10		Rainfed			
8	Mushroom	Cultivation technique of Mushroom	A.Substrate mixture : a) 15 bucket paddy straw b) 4 buckets saw dust (excluding teak saw dust) c)2 kgsatta d)50 gms	October 2014 – Feb 2015	15 unit	15 unit	15		15					

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*			GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
											Demo	Local						
1	Maize	Varietal Evaluation	2	42.6	36.5	14.32	43.2	37.8			40250	85200	44950	2.12	40250	73000	32750	1.82
2	Soyabean	Varietal Evaluation	2	8.2	6.5	20.73	9.5	7.0	Rust	Rust	27650	32800	5150	1.19	23800	27300	3500	1.15
3	Paddy	Varietal Evaluation	2	44.04	35.15	20.18	45.30	38.60			42650	88080	45430	2.07	42650	105450	62800	2.47
4	Maize+Groundnut	Cropping system	2	40.5+7.31	38.4	19.68	42.68+8.50	37.85+7.20			52820	117550	64730	2.23	39500	76800	37300	1.94
5	Mandarin orange	Rejuvenation of Mandarin Orchard	1	110	30	72.72	125	98	Fruit drop, Trunk borer, leaf miner and powdery	Fruit drop, Trunk borer, leaf miner and powdery	127500	440000	312500	3.4	75000	120000	45000	1:1.8

									milde w	milde w								
6	Onion	Curing and storage of Onion	1	a) Shelf life (proper curing & under low cost storage structure) 2 months b) 127 b) 130	a) Conventional (farmer practice) 2 months b) 127 b) 130	-	117	148	-	-	95000	26000 0	16500 0	1:2. 7	80000	19050 0	11050 0	1:2.3
7	Ginger	Biological control	2.02	81 qt	59 qt	27.16 %	84	59	45%	55%	84,250 /-	2,02,5 00/-	1,18,2 50/-	2.40	79,100 /-	1,74,5 00/-	95,400 /-	2.21

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	3	7/11/14 6/2/15		60	60	
2	Farmers Training	2	19/9/14 & 6/2/15		59	59	
3	Media coverage	15	April,2014-march 2015				
4	Training for extension functionaries						
5	Any other (Pl. specify) Farmers scientist interaction	1	23/7/14		57	57	
	Total	21			176	176	

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.)			
							Demo	Check		Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR
Fodder production	Fodder production and quality enhancement	Introduction of Hybrid Napier grass	15	15	<p>CO 2 Cutting interval a. First cutting - 60-75 DAT b. 2nd to 6th cutting-45-50 after the first cut yield/ha/year=350 Mt</p> <p>CO 3 Cutting interval a. First cutting - 60-75 DAT b. 2nd to 6th cutting-45-50 after the first cut yield/ha/year=376 Mt</p>														

** 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	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			

** 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, vermicompost, apiculture etc.	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		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Mushroom	Cultivation technique of Mushroom	Mushroom Cultivation (Chinese method)	15	15 units	(Chinese method) Yield (kg) 190	(Conventional method) Yield (kg) 65				8000/-	3800/-	3000/-	4.75	5,000/-	13,000/-	8000/-	2.6	

**** 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																			Grand Total (x + y)
	On-Campus (1)	Sponsored (2)	Total (1+2)	General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
				On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6) (8)	Sp. On (b=5+7) (9)	On (10)	Sp. On (11)	On (c=8+10) (12)	Sp. On (d=9+11) (13)	On (4+8) (14)	Sp. On (5+9) (15)	On (6+10) (16)	Sp. On (7+11) (17)	On (x=a+c) (18)	Sp. On (y=b+d) (19)				
I. Crop Production																							
Weed Management	1	-	1	-	-	-	-	-	-	22	-	10	-	32	-	22	-	10	-	32	-	32	
Seed production	-	2	2	-	-	-	-	-	-	-	40	-	28	-	68	-	40	-	28	-	68	68	
II. Horticulture																							
a) Vegetable Crops																							
Off-season vegetables	2		2							86		60		146		86		60		146		146	
Protective cultivation (Green Houses, Shade Net)	1		1							40		40		80		40		40		80		80	

