

**PROFORMA FOR ANNUAL REPORT OF KVKs**

**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	
KVK, East Khasi Hills, Upper Shillong, Meghalaya-793009	0364-2560132	0364-2560132	<a href="mailto:kvkekhup@gmail.com">kvkekhup@gmail.com</a> <a href="http://www.kvkeastkhasihills.nic.in">Website:www.kvkeastkhasihills.nic.in</a>

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture, Cleve Colony, Shillong, Meghalaya-793003	0364-2222460	0364-2222460	<a href="mailto:agri-meg@nic.in">agri-meg@nic.in</a>

**1.3. Name of the Senior Scientist and Head with phone & mobile No .**

Name	Telephone / Contact		
	Residence	Mobile	Email
Smt. BadahunlangWahlang	-	9863768444	<a href="mailto:badawlng18@gmail.com">badawlng18@gmail.com</a>

**1.4. Year of sanction: 20<sup>th</sup> Oct., 1994**

**1.6. a. Total land with KVK (in ha) :10.2**

**b. Total cultivable land with KVK (in ha):6 approx**

c. Total cultivated land (in ha): 1

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers’ Hostel+ Staff Quarters)	8000sqm
2	Under Demonstration Units (pl. specify the name)	(100 sqm each)
	i.Poly house 2 nos	1- for Hydroponics and flower plants propagation 1- cauliflower production
	ii.Poly tunnel 1 no	(90 sqm) ( For raising seedlings)
	iii. Shade net 1 no	(100 sqm) High value crops production
	iv. Anti hail net 1 no	(100 sqm) Santa rosa plum production
	v. Vermicompost unit 1no	(100 sqm)
	vi. IFS ( Climate resilient Integrated Farmins System model)	0.2 ha Fish cum Piggery and Horticulture
	vii. Water Harvesting structure	25 sqm
3	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately)	400 m <sup>2</sup>
	i.Mustard	100 m <sup>2</sup>
	ii. Palak	100 m <sup>2</sup>
	iii. Cauliflower	
4	Under vegetables (Pl. specify separately) i.Potato	500 sqm
5	Orchard/Agro-forestry	200 m <sup>2</sup> 1 <sup>st</sup> year of growth
6	Others (specify)	-

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	Under Construction	6000	150 lakhs	Under Construction	Under Construction	Under Construction
2.	Farmers Hostel	NIL	NIL	NIL	NIL	NIL	NIL	NIL

3.	Staff Quarters (6)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4.	Demonstration Units (2)	ATMA SASMIRA	2012-2015	-	-	-	-	-
5	Fencing	NIL	NIL	NIL	NIL	NIL	NIL	NIL

## B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	ML 05 G-9672	2010	6.00 lakhs	151000	Unsatisfactory requiring regular repairs
Mahindra Tractor with accessories	ML 05 Q - 9791	2017	10.00 lakhs	45.00	Very Good

## 1.8. A). Details SAC meeting\* conducted in the year

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
	<ol style="list-style-type: none"> <li>Shri. R. Langstieh, Director (R&amp;T), Directorate of Agriculture, Govt. Of Meghalaya</li> <li>Smti. B. Wahlang Senior Scientist and Head, KVK, E.K.H. District</li> <li>Smti. Divya Parisa Scientist, ICAR-ATARI, Umiam</li> <li>Shri. A. Lamare D.S.W.C.O., Plantation Crops, Shillong</li> <li>Smti. S. Kharpuri D.A.O Shillong</li> <li>Smti. P. Kharkongor S.D.A.O Shillong</li> <li>Smti. A.D. Nongbri ADH, East Khasi Hills, Shillong</li> <li>Dr (Mrs.) L. Pale A.H&amp; Vety. Officer Livestock Inspector, Shillong</li> <li>Shri. P.R. Lyngdoh Fishery Officer</li> <li>Shri. W.L. Narry SDO(WR) Shillong</li> <li>Smti. S. L. Dkhar Project Director, ATMA, East Khasi Hills District</li> <li>Smti. R.M.L. Marbaniang Programme Executive, AIR Shillong</li> </ol>	<p>(a) Suggested SMS (Plant Protection) to tie up with State Biological Control Laboratory for procurement of <i>Trichoderma viridae</i>, <i>T. harzianum</i> and supplying to the farmers. He also suggested to collaborate with the Ginger Development farm for the procurement of ginger rhizomes.</p> <p>(b) Enquired from Shri. W. Lyngrah, farmer from Mawsiatkhnang, about the performance of ginger cultivation at his village and encouraged him to study the performance of ginger grown by him under the guidance of KVK scientist and the crop grown through their own knowledge. Shri. W. Lyngrah informed the chairman that he has adopted the technology disseminated by the office of the KVK and has stopped the practice of removal of mother rhizome. He stated that this practice has benefitted him a lot as now he has observed that there is less incidence of rhizome rot.</p> <p>a) Advised SMS (Agronomy) to introduce 2-3 new varieties of baby corn for comparison between the varieties and to also take a local check for the demonstration. She further advised to expand the marketing of baby corn by linking the farmers with local restaurants. Farm Manager replied that in the past KVK, EKH had approached the local restaurants for the same and it was</p>	Action taken and verified during SAC meeting

	<p>13. Shri. Nicholas J.J. Nongkhlaw Programme Executive, Doordarshan Shillong</p> <p>14. Shri. Anikhet Chettri Programme Assistant, DDK, Shillong</p> <p>15. Shri. S. Marbaniang SMS, Extension Education, KVK, E.K.H. District</p> <p>16. Smti. A. Lyngdoh SMS, Horticulture, KVK, E.K.H. District</p> <p>17. Smti. B. Chyne SMS, Plant Protection, KVK, E.K.H. District</p> <p>18. Shri S. Malngiang SMS, Fisheries, KVK, E.K.H. District</p> <p>19. Shri. B. Syiemlieh Farm Manager, KVK, E.K.H. District</p> <p>20. Smti. A.Lyngdoh SMS, Agronomy, KVK, EKH. District</p> <p>21. Shri. K.A. Muktieh Programme Assistant, Computer, KVK, E.K.H. District</p> <p>22. Smti. T. Thabah Progressive Farmer, Smit village</p> <p>23. Shri K.W. Lyngrah Progressive Farmer, Mawsiatkhnem village</p>	<p>felt that there was a need to process the baby corn to avail a better and wider market.</p> <p>b) Advised the use of Nadia variety of Ginger and to contact Kerela Agriculture University for supply of ginger rhizomes.</p> <p>(c) Suggested to take up trials on sweetcorn. With regard to this, Farm manager replied that KVK, EKH had already done trials on sweetcorn in the past.</p> <p>(d) Advised SMS (Plant Protection) to take up Button Mushroom in her trials and to go for multitier system of cultivation. SMS (Plant Protection) explained that she gives training and demonstrations on Button Mushroom however in the current situation it is difficult to get a steady supply of spawns of Button Mushroom for conducting trials.</p> <p>(e) Enquired if there are any external projects that are being implemented by the office of the KVK. SMS (Fisheries) said that in the previous year he had implemented training Projects/ Demonstrations sponsored by NFDB. Also, SASMIRA in collaboration with the office of the KVK have provided shadenets, vermicompost units etc. to selected farmers of East Khasi Hills district. SMS (Horticulture) also informed Smti. Divya Parisa that KVK, EKH had sent a proposal on Hydroponics in the past few months however till date the funds have not been sanctioned.</p> <p>(f) Enquired about the planting time of Tomato var. Pusa Rohini. SMS (Horticulture) replied that the nursery raising for tomato starts in the month of March.</p> <p>(g) Suggested to incorporate No. of days to maturity/crop duration for the trials on carrot and cabbage. She furthermore suggested to use a check variety for both. This was duly noted by SMS (Horticulture).</p> <p>(h) Enquired about the pests of cabbage. SMS (Plant Protection) gave a</p>	
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		<p>satisfactory reply.</p> <p>(i) Suggested to take up fruit crops as part of the trials of KVK. SMS (Horticulture) and SMS (Plant Protection) informed Divya Ma'am that they have been giving trainings on various fruit crops, training and pruning and also done method demonstrations on Citrus Rejuvenation in few villages of East Khasi Hills.</p> <p>j) Shri. P.R. Lyngdoh, Fishery Officer, enquired about the stocking ratio of fishes in Rice cum Fish culture practice. This enquiry was met with a satisfactory answer from SMS (Fisheries).</p> <p>k) Shri. A. Lamare, D.S.W.C.O, Plantation Crops, suggested the collaboration of Soil department with KVK for improved agricultural technologies.</p> <p>l). Smti. T. Thabah, farmer (Smit village) voiced her problems concerning the performance of potato tubers. Shri. R.Langsieh, Joint Director (R&amp;T) explained to her that the performance of potato tubers will decline after 3-4 years due to degeneration.</p> <p>m) W. Lyngrah, farmer from Mawsiatkhniam, shared with the house that in the past he cultivated ginger variety Suprabha and found that it was a good variety and was thriving at Mawsiatkhniam village. However this variety was discontinued and he had requested the house to help in procuring the ginger variety in the near future</p>	
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*\* 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)**