X Capacity Building and Group Dynamics																					
WTO and IPR issues																					
XI Agro-forestry																					
Integrated Farming Systems																					
TOTAL			15							368	170	220	44	588	214	368	170	220	44	588	802

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
	Off	Sp Off*	Total	General						SC/ST						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																						
Resource Conservation Technologies																						
II. Horticulture																						

a) Vegetable Crops																					
Protective cultivation (Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning	1		1							25		25		50		25		25		50	50
Cultivation of Fruit		2	2							41		38		79		41		38		79	79
Management of young plants/orchards	1		1							25		25		50		25		25		50	50
Rejuvenation of old orchards	1		1							35		34		69		35		34		69	69
c) Ornamental Plants																					
Nursery Management																					
d) Plantation crops																					

Processing and value addition																						
e) Tuber crops																						
Processing and value addition																						
f) Spices																						
Production and Management technology	1		1							20		20		40		20		20		40		40
g) Medicinal and Aromatic Plants																						
Nursery management																						
III Soil Health and Fertility Management																						
Soil fertility management																						
IV Livestock Production and Management																						
Dairy Management	-	1	1		-	-	-	-	-	-	20	-	20	-	40		20		20		40	40
Poultry Management	1	-	1	-	-	-	-	-	-	20	-	20	-	40	-	20	-	20	-	40	-	40

V Home Science/Women empowerment																						
Value addition																						
VI Agril. Engineering																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	2	1	3							35	25	25	5	60	30	35	25	25	5	60	30	90
VIII Fisheries																						
Integrated fish farming																						
IX Production of Inputs at site																						
Seed Production																						
X Capacity Building and Group Dynamics																						
Aims and objectives of KVK	1	1	2							10	50	2	3	12	53	10	50	2	3	12	53	65
Formation and Management	2	1	3							50	50	50	3	100	53	50	50	50	3	100	53	153

of SHGs																							
XI Agro-forestry																							
Production technologies																							
TOTAL			16							16	24	14	12	302	374	16	24	142	128	30	37	676	
										0	6	2	8			0	6			2	4		

(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														
	On (1)	Sp On* (2)	Total (1+2)	General						SC/ST						Total					(x + y)													
				Male		Female		Total		Male		Female		Total		Male		Female		Total														
				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	1		1													19						19						19						19
TOTAL	1		1													19						19						19						19

3.3.4. Achievements on Training of Rural Youth 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
	Off	Sp Off	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	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																						
TOTAL																						
C. Extension Personnel																						
3.3.5. Achievements on Training of <u>Extension Personnel</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes																						
(*Sp. On means On Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
	On	Sp	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		

	(1)	On* (2)	(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)	
Productivity enhancement in field crops																						

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	
	Off	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off		Sp Off *
Integrated Pest Management	1										10				10		10				10	20
Livestock feed and fodder production	1										10				10		10				10	20
TOTAL	2										20				20		20				20	20

Note: Please furnish the details of above training programmes as Annexure 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
Agronomy	Weed Management	Chemical weed management in rice	17.7.14	1	KVK Conference Hall	Farmers & Farm women	-	-	-	22	10	32	22	10	32
	Seed Production	Seed production & storage of Rice and Maize	24 & 30 th July 14	2	KVK Conference Hall	Farmers & Farm women	-	-	-	40	28	68	40	28	68
Horticulture	Protected cultivation	Protected cultivation of Tomato	4.6.2014	1	KVK Training Hall	Farm and Farm women				40	40	80	40	40	80
	Cultivation of fruit	Scientific cultivation of M orange	11.6.2014	1	KVK Training Hall	Farm and Farm women				40	40	80	40	40	80
	Nursery raising	Better nursery management	16.7.2014 & 18.6.2014	2	KVK Training Hall	Farm and Farm women				86	60	146	86	60	146
Plant Protection	IPM	Pest and disease management	24/4/14	1	KVK, Training Hall	Farmer & Farm women				40	10	50	40	10	50