Sl. No	Farming system/enterprises
1.	Farming system/enterprises
2.	Agri + Hort + AH+ Fishery
3.	Agri + Hort+ AH
4	Agri + Hort
5	Enterprises <ol style="list-style-type: none"> <li>1. Agri –Paddy, Maize,Soybean</li> <li>2. Hort- Tomato, Ginger, Turmeric, Cabbage, Cauliflower, Chillies, Beans, Peas, Beat root, Carrot, Radish, Potato ,Garlic , Lettuce, Gerbera, Lilium, Khasi Mandarin ,Plum, Pear, Peach, Papaya, Banana, Passion fruit.</li> <li>3. AH and Vety – Poultry, Piggery, Cattle, Goatery,Sheep.</li> <li>4. Fishery – Common carp, Grass Carp, Silver Carp, Cattla andRohu.</li> </ol>

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

Sl. No	Agro-climatic Zone	Characteristics
1	Temperate Sub-Alpine zone	N.A.
2	Subtropical	N.A

### **2.3 Soil type/s**

Sl. No	Soil type	Characteristics	Area in ha
1.		Deep, excessively drained, fine soils on moderately sloping side-slopes of hills having loamy surface with moderate erosion hazard associated with: Moderatelydeep,excessivelydrained,coarse-loamysoilsongentlysloping hill tops with very severe erosion hazard and strong stoniness.	
2.		Deep, excessively drained, fine soils on gently sloping side-slopes of hills having loamy surface with moderate erosion hazard associated with: Deep, poorly drained, fine-loamy soils on very gently sloping valleys with very slight erosion hazard and ground water table below one metredepth of the surface.	
3.		Deep, excessively drained, fine soils on moderately sloping side slopes of hills having loamy surface with moderate erosion hazard & slight stoniness associated with: Moderately deep, excessively drained, loamy-skeletal soils on gently sloping hill tops with very severe erosion hazard and strong stoniness.	
4.		Deep,excessivelydrained,finesoilsonmoderatelysteepsideslopesofhills having loamy surface with moderate	

		erosion hazard and strong stoniness associated with: Moderately deep, excessively drained, loamy-skeletal soils on very gently sloping hill tops with severe erosion hazard and strong stoniness	
5.		Deep, excessively drained, fine soils on moderately sloping side-slopes of hills having loamy surface with moderate erosion hazard associated with: Moderately deep, excessively drained, fine-loamy soils on gently sloping hill tops with very severe erosion hazard and strong stoniness	
6.		Moderately shallow, excessively drained, fine-loamy soils on moderately steep side slopes of hills having loamy surface with severe erosion hazard and strong stoniness associated with: Moderately Shallow, excessively drained, loamy-skeletal soils on gently sloping hill tops with very severe erosion hazard and slight stoniness.	
7.		Moderately deep, excessively drained, coarse-loamy soils on very steeply sloping hill escarpment having sandy surface with very severe erosion hazard and strong stoniness associated with: Deep, excessively drained, coarse-loamy soils on steeply sloping hill tops with severe erosion hazard and strong stoniness	
8.		Moderately deep, excessively drained, loamy-skeletal soils on moderately steep side-slopes of hills having sandy surface with very severe erosion hazard and strong stoniness associated with: Shallow, excessively drained, loamy-skeletal soils on moderately steep side-slopes of hills with very severe erosion hazard and strong stoniness	
9.		Deep, excessively drained, fine-loamy soils on moderately sloping side-slopes of hills having loamy surface with moderate erosion hazard associated with: deep excessively drained, fine soils on moderately sloping side-slopes of hills with moderate erosion hazard.	
10.		Deep, moderately well drained, fine soils on very gently sloping upland having loamy surface with slight erosion and slight flood hazards associated with: Deep, well drained, fine soil on moderately sloping side slopes of hills with moderate erosion hazard.	
11.		Deep, excessively drained, loamy-skeletal soils on steeply sloping side-slopes of hills having loamy surface with severe erosion hazard and strong stoniness associated with: Deep, excessively drained, coarse-loamy, soils on steeply sloping side-slopes of hills with severe erosion hazard and moderate stoniness.	
12.		Moderately deep, excessively drained, fine-loamy soils on steeply sloping side-slopes of hills having loamy surface with severe erosion hazard and moderate stoniness associated with: Deep, excessively drained fine soils on steeply sloping side-slopes of hills with severe erosion hazard and strong stoniness.	
13.		Moderately deep, excessively drained coarse loamy soils on moderately steep side-slopes of hills having loamy surface with moderate erosion hazard and slight stoniness associated with: Moderately deep, excessively drained,	

		fine soils on moderately, sloping side-slopes of hills with severe erosion hazard and slightstoniness	
14		Moderately deep, excessively drained loamy-skeletal soils on moderately steep side-slopes of hills having loamy surface with very severe erosion hazard and strong stoniness associated with: Moderately shallow, excessively drained, coarse loamy soils on moderately steep side-slopes of hills with very severe erosion hazard and strong stoniness.	

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (kg /ha)
1	Rice			
a)	Autumn	280	919	3282
b)	Winter	5456	12555	2301
c)	Spring	133	285	2143
2	Maize	2111	7052	3341
3	Millets	-	-	-
a)	Other Cereals and Small Millets	264	324	1227
4	Pulses			
a)	Pea	-	-	-
b)	Cow Pea	-	-	-
c)	Lentil	-	-	-
d)	Others Pulses	-	-	-
	Total (Pulses)	672	2270	3378
5	Oil Seeds			
a)	Sesamum	78	115	1474
b)	Rape & Mustard	98	86	878
c)	Soya bean	376	452	1202
6	Tuber Crops			
a)	Potato	11959	124832	10438
b)	Sweet Potato	745	1105	1483
c)	Tapioca	562	4079	7258
7	Citrus fruits			
a)	KhasiMandrin	-	-	-
b)	Assam Lemon	-	-	-
	Total (Citrus fruits )	5934	30349	5114



8	Fruits Crops			
a)	Pine Apple	984	8413	8550
b)	Banana	795	9074	11414
c)	Papaya	124	882	7113
9	Spices Crops			
a)	Ginger	505	4444	8800
b)	Turmeric	135	727	5385
c)	Chillies	148	414	2797
d)	Black Paper	188	166	883
10	Plantation Crops			
a)	Tea	103	536	5204
b)	Arecanut	5433	4855	894
c)	Rubber	686	227	331
d)	Coffee	7	6	857

Source: Reports on Area, Production and Yield of Agriculture Crops during 2017-18. Directorate of Agriculture, Govt. of Meghalaya.