		t of Ginger			,Khawz awl										
	IPM	Pest and disease managemen t of paddy	13/5/14	1	KVK,T raining Hall ,Khawz awl	Farmer & Farm women				35	15	50	35	15	50
	IPM	Pest and disease managemen t of Ginger	4/6/14	1	KVK,T raining Hall ,Khawz awl	Farmer & Farm women				40	10	50	40	10	50
	IPM	Pest and disease managemen t of paddy	11/6/14	1	KVK,T raining Hall ,Khawz awl	Farmer & Farm women				35	15	50	35	15	50
	IPM	Managemen t of Storage pest	16/7/14	1	KVK,T raining Hall ,Khawz awl	Farmer & Farm women				65	8	73	65	8	73
	IPM	Managemen t of Storage pest	18/7/14	1	KVK,T raining Hall ,Khawz awl	Farmer & Farm women				65	8	73	65	8	73
	Mush room	Mushroo m Cultivation	19/9/1 4	1	KVK,Tr aining Hall ,Khawz awl	Rural Youth				1 9		19	19		19

	IPM	Management of Storage pest of Paddy	7/11/14	1	KVK, Training Hall, Khawzawl	Farmer & Farm women				10		10	10		10
Animal Science		Feed management	12/12/14	1	KVK, Training Hall, Khawzawl	Farmer & Farm women				20	20	40	20	20	40

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
Horticulture	Cultivation of fruit	Scientific cultivation of Passion fruit	22/8/2014	1	Pawlra ng Hall	Farm and Farm women				10	8	18	10	8	18
	Cultivation of fruit	Scientific cultivation of M orange	17/8/2014	1	Khawbung Hall	Farm and Farm women				31	30	61	31	30	61
	Management of	Important of Managemen	29/9/2014	1	BDO Hall, Khawzawl	Farm and Farm women				25	25	50	25	25	50

	Young plant	Plant of young			awl										
	Citrus rejuvenation	Rejuvenation of citrus declining orchard	30/9/2014	1	BDO Hall, Khawzawl	Farm and Farm women				35	34	69	35	34	69
	Training and Pruning	Training and pruning on major fruit crop	1/10/2014	1	BDO Hall, Khawzawl	Farm and Farm women				25	25	50	25	25	50
	Cultivation practices	Scientific cultivation of Ginger	6/2/2015	1	Chawngtlai	Farm and Farm women				20	20	40	20	20	40
Plant protection		Management of Insect pest and Diseases of Passion fruit	22/8/14	1	Pawlang	Farmer and Farm women				15	5	20	15	5	20
		IPM in Ginger and Tomato	16/9/14	1	YMA Hall, ElectricVeng	Farmer and farm women				25	5	30	25	5	30
		IPM in Ginger	16/9/14	1	YMA Hall, ElectricVeng	Extension personnel				10		10	10		10
		IPM in Ginger	6/2/15	1	Chawngtlai	Farmer and farm women				20	20	40	20	20	40
Animal science		Dairy and poultry management		2		Farmer and farm women				40	40	80	40	40	80

					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	

*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		
Off	F/FW	30/9/2014	1	Horticulture	Citrus rejuvenation				25	25	50	25	25	50	IWMP	7000/-	
off	F/FW	29/9/2014	1	Horticulture	Training and Pruning				35	34	69	35	34	69	IWMP	6000/-	
off	F/FW	1/10/2014	1	Horticulture	Pruning and training				25	25	50	25	25	50	IWMP	7500/-	
On	F and FW	16/7/14	1	Plant protection	IPM	Management of Storage pest				65	8	73	65	8	73	RK VY	10,000/-