## 2.5. Weather data

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
January	49.4	17.32	7.67	79.04
February	60.5	16.54	11.39	76.99
March	284.14	18.74	14.08	75.4
April	4142.8	21.94	21.94	88.53
May	3115.1	21.82	16.94	85.77
June	2949.2	26.62	21.17	92.86
July	9866.5	27.85	20.38	0
August	715.52	26.57	18.06	0
September	943.8	0	0	0
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0

Source: Directorate of Agriculture, Govt. of Meghalaya (2016)

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	12807	11.05	8363
<i>Indigenous</i>	69410		15195
<b>Buffalo</b>	1756	0.08 tonnes	128
<b>Sheep</b>			
Crossbred	364	-	-
<i>Indigenous</i>	7030	-	-
<b>Goats</b>	78334	0.65 tonnes	-
<b>Pigs</b>			
<i>Crossbred</i>	53818	7.72 tonnes	-
<i>Indigenous</i>	79011		-
<b>Rabbits</b>	231	-	-
<b>Poultry</b>			
<b>Hens</b>		1.51 tonnes	
<i>Desi</i>	194919		-
<i>Improved</i>	33002		-
<b>Ducks</b>	1946		-
<b>Turkey and others</b>	1900		-

\*\*\*Source: Annual Administrative Report for the year 2017-2018, Directorate of Animal Husbandry & Veterinary Dept. Shillong.

Category	Area	Production	Productivity
Fish	-	-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	278.28 ha	525.7 tonnes	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

\*\*\* Source: Superintendent of Fisheries, East Khasi Hills, Shillong

## 2.7. Details of Operational area / Villages

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem Identified	Identified thrust area
1		Mylliem	Mawjrong	Paddy, Maize, Pea, Cabbage, Frenchbean, Radish, Turnip, Cauliflower, Potato, Plum, Pear, Peach, Poultry, Piggery Cattle.	Lack of knowledge of good qualityseeds. Lack of knowledge on water management Lack of knowledge on pest and disease management Blast and brown spot ofrice Diseases of poultry and pigs Feed management Lack of knowledge on livestock management Lack of marketing Facilities Lack of knowledge of scientific method of cultivation	Introduction and popularization of HYV for agril. &hort.crops Resource conservation technologies Integrated pest and disease management Feed and health management of livestock Introduction of improved package of practices
		Mawphlang	Laitjem	Paddy, Maize, Potato, Cabbage, Mustard, Pea, Cauliflower, FrenchBean, Radish, pumkin, Squash, Colocasia, Plum, Pear, Peach Chestnut, Cattle, Piggery, Poutry	Lack of knowledge of good quality seeds. Lack of knowledge on watermanagement Lack of knowledge on pest and disease management Diseases of poultry andpigs Feedmanagement Lack of knowledge on livestock management Lack ofmarketing Facilities	Introduction and popularization of HYV for agril. & hort. crops Resource conservation technologies Integrated pest and disease management Integrated farmingsystem Feed and health management of livestock
			Mawklot	Potato, Cabbage, Cauliflower, Frenchbean, Pea, Maize, Radish, Mustard, Beetroot, Pear, Plum	Soil Health Low yield of potato Disease of and pests ofvegetables Lack of market facility Feed management Diseases of livestock	Soil health and fertility management Introduction and popularization of HYV and disease resistant variety ofpotato Integrated pest and disease management Feed and health management of livestock

			Mawreng	Potato, maize, cole crops, livestock, f, pea, pumpkin, Floriculture	Irrigation during winter Diseases occurrence Frost Transportation Lack of knowledge of new varieties and strains of crops and livestock Lack of knowledge of scientificpractices ofcultivation	Introduction of improved package of practices Introduction and popularization of HYV for agril. & hort. crops Integrated pest and disease management Post harvest technology of Potato. Feed and health management of livestock Introduction of IFS
		Shella- Bholaganj	Laitkynsew	Tomato, Potato, Pea, Beans, Radish, Mustard, Beat root, frenchbean, Cabbage, turnip lettuce, Carrot, Chilli ,Black pepper, bayleaf Arecanut, betelleaf, Tapioca, Khasimandarin, Jack fruitBanana, Pineapple, Passion Fruit and minor fruits. Poultry, Goatery, Piggery,Cattle,	Lack of knowledge for improved package and practices of both agril. -hort. Crops Pest and diseases of Tomato,Potato. Lack ofirrigation facilities Soilerosion problem Lack of knowledge of nurseryraising Diseases of livestock Feed management Crown rot of Arecanut	Introduction and popularization of HYV for agril. & hort. crops Integrated pest and disease management Resource conservation technologies Soil fertility management Nursery management Feed and health management of livestock
		Mawsynram	Dangar	Paddy, Maize, tomato, carrot, brinjal, lady's finger, Pea, FrenchBeans, Radish, Mustard, Cabbage, Chilli, Arecanut, BlackPepper, Betelvine, Lettuce, Greengram, Papaya, Banana, Mango, Jackfruit Poultry, Goatery, Piggery, Cattle	Lowcropping intensity Lack of knowledge of scientific method ofcultivation Lack ofirrigation facilities Pest and diseases of tomato, cabbage Diseases of poultry andpigs Feed management Lack of knowledge on livestock management	Increasing the cropping intensity by introducing a second crop Introduction of improved package of practices  Resource conservation technologies Integrated pest and disease management Feed and health management of livestock

		Mawkynrew	Pashang	<p>Maize, Potato, Pea, French Beans, Radish, Mustard, Cabbage, Chilli, Carrot , Lettuce, Pumkin, Pear, Plum, Lemon, Flamengiasp and</p> <p>Some minor fruits. Poultry, Goatery, Piggery, Cattle</p>	<p>Lack of irrigation facilities</p> <p>Lack of knowledge for improved package and practices of both agric. - hort. Crops</p> <p>Lack of knowledge of good quality seeds.</p> <p>Lack of knowledge on use of pesticides and Fertilizers</p> <p>Pest and diseases of Potato and cabbage</p> <p>Diseases of poultry and pigs</p> <p>Feed management</p> <p>Lack of knowledge on livestock management</p> <p>Leaching loss of soil nutrient</p>	<p>Resource conservation technologies</p> <p>Introduction and popularization of HYV for agric. &amp; hort. crops</p> <p>Integrated pest and disease management</p> <p>Feed and health management of livestock</p> <p>Soil health and fertility management</p>
		Mawryngkneng	Jaroit, Tynring, Diengpasoh	<p>Paddy, Maize, Soyabean, Tomato, Pea, French Beans, Mustard, Cabbage, Cauliflower, Chilli, Ginger , Cucumber , Carrot, Pumkin, Bottle Gourd, Egg - plant, Pear, Papaya, Mango, Passion Fruit Assam Lemon Banana, Jack fruit Guava, P. nepalensis, Valencia</p> <p>Poultry, Piggery, Cattle.</p>	<p>Lack of knowledge on use of pesticides and Fertilizer</p> <p>Pest and diseases of Tomato and Paddy and Ginger</p> <p>Lack of irrigation facilities</p> <p>Lack of knowledge of good quality seeds.</p> <p>Diseases of poultry and pigs</p> <p>Feed management</p> <p>Lack of knowledge on livestock management</p> <p>Fluctuation on market price</p> <p>Lack of knowledge of fish rearing</p>	<p>Integrated pest, disease and nutrient management</p> <p>Resource conservation technologies</p> <p>Introduction and popularization of HYV for agric. &amp; hort. crops</p> <p>Feed and health management of livestock</p> <p>Composite fish culture</p>

		Khatarshnong- Laitkroh	Mawbeh	Maize, Soyaben, Potato, Pea, French Beans, Mustard, Cabbage, Chilli, Turnip, Colocasia, Pumkin,Gourd, Egg- plant , Pear, Plum, Papaya, , Passion Fruit Assam Lemon, Peach, Banana, Prunus. nepalensis, Mulberry, Poultry, Piggery, Cattle, Goatery	Pest and diseases ofVegetables Lack of knowledge on use of pesticides and Fertilizers Lack of knowledge for improved package and practices ofboth agril. -hort.Crops Lack of knowledge of good quality seeds. Diseases of poultry andpigs Feedmanagement Lack of knowledge on livestock management	Introduction of improved package of practices Integratedpest ,disease and nutrient management Resource conservation technologies Introduction and popularization of HYV for agril. & hort. crops Feed and health management of livestock
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3. TECHNICAL ACHIEVEMENT

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

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	3	3	12	12	2	2	16	16
Horticulture	2	2	50	50	2	2	50	50
Plant Protection	3	3	30	30	2	2	120	120
Fisheries	2	2	6	6	3	3	18	18
Agрил. Ext Edu	2	2	120	120	1	1	150	150
Total	12	12	218	218	10	10	354	354

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
6					8			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers and Farm Women	80	94(89)	812	2981	269	611	10000	3302
Rural Youth	25	46(45)	205	946				
Extension Personnel	8	14(12)	80	264				
	113	154(146)	1097	4191	269	611	10000	12687
Seed Production (ton.)					Planting material (Nos. in lakh)			
5					6			
Target		Achievement			Target		Achievement	
0.4		0.4			0.03		0.053	

Note: Target set during last Annual Zonal Workshop

3.B. Abstract of interventions undertaken during

Sl. No	Thrust area	Crop/ Enterprise	Identified problem	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.
	Varietal evaluation	Rice	Low yield of local variety due to iron toxicity	Performance of paddy var. Shahsarang for increasing the productivity of Rice				Package and practices of Rice using organic sources	Supply of seeds, bio-fertilizers etc

	Integrated nutrient management	Maize	Low Productivity of maize due to soil acidity (45%)	Performance of lime application on productivity of maize				Demonstration on application of lime along with technology for production of maize	Supply of seeds, lime,bio-fertilizers etc
	Varietal evaluation	Soybean	Low productivity of traditional variety	Performance of Umiam Soybean 1 variety under rainfed conditions				Organic package and practices of Soybean	Supply of seeds, bio-fertilizers etc
		Vermicompost			Popularization of production technology of vermicompost	Construction of low cost vermicomposting structure using vermibed		Demonstration on low cost construction of vermicomposting structures using vermibed	Supply of vermibeds, earthworms
	Integrated crop management	Maize And Frenchbean			Popularization of Maize + Frenchbean(1:1) intercropping system	Importance of intercropping		Demonstration of technology of intercropping of maize and frenchbean	Supply of seeds, bio-fertilizers etc
1		Varietal Evaluation	Pea	Low system productivity due to monocropping-50%	Performance of ginger –pea cropping system for increasing productivity.	-	Scientific cultivation of pea, Scientific cultivation of Ginger	Scientific cultivation of pea, Scientific cultivation of Ginger	Demonstration on line sowing of pea
2			Tomato	Low productivity of local variety-55%	Performance of Tomato var. ArkaRakshak for enhancing productivity and income of farmers.	-	Scientific cultivation of Tomato	Scientific cultivation of Tomato	Demonstration nursery raising in pro-trays



3		Integrated Nutrient Management	Carrot	Indiscriminate use of chemical fertilizers	-	Promotion of Organic nutrient management of carrot for sustainable income	Organic cultivation, Scientific cultivation of Citrus	Organic cultivation, Scientific cultivation of Citrus	Demonstration land preparation and line sowing of carrot
4			Citrus	Indiscriminate use of chemical fertilizers	-	Popularization of organic nutrient management in Khasi mandarin	Organic cultivation, Scientific cultivation of Citrus	Organic cultivation, Scientific cultivation of Citrus	Demonstration bio-fertilizer application in fruit trees
5		Biological control	Potato	Late blight	Performance of bio agents for reducing the incidence of late blight in potato	-	Role of biopesticides for management of insect pests and diseases in potato	IPM strategies Plant Health management	Training, Method demonstration
6			Ginger	Soft rot	Performance of bio agents for reducing the incidence of soft rot of ginger (Variety: Vareda		Role of bio pesticides and their uses in management of Insect pests and diseases in ginger	IPM strategies Plant Health management	Training, Method demonstration
7			Ginger	White grub	Organic management of white grub infestation in ginger (Variety: Vareda)		Role of bio pesticides and their uses in management of Insect pests and diseases in ginger	IPM strategies, Plant Health management	Training, Method demonstration
8		Mushroom cultivation	Oyster mushroom	Low income of the farmers	-	Promotion of low cost cultivation of oyster mushroom	Low cost cultivation of oyster mushroom	-	Training, Method demonstration

9		Biological control	Khasi mandarin	Low productivity due to incidence of insect pests and diseases	-	Promotion of organic management of insect pests and diseases in citrus trees	Use of biopesticides for management of pests and diseases in fruit crops	Bio pesticides : an Economic Approach for Pest Management	Training, Method demonstration
10		IFS	Fish, Paddy	Low Productivity and Income due to single enterprise	Performance of Paddy-Fish Integrated Farming System		Rice cum Fish Integrated Farming System	Pond Based Integrated Farming System	Method Demonstration
11		IFS	Fish, Poultry, Horticulture	Low Productivity and Income due to single enterprise	Performance of Fish cum Poultry cum Horticulture Integrated Farming System		Pond Based Integrated Farming System		Method Demonstration
14		Pond Management	Fish	Unscientific fish culture		Promotion of Composite Fish Culture for enhancing Fish Production	Composite fish culture in hills		Method demonstration on liming, pond fertilization, feeding management etc.
15		Integrated Farming System	Fish Pig	Low Productivity and Income due to single enterprise		Popularization of pond based integrated farming System for livelihood improvement of Small and Marginal Farmers	Pond based integrated farming System		Method demonstration on liming, pond fertilization, feeding management Immunization etc.
17		Species Diversification	Fish	Slow growth rate of Rohu and Common carp		Popularization of improved fish varieties (Jayantirohu and Amur common carp)	-		Method demonstration on liming, pond fertilization, feeding management etc.

	Impact Assessment	Tomato	Impact Assessment not done yet	Impact assessment of FLDs on improved variety of tomato	-	-	-	PRA, Diagnostic Visits, Group Discussion, Interview	-
	Impact Assessment	Babycorn, Broccoli	Impact Assessment not done yet	Impact study on problems faced by farmers on production and marketing of newly introduced crops	-	-	-	PRA, Pre Post Training Assessment Diagnostic Visits, Group Discussion, Interview	-
	Impact Assessment	-	Lack of impact studies	-	Impact of SHGs on Socio economic development of Rural Women	Group Dynamics, Management of SHGs, Financial Management of SHGs	-	PRA, Diagnostic Visits, Group Discussion, Interview	-

### 3.1 Achievements on technologies assessed and refined during

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	-	1	-	-	-	-	-	-	2
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	1	-	-	-	-	-	-	-	-	1
Small Scale income generating enterprises	-	-	-	-	2	-	-	-	-	-
<b>TOTAL</b>	<b>2</b>		<b>1</b>		<b>2</b>					<b>5</b>