	workshop																	
14.	Method demonstration			3				40	40	80					40	40	80	
15.	Celebration of important days	Independence Day, Republic Day, World Environment Day, Green Mizoram Day, SwacchBharat, Christmas, Chapcharkut.	April 2014- march 2015	7		Mass												
16.	Exposure visits																	
17.	Electronic media (CD/DVD)																	
18.	Extension literature																	
19.	Newspaper coverage	15	April 2014- march 2015	15		Mass												
20.	Popular articles	Effect of DDT	25 & 26/2/15	2		MASS												
21.	Radio talk																	
22.	TV talk																	
23.	Training manual																	
24.	Soil health camp																	
25.	Awareness camp																	
26.	Lecture delivered as resource person																	
27.	PRA																	
28.	Farmer-Scientist		23.7.14	1				50	7	57				50	7	57		

	interaction																
29.	Soil test campaign																
30.	Mahila Mandal Convener meet																
31.	Any other (Please specify)	Baseline survey was done to know the need based training of the farmers at Khualen,Chawngtlai&Pawlrang	4,5/12/14 22/8/14	3				32	3	35				32	3	35	
32.																	
Grand Total				461				412	175	587				412	175	587	

3.5 Production and supply of Technological products during 2014-15

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS							
	paddy	1)Shahsarang 2)Bhalum -3 3) CAU-R1	5 6 3	18000/-		15 15 15	15 15 15
	Maize	RCM-76 RCM-75 DMH-849	7 6 8	1500 1000 2000		20 10 10	20 10 10
OILSEEDS							
	Groundnut	ICGS 76	0.15	1500/-		5	Groundnut

C1. SUMMARY of production of bio-products during 2014-15

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS							
3	BIO PESTICIDE							
	TOTAL							

D. Production of livestock during 2014-15

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							

D1. SUMMARY of production of livestock during 2014-15

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	SHEEP & GOAT							
3	POULTRY							
4.	PIGGERY							
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2014-15

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):2012,Half Yearly

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Popular articles published in the Local Newspaper	Effect of DDT	F.Zoramthari SMS (pp)	mass
Newsletter	Mizoram Agriculture Research Newsletter, Issue No 5 Topic : Mushroom Cultivation	F.Zoramthari SMS (pp)	500
TOTAL	2		

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
	CD	i)Pruning of young plants and Identification of pests and diseases in mandarin orange. ii)Chemical weed management in rice, iii)Cake baking by pressure cooker, iv)Integrated management of bacterial wilt, v)utilization of paddy straw vi),KVK Major activities, vii)Extension activities and viii)Field demonstration of KVK.	8

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

SUCCESS STORY ON MANDARIN ORANGE CULTIVATION



Mr. Siamhnuna, an orange grower of Khawzawl village has an Orange orchard consisting of 370 number of plants which were planted during 2005. From the 7th year of planting, the plants started bearing fruits and he got good returns. However, during the 9th year, he observed that the leaves turned yellowish and there was very severe pre-mature fruit drop, retaining only about 10% fruits up to maturity. At this juncture, he attended training programme organized by KVK, Champhai District on 'Pests and Diseases Management on M orange' and requested KVK scientists to visit his orchard. Upon visit of the orchard, KVK Scientists identified that the problem was due to infestation of trunk borer and that the fruit drop was caused by stingy bug. Accordingly, appropriate control measures were suggested to him, viz. i) injecting nuvan 5ml on the bored holes and to paste with mud ii) Spraying of Nuvan 2ml/lit of water for control of stingy bug. After intervention of KVK Khawzawl the plants became healthy and productive once again. In the next season, he could earn an income of Rs 130,000/- from his orchard which increases yearly till now. Moreover, he is now able to identify pests and diseases in his mandarin orchard by himself and take necessary preventive and control measures. By seeing his success and achievement, fellow-farmers realise the importance of seeking advise from KVK scientists