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

#### 4. Results of On Farm Testing (OFT)

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	Performance of paddy var. <i>Shahsarang</i> for increasing the productivity of Rice	Low yield of local variety due to iron toxicity	OFT on Rice (var. Shahsarang) cultivated organically	Rice (var. Shahsarang)	6	Yield (t/ha):2.27 Plant height (cm):94.3 Avg no. of tillers per hill:12 Net returns (Rs/ha):56750 B:C :1.25	Shasarang variety is suitable for the area and gives better yields	Proceed for FLD in the following year	1.25
2	Performance of Umiam Soybean 1 variety under rainfed conditions	Low productivity of traditional variety	Performance of Umiam Soybean 1 variety under rainfed conditions	Soybean var.Umiam Soybean 1	6	Germination percentage:76% Yield (t/ha):1.2t/ha Avg. no. ofpods/plant:2 Avg.no ofseeds/pod:3 Net returns (Rs/ha):948 B:C:0.98		It is a newly developed variety so OFT has to be continued for another year	0.98
3	Performance of ginger –pea cropping system for increasing productivity.	Low system productivity due to monocropping (50%)	Performance of ginger –pea cropping system for increasing productivity.	Pea/Double cropping	6	Ongoing	-	-	-
4	Performance of Tomato var. <i>ArkaRakshak</i> for enhancing productivity and income of farmers.	Low productivity of local variety (55%)	Performance of Tomato var. <i>ArkaRakshak</i> for enhancing productivity and	Monocropping	6	1. Average yield (q/ha) – 552. 2. Plant Height (cm) – 46 3. Avg .no. of fruits/plant – 9 4. BC ratio - 3.3	The variety is susceptible to Early Blight and Late Blight.	Although <i>ArkaRakshakis</i> resistant to ToLCV, BW & EB, it was observed in the trials conducted that the variety was susceptible to	3.3

								Early Blight and Late Blight although not as severely as in the farmer's variety (017)	
5	Performance of bio agents for reducing the incidence of late blight in potato	Incidence of Late blight	Performance of bio agents for reducing the incidence of late blight in potato	Potato	3	Av. Yield (q/ha): 25 t/ha	The farmers were very much satisfied with the performance of bio agents that has led to the reduction of the disease incidence.		B:C: 2.7
						Net returns (Rs/ha): Rs.218560			
						Disease incidence-			
						<u>No of infected plant/25m2</u>			
						<u>Infected %:</u>			
						Location -1			
						12 plants/25m2			
						12%			
						Location -2			
						20 plants/25m2			
						20%			
						Location -3			
						15 plants/25m2			
						15%			

6	Organic management of white grub infestation in ginger (Variety: Vareda)	White grub infestation	Organic management of white grub infestation in ginger (Variety: Vareda)			Av. Yield (q/ha): 16 t/ha			B: C: 3.0
						Net returns (Rs/ha): Rs. 346960			
						Disease incidence-			
						<u>No of infected plant/25m2</u>			
						<u>Infected %:</u>			
						Location -1			
						2 plants/25m2			
						5%			
						Location -2			
						2 plants/25m2			
						5%			
						Location -3			
						4 plants/25m2			
						10%			
7	Performance of bio agents for reducing the incidence of soft rot of ginger (Variety:	Soft rot of ginger	Performance of bio agents for reducing the incidence of soft rot of ginger (Variety: Vareda)			Av. Yield (q/ha): 15 t/ha			B: C: 2.5
						Net returns (Rs/ha): Rs. 311960			
						Disease incidence-			
						<u>No of infected plant/25m2</u>			

	Vareda)					Infected %:			
						Location -1			
						2 plants/25m2			
						5%			
						Location -2			
						3 plants /25m2			
						7.50%			
						Location -3			
						5 plants/25m2			
						12.50%			
8	Performance of Paddy-Fish Integrated Farming System	Low Productivity and Income due to single enterprise	Paddy – Fish Integrated Farming System	Fish Paddy	3	Avg. Yield of Fish : 300 kgs/ha	Promising technology for doubling farmers income	Promising technology for doubling farmers income	2.3
						Avg. Yield of Paddy : 2100 kgs/ha			
						Net Return : Rs 78600/ha			
9	Performance of Fish cum Poultry cum Horticulture Integrated Farming System	Low Productivity and Income due to single enterprise	Fish cum horti cum poultry integrated farming system	Fish Poultry Ginger	3	Avg. fish wt during stocking : 80 gms	Technology can be promoted among the farmers who have a backyard pond only.	-	2.3
						Avg. fish wt. during harvesting : 220 gms			
						Avg. fish yield : 150 kgs/0.1 ha			
						Avg. poultry wt. : 900gms/bird			

						Ginger Yield : 45 kgs/48 sqm.			
	Impact assessment of FLDs on improved variety of tomato	Impact Assessment not done yet	TO1- Improved technology demonstrated through FLDs on Tomato var. MT-3 TO1- Non FLD tomato farmers var. 017	Tomato	2	<b>i. No of farmers:-</b> TO1= 20 TO2= 40 <b>ii. Variety Grown</b> TO1= MT-3 TO2= 017 <b>iii. Avg. yield (Q/ha.)</b> TO1=33..2 TO2=28 <b>iv. Disease Incidence</b> TO1= 30% TO2= 55% <b>v. Matrix Ranking Results for Preference</b> MT-3= 49.6% 017 = 70.4	The demonstrated variety although gives higher yield due to less disease incidence however the farmers do not prefer it due to its low keeping quality as well as the shape.	The improved varieties may be released taking into consideration not only the yield and disease resistance but even the marketability and preference of the variety.	<b>BCR</b> TO1= 3.0 TO2= 2.4
	Impact study on problems faced by farmers on production and marketing of newly introduced crops	Impact Assessment not done yet	TO1- Farmers continuing growing Broccoli and Babycorn TO1- Farmers who discontinued growing Broccoli and Babycorn	Babycorn, Broccoli	3	<b>i. No of farmers:-</b> TO1= 30 TO2= 30 <b>ii. Variety Grown</b> TO1= Broccoli var. Solan greenhead, Babycorn var RCM1-1 TO2= Cauliflower var local, Maize var local yellow <b>iii. Avg. yield (Q/ha.)</b> TO1= Broccoli (40q) Babycorn (2q) TO2= Cauliflower (200q), Maize (35q) <b>iv. 5 Major ranked</b>	The farmers who participated in the demonstrations of the newly introduced crops regarded that the unavailability of post harvest processing facilities is a hindrance as marketing is not done quickly and have to be stored for longer period.	During introduction of new crops care must be taken that support mechanism is also initiated so as to reduce loss for the farmers.	-



						problems faced by farmers in production and marketing of Broccoli and Babycorn <b>Ranked I</b> - Lack of post harvest processing facilities <b>Ranked II</b> - Presence of intermediaries <b>Ranked III</b> - Lack of information regarding prices <b>Ranked IV</b> - Unavailability of seeds <b>Ranked V</b> - Inadequate Storage Facilities in the village level			
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*\*Field crops – ton/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermicompost kg/unit area.*

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

**5 Achievements of Frontline Demonstrations during**  
**a. Follow-up for results of FLDs implemented during previous years**

**List of technologies demonstrated during previous years and popularized during 2019-20 and recommended for large scale adoption in the district**

Sl. No	Crop and Variety/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Mushroom	Low cost cultivation of oyster mushroom	20	200	100 units
2	Fish	Promotion of composite fish culture for enhancing fish production	3	10	1
3	Fish, Pig	Popularization of Pond Based Integrated Farming System for Livelihood Improvement of Small and Marginal Farmers	5	5	1
4	Fish	Popularization of improved fish varieties (JayantiRohu and Amur common carp)	1	2	0.2

**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 and frenchbean	Cropping System	Popularization of Maize + Frenchbean(1:1) intercropping system	Kharif 2019	1	1	6		6	Low yield due to attack of fall army worms	Rainfed	H 530.7	H 50.1	L 71.45
2	Vermicomposting	Production of organic manure	Popularization of production technology of vermicompost	Rabi	6 units	6 units	6		6	Ongoing	-			
3	Carrot	Nutrient management	Promotion of Organic nutrient management of carrot for sustainable income	Rabi 2019	2	2	30				Rainfed	561.2	56	76.16
4	Citrus	Nutrient management	Popularization of organic nutrient management in Khasi mandarin	Rabi 2020	2	2	20				Rainfed	561.2	56	76.16
5	Khasi Mandarin	Biological control	Promotion of organic management of insect pests and diseases in citrus trees	April-December and 2019	2	2	20			Rainfed Fine-loamy soil 25.564499, 92.036694				

## c. Performance of FLD on Crops during

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**	BC R**	GC	GR	NR	B C R
									Demo	Local								
1	Maize and frenchbean	Cropping System	1ha	Maize=19.14 Frenchbean=38.54	Maize=16.8 Frenchbean=34.7	Maize = 9.72% Frenchbean =8.39%	Maize=21.09 Frenchbean=39.85	Maize=13.77 Frenchbean=31.51			87,588	17,3030	85,442	1.9	82650	137700	55050	1.6
2	Vermicomposting	Production of organic manure	6 units	Ongoing														
3	Carrot	Nutrient management	2	20	80	-	25	15	The carrot var. <i>PusaVrastishow</i> s very good vegetative growth however tap root formation was very poor Therefore the yield was very less.		51944.52	110000	58055.48	2.1	85177.5	200000	114822.52	2.3
4	Citrus	Nutrient management	2	400 fruits/tree	100 fruits/tree	40	500	300	The citrus orchard had infestation of fruit fly	The citrus orchard had infestation of fruit fly and leaf miner	569365.06		930,634.00	2.8	143251.3	312500	169249	2.1
5	Khasi Mandarin	Biological control	2	400 fruits/tree	100 fruits/tree	40	500	300	Pest incidence 1. Leaf miner : 10 shoots 20% 2. Aphids: 10 shoots 20%	Pest incidence 1. Leaf miner : 30 shoots 60% 2. Aphids: 32 shoots 64%	569,365.06	1,500,000	930,634	2.8	143,251.30	312500	169249	2.1

									3. Mites: 12 shoots 24% 4. Trunk borer: 3 tress 15% 5. Bark eating caterpillar: 2 tress 10%	3. Mites: 35 shoots 70% 4. Trunk borer: 10 tress 50% 5. Bark eating caterpillar: 5 trees 25%							
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**\*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	Training		2 <sup>nd</sup> April, 15 <sup>th</sup> April, 7 <sup>th</sup> May,		45	45	Training was given on scientific cultivation of carrot and citrus
2	Method demonstration		2 <sup>nd</sup> April, 7 <sup>th</sup> May, 15 <sup>th</sup> October		38	38	Method demonstration was done on sowing of carrot and on fertilizer application in citrus trees.
3	Field days	2	7/10/2019 12/6/2019		20	20	
4	Farmer training	6	15 <sup>th</sup> -18 <sup>th</sup> April' 19 25 <sup>th</sup> -28 <sup>th</sup> June 9 <sup>th</sup> -12 <sup>th</sup> July' 19 6 <sup>th</sup> - 9 <sup>th</sup> Aug' 19 10--14 June'19		159	159	

5	Method demonstration	7	11 <sup>th</sup> March 19		206	206	
			22 <sup>nd</sup> march'19				
			10 <sup>th</sup> April'19				
			9 <sup>th</sup> May'19				
			12 <sup>th</sup> July'19				
			9 <sup>th</sup> Aug'19				
			22 <sup>nd</sup> Oct,19				
			17 <sup>th</sup> Dec'19				

E .Details of FLD on Enterprises

\* *Field efficiency, labour saving etc.*

(i) 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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.*

(ii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Themati c area	Name of Technol ogy	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the paramet er	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR **	NR **	BC R**	GC	GR	NR	BC R	
1	Indian major carps & Exotic carps	Pond manage ment	Promoti on of composi te fish culture for enhancin g fish producti on	10	10	10000	Avg. fish wt during stocking : 100 gms Avg. fish wt. during harvesti ng : 850 gms Avg. fish yield : 2100 kgs /ha	Avg. fish wt during stocking : 70 gms Avg. fish wt. during harvesti ng : 450 gms Avg. fish yield : 900 kgs/ha	133			1.8	3.5	1.7	1.9	0.8	1.2	0.4	1.5	-
2	Indian major carps & Exotic carps	IFS	Populari zation of Pond Based Integrate d Farming System for Livelih ood	5	5	Fish 5000 nos Piglets 10 nos	Avg. fish wt during stocking : 100 gms Avg. fish wt. during harvesti ng : 850	Avg. fish wt during stocking : 70 gms Avg. fish wt. during harvesti ng : 450 gms	155			2.93	6.80	3.67	2.25	0.8	1.2	0.4	1.5	-

			Improve ment of Small and Margina l Farmers				gms Avg. fish yield : 2300 kgs /ha Piglet producti on : 12 nos./unit	Avg. fish yield : 900 kgs /ha												
3	Jayantiroh u& Amur common carp		Populari zation of improve d fish varieties (Jayanti Rohu and Amur common carp)	2	2	2000 nos.	Avg. fish wt during stocking : 100 gms Avg. fish wt. during harvesti ng : B:C ratio	Avg. fish wt during stocking : 100 gms Avg. fish wt. during harvesti ng : B:C ratio	On Going in the farmers field											

**\*\* 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.**

**(iii) Other enterprises**

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost , apiculture	Themati c 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
											GC*	GR**	NR**	BCR*	G C	G R	N R	BC R	
						Demo	Check		Dem o	Chec k	*			*					





management																						
Seed production	0	0		0	0	0	0	0	0		0		0	0	0	0	0	0	0	0	0	
Nursery management	1	0	1	0	0	0	0	0	0	13	0	25	0	38	0	13	0	25	0	38	0	
Integrated Crop Management	2	0	2	0	0	0	0	0	0	18	0	58	0	76	0	18	0	58	0	76	0	
Fodder production	0	0		0	0	0	0	0	0		0		0	0	0	0	0	0	0	0	0	
Production of organic inputs	3	0	3	0	0	0	0	0	0	33	0	46	0	79	0	33	0	46	0	79	0	
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	2(2)		2(2)	0	0	0	0	0	0	13	0	13	36	26	36	13	0	13	36	26	36	49
Off-season vegetables	2(2)		2(2)	0	0	0	0	0	0	8	0	8	41	16	41	8	0	8	41	16	41	49
Nursery raising	1(1)		1(1)	0	0	0	0	0	0	5	0	5	25	10	25	5	0	5	25	10	25	49
Exotic vegetables like Broccoli	1(1)		1(1)	0	0	0	0	0	0	8	0	8	11	16	11	8	0	8	11	16	11	49
Export potential vegetables	1(1)		1(1)	0	0	0	0	0	0	8	0	8	11	16	11	8	0	8	11	16	11	49
Grading and standardization				0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	49
Protective cultivation (Green Houses, Shade Net etc.)	3(3)		3(3)	0	0	0	0	0	0	13	0	13	66	26	66	13	0	13	66	26	66	49
Post Harvest Technology	1(1)		1(1)	0	0	0	0	0	0	5	0	5	25	10	25	5	0	5	25	10	25	49









drudgery reduction technologies																						
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VII Plant Protection																						
Integrated Pest Management	7(5)		7(5)	0	0	0	0	0	0	54	0	79	0	133	0	54	0	79	0	133	0	133
Integrated Disease Management	4(2)		4(2)	0	0	0	0	0	0	13	0	54	0	67	0	13	0	54	0	67	0	67
Bio-control of pests and	13(6)		13(6)	0	0	0	0	0	0	53	0	88	0	141	0	53	0	88	0	141	0	141