SUCCESS STORY ON NURSERY RAISING OF WINTER VEGETABLES

Mr. Zothansanga of Tuisenphai Khawzawl owns a Poly House of 80 feet X 50 feet size which he has been maintaining since 2010. Year after year, he has been growing tomato in this Poly House but production had never been upto the mark due to infestation of pest and diseases especially, bacterial wilt. KVK scientists of Champhai District visited his Poly House and advised him to go for nursery raising of winter vegetables especially cole crops after thorough soil and seed treatment, by teaching him practically. After intervention of KVK, Khawzawl, Champhai District Pu Zothansanga could raise healthy seedlings from his Poly House and could earn an income of Rs 70,000/- (Rupees Seventy thousand) only in one month by selling his seedlings.



3.10 Indicate the specific training need analysis tools/methodology followed for

- 1) Survey
- 2) Face to face interaction
- 3) Field visit.

Survey was conducted at Khualen, Chawngtlai and Pawlrang to know the training needs and the problems of the farmers. Face to face interaction was done with some of the farmers and their village council members. From the interaction their training needs has been found out and some suggestions regarding their crop management had been given to them. Farm visit had also been conducted to some farmer's field

3.11 Field activities

- i. Number of villages adopted=7 villages viz, Pawrang, Khualen, Chawngtlai, Chalrang, Rabung, Khawbung, Champhai
- ii. No. of farm families selected=20
- iii. No. of survey/PRA conducted=Survey was done at Khualen, Chawngtlai and Pawlrang on Dt4,5/12/14 and 22/8/14 respectively

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 only														
Voice only	50	50											50	50
Voice and Text both														
Total	50	50											50	50

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
SRI	5	100	21000	32500
Introduction of poultry breed vanaraja	25	100	0	12000

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
State Department of Agriculture	Implementation of NFSM, supply of subsidised inputs like water pump,chemicaletc
State Department of Horticulture	Supply of subsidized inputs like HDPE pipes,winter seeds etc free of cost.
ICAR, Kolasib Centre	Technology transfer and other inputs
Department of Soil & Water Conservation	Technology transfer, supply of planting materials, etc.
NGO's – YMA, AMFU, SHG's,	Technology transfer, Awareness Programme, Celebration of Important days etc.

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

Spices & Plantation crops										
i.	Turmeric	18/5/14	22/11/14	0.4	PADNA	Seed Rhizome	38Qtl	17500	26000	
ii.	Coffee	26/7/14	On going	0.5	C.Arabica			2500		
iii.	Chilli	22/10/14	16/11/14	0.004	VEERJI	Seedling	-	1400	7000	
Floriculture										
i.										
Fruits										
i.	Pineapple	12/3/11								
Vegetables										
i.	Cabbage	22/10/14	16/11/14	0.004	SHAN	Seedlings	12,000	1400	6000	
ii.	Tomato	22/10/14	16/11/14	0.004	AVTAAR	Seedlings	8000	1400	7000	

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	
1	Cow	1)Jersey 2)Holstein Frazier	Milk	1800 lt	Rs.48900	108000	1

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RV/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 2014-15

Accommodation available (No. of beds) : 13

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			
With KVK	State Bank Of India	Khawzawl Branch	34394593032
Revolving Fund			

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					
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		63.88	62.09
2	Traveling allowances		2	1.99
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
C	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
D	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
E	Training of extension functionaries			
F	Maintenance of buildings			
G	Establishment of Soil, Plant & Water Testing Laboratory			
TOTAL (A)			11.97	11.97
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				0.20
GRAND TOTAL (A+B+C)			75.85	76.25

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2012 to March 2013	7,780	75,664	20,360	63,084
April 2013 to March 2014	63,084	91,345	1,04,731	49,648
April 2014 to March 2015	49,648	2,55,399	2,07,733	47,666

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

- (a) Administrative= Leakage of building on rainy season.
- (b) Financial= Late release of fund.
- (c) Technical= i)No soil testing kit / lab.

(Signature)
Programme Coordinator