Pearl culture				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site																			
Seed Production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics																			
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Group dynamics	1/1	0	1/1	0	0	0	0	0	0	3	0	15	0	18	0	3	0	15	0
Formation and Management of	4/2	0	4/2	0	0	0	0	0	0	33	0	25	0	58	0	33	0	25	0





**6.1.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programme**

(\*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	Femal e	Total				
				Off	Sp Off*	Off	Sp Off*	Of f	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cropping Systems	2	0	2	0	0	0	0	0	0	24	0	52	0	76	0	24	0	52	0	76	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Nursery management	1	0	1	0	0	0	0	0	0	1	0	40	0	41	0	1	0	40	0	41	0
Integrated Crop Management	2	0	2	0	0	0	0	0	0	54	0	4	0	58	0	54	0	4	0	58	0
Fodder production	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Production of organic inputs	4	0	4	0	0	0	0	0	0	30	0	31	0	61	0	30	0	61	0	91	0

Production of low volume and high value crops	1(1)		1(1)	0	0	0	0	0	0	8	0	8	6	16	6	8	0	8	6	16	6
Off-season vegetables				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	1(1)		1(1)	0	0	0	0	0	0	8	0	8	6	16	6	8	0	8	6	16	6
Export potential vegetables	1(1)		1(1)	0	0	0	0	0	0	8	0	8	6	16	6	8	0	8	6	16	6
Grading and standardization				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vertical farming	1(1)		1(1)	0	0	0	0	0	0	26	0	26	4	52	4	26	0	26	4	52	4
b) Fruits																					
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	2(1)	0	2(1)	0	0	0	0	0	0	26	0	26	4	52	4	26	0	26	4	52	4
c) Ornamental Plants																					
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0		0	0	0

plants																					
Export potential of ornamental plants	2(2)	0	2(2)	0	0	0	0	0	0	11	0	11	50	22	50	11	0	11	50	22	50
Propagation techniques of Ornamental Plants	2(1)	0	2(1)	0	0	0	0	0	0	1	0	1	40	2	40	1	0	1	40	2	40
Cultivation practices of important ornamental plants	1(1)	0	1(1)	0	0	0	0	0	0	19	0	19	20	38	20	19	0	19	20	38	20
Propagation techniques of Ornamental Plants	1(1)		1(1)							19		19		19	19	20	39				
d) Plantation crops																					
Production and Management technology	2(1)		2(1)	0	0	0	0	0	0	47	0	47	18	94	18	47	0	47	18	94	18
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
f) Spices																					
Production and Management technology	2(1)		2(1)	0	0	0	0	0	0	47	0	47	18	94	18	47	0	47	18	94	18
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VII Plant Protection																					
Integrated Pest Management	4(4 )		4(4)	0	0	0	0	0	0	28	0	59	0	87	0	28	0	59	0	87	0



issues																					
Information networking among farmers	1/1	0	1/1	0	0	0	0	0	0	5	0	23	0	28	0	5	0	23	0	28	0
Gender mainstreaming through SHGs	2/2	0	2/2	0	0	0	0	0	0	4	0	36	0	40	0	4	0	36	0	40	0
Financial Management of SHGs II (Cash Book, Ledger)	2/1	0	2/1	0	0	0	0	0	0	0	0	15	0	15	0	0	0	15	0	15	0
Farm Planning & Budgeting	2/1	0	2/1	0	0	0	0	0	0	8	0	11	0	19	0	8	0	11	0	19	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change Management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	58(43)	0	58(43)	0	0	0	0	0	0	594	0	735	4	1329	0	594	0	765	0	1359	
Thematic area	No. of Courses/ Prog																				
			General						SC/ST												
			Male	Femal e	Total		Male		Female		Total		Male			Female					
	On (1)	Sp On* (2)	Tota l (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				0	0	0	0	0	0	31	0	23	0	54	0	31	0	23	0	54	0
Bee-keeping	2(1)	0	2(1)	0	0	0	0	0	0	20	0	15	0	35	0	20	0	15	0	35	0
Integrated farming	2	0	0	0	0	0	0	0	0	12	0	28		40	0	12	0	28	0	40	0
Seed production	0	0	0	0	0	0	0	0	0	4	0	10		14	0	4	0	10	0	14	0
Production of organic inputs	3(2)	0	3(2)	0	0	0	0	0	0	10	9	24	6	34	15	10	9	24	6	34	15

biological control	6(3)	0	6(3)	0	0	0	0	0	0	18	0	17	0	35	0	18	0	17	0	35	0
IPM	2(2)	0	2(2)	0	0	0	0	0	0	18	0	17	0	35	0	18	0	17	0	35	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	2	0	0	0	0	0	0	0	0	19	0	20	0	39	0	19	0	20	0	39	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericulture	1(1)	0	1(1)	0	0	0	0	0	0	4	0	10	0	14	0	4	0	10	0	14	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	2(2)	0	2(2)	0	0	0	0	0	0	16	0	16	13	32	13	16	0	16	13	32	13
Production and management of tuber crops	1(1)	0	1(1)	0	0	0	0	0	0	12	0	12	3	24	3	12	0	12	3	24	3
Production and management of plantation crops	1(1)	0	1(1)	0	0	0	0	0	0	12	0	12	3	24	3	12	0	12	3	24	3
Production and management of spices	2(2)	0	2(2)	0	0	0	0	0	0	34	0	34	10	68	10	34	0	34	10	68	10
Scientific cultivation of vegetables	1(1)	0	1(1)	0	0	0	0	0	0	4	0	4	10	8	10	4	0	4	10	8	10
Rural Crafts	25(21)	0	3	0	0	0	0	0	0	214	9	242	45	456	54	214	9	242	45	456	54





Vermi-culture	0	0	0	0	0	0	0	0	0		
Sericulture	0	0	0	0	0	0	0	0	0		
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0		
Commercial fruit production	11(5)	0	11(5)	0	0	0	0	0	0	79	
Floriculture	1(1)	0	1(1)	0	0	0	0	0	0	19	
Landscaping	1(1)	0	1(1)	0	0	0	0	0	0	19	
cultivation of vegetable crops	0	0	0	0	0	0	0	0	0		
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0		
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0		
Composite fish culture	7	0	7	0	0	0	0	0	0	64	
Entrepreneurial development of Rural Youths (2)	2/1	0	2/1	0	0	0	0	0	0	15	0
Mobilization of social capital in villages (1)	0	0	0	0	0	0	0	0	0	0	0
Leader ship development in villages (1)	1/1	0	1/1	0	0	0	0	0	0	4	0
Capacity building for ICT application (2)	4/2	0	4/2	0	0	0	0	0	0	19	0
Project Management and Marketing	4/1	0	4/1	0	0	0	0	0	0	15	0
Custom Hiring Centre	0	0	0	0	0	0	0	0	0	0	0
TOTAL	31(25)	0	31(25)	0	0	0	0	0	0	290	0

Thematic area	No. of Courses/ prog										
	On  (1)	Sp On* (2)	Total (1+2)	General						Grand Total (x + y)	
				Male		Female		Total		Male	
				On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)
Productivity enhancement in field crops		0		0	0	0	0	0	0	0	0
Integrated Pest Management	3(2)	0	3(2)	0	0	0	0	0	0	10	
Nursery Raising		0		0	0	0	0	0	0	0	0
Kitchen Garden		0		0	0	0	0	0	0	0	0



machinery and implements											
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Syatem	1		1	0	0	0	0	0	0	0	
Household food security	0	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs											
Kitchen Garden	1(1)		1(1)							12	
Post Harvest	1(1)		1(1)							12	
Nursery Raising	1(1)		1(1)							12	
TOTAL	11(6)	0	11(6)	0	0	0	0	0	0	56	0

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

## 7 : 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	Organic farming and its importance Soil fertility management and Soil Health card Organic farming: an eco-friendly approach for sustainable agriculture Soil Sampling and analysis	Organic farming and its importance	15 <sup>th</sup> -18 <sup>th</sup> April 2019	4 days,4 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	5	25	30	5	25	30

	Organic package and practices of major field crops	Organic package and practices of major field crops	9 <sup>th</sup> -12 <sup>th</sup> July	4 days,3 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	8	11	19	8	11	19
	Nutrient management through organic sources Maize+ Beans-Vegetable pea cropping for rainfed condition under organic farming system Vermicomposting(Theory and practical) Biofertilizers and its application	Nutrient management through organic sources Maize+ Beans-Vegetable pea cropping for rainfed condition under organic farming system Vermicomposting(Theory and practical) Biofertilizers and its application	2 <sup>nd</sup> -5 <sup>th</sup> April	4 days	KVK, EKH Centre	Rural Youth	0	0	0	4	10	14	4	10	14
	Soil testing and use of rapid soil health kit Soil fertility management	Soil health management	25 <sup>th</sup> -28 <sup>th</sup> June	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	28		28	28	0	28
	Integrated Nutrient Management	INM in different crops	22 <sup>nd</sup> -25 <sup>th</sup> October	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	10	10	20	10	10	20
	SHM & FM	Importance and method of soil sampling Soil health management	19 <sup>th</sup> -22 <sup>nd</sup> Nov	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	4	19	23	4	19	23
		Principles and practices of Organic farming Minerals /elements essential for Plants	6 <sup>th</sup> -9 <sup>th</sup> Aug,	3 days	KVK. EKH Centre	Farmers and Farm Women	0	0	0	2	18	20	2	18	20
	Organic farming	Organic farming for sustainability Minerals /elements essential for Plants	9 <sup>th</sup> -11 <sup>th</sup> Dec,4 <sup>th</sup> -6 <sup>th</sup> Dec'19 16 <sup>th</sup> -19 <sup>th</sup> Dec'19	3 days	KVK. EKH Centre	Rural Youth Farmers and Farm Women	0	0	0	30	61	30	5	25	30
	Cropping System	Cropping patterns Soil health and Soil fertility	12 <sup>th</sup> -15 <sup>th</sup> Nov	4 days	KVK, EKH Centre	Extension Personnel	0	0	0	6	6	12	6	6	12
		Principles and practices of Organic farming	28-30 <sup>th</sup> Oct	4 days	KVK, EKH Centre	Extension Personnel	0	0	0	6	9	15	6	9	15

Horticulture	Production of low volume and high value crops		15 <sup>th</sup> -18 <sup>th</sup> April, 21-24 <sup>th</sup> May	4 days,4 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	11	31	42	11	31	42
	Off-season vegetables		9 <sup>th</sup> -12 <sup>th</sup> July ,4 <sup>th</sup> -6 <sup>th</sup> Dec	4 days,3 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	8	11	19	8	11	19
	Nursery raising		15 <sup>th</sup> -18 <sup>th</sup> April,24 <sup>th</sup> -29 <sup>th</sup> Nov	4 days,4 days	KVK, EKH centre	Farmers and Farm Women, Extension Personnel	0	0	0	8	11	19	8	11	19
	Exotic vegetables like Broccoli		21-24 <sup>th</sup> May	4 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	25	71	96	25	71	96
	Export potential vegetables		21-24 <sup>th</sup> May	4 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	5	25	30	5	25	30
	Protective cultivation (Green Houses, Shade Net etc.)		15 <sup>th</sup> -18 <sup>th</sup> April, 9 <sup>th</sup> -12 <sup>th</sup> July,4 <sup>th</sup> -6 <sup>th</sup> Dec,16 <sup>th</sup> -19 <sup>th</sup> Dec	4 days,4 days, 3 days,3 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	4	10	14	4	10	14
	Post harvest technology and value addition		15 <sup>th</sup> -18 <sup>th</sup> April,	4 days	KVK, EKH centre	Farmers and Farm Women	0	0	0	28		28	28	0	28
	Cultivation of vegetables crops		2 <sup>nd</sup> -5 <sup>th</sup> April	4 days	KVK, EKH Centre	Rural Youth	0	0	0	28		28	28	0	28
	Training and Pruning		25 <sup>th</sup> -28 <sup>th</sup> June	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	28		28	28	0	28
	Cultivation of Fruit crops		25 <sup>th</sup> -28 <sup>th</sup> June	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0			0	0	0	0
			25 <sup>th</sup> -28 <sup>th</sup> June	4 days	KVK, EKH 28Centre	Farmers and Farm Women	0	0	0			0	0	0	0
	Export potential of ornamental plants		22 <sup>nd</sup> -25 <sup>th</sup> October	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0			0	0	0	0
	Propagation techniques of Ornamental Plants			4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	10	10	20	10	10	20
	Floriculture		19 <sup>th</sup> -22 <sup>nd</sup> Nov	4 days	KVK, EKH Centre	Farmers and Farm Women	0	0	0	10	10	20	10	10	20
			2 <sup>nd</sup> -5 <sup>th</sup> April, 19 <sup>th</sup> -22 <sup>nd</sup> Nov	4 days,4 days	KVK, EKH Centre	Rural Youth, Farmers and Farm Women	0	0	0	4	19	23	4	19	23
			6 <sup>th</sup> -9 <sup>th</sup> Aug,	3 days	KVK. EKH Centre	Farmers and Farm Women	0	0	0	4	10	14	4	10	14

			6 <sup>th</sup> -9 <sup>th</sup> Aug,	3 days	KVK. EKH Centre	Farmers and Farm Women	0	0	0	2	18	20	2	18	20
			6 <sup>th</sup> -9 <sup>th</sup> Aug,	3 days	KVK. EKH Centre	Farmers and Farm Women	0	0	0	2	18	20	2	18	20
	Production and Management technology of Spices		9 <sup>th</sup> -11 <sup>th</sup> Dec	3 days	KVK. EKH Centre	Rural Youth	0	0	0	2	18	20	2	18	20
	Production and Management technology of plantation crops		9 <sup>th</sup> -11 <sup>th</sup> Dec	3 days	KVK. EKH Centre	Rural Youth	0	0	0	12	3	15	12	3	15
	Production and Management technology of tuber crops		2 <sup>nd</sup> -5 <sup>th</sup> April,9 <sup>th</sup> -11 <sup>th</sup> Dec,16 <sup>th</sup> -19 <sup>th</sup> Dec	4 days,3 days, 3 days	KVK, EKH Centre	Rural Youth Farmers and Farm Women	0	0	0	12	3	15	12	3	15
	Kitchen Garden		24 <sup>th</sup> -29 <sup>th</sup> Nov	4 days	KVK, EKH Centre	Extension Personnel	0	0	0	34	41	75	34	41	75
	Homestead farming		24 <sup>th</sup> -29 <sup>th</sup> Nov,	4 days	KVK, EKH Centre	Extension Personnel	0	0	0	6	6	12	6	6	12
Plant Protection	Biological control		9 <sup>th</sup> -11 <sup>th</sup> Jan'19	4 days	KVK center	Farmer & Farm women	0	0	0	6	6	12	6	6	12
			22 <sup>nd</sup> -28 <sup>th</sup> Feb'19	7 days	KVK center	Rural youth	0	0	0	0	28	28	0	28	28
			11 <sup>th</sup> -15 <sup>th</sup> March'19	5 days	KVK center	Farmer & Farm women,	0	0	0	0	15	15	0	15	15
			5 <sup>th</sup> -8 <sup>th</sup> March'19	4 days	KVK center	Extension personnel	0	0	0	16	27	43	16	27	43
			25 <sup>th</sup> -28 <sup>th</sup> March'19	4 days	KVK center	Extension personnel	0	0	0	5	15	20	5	15	20
			5 <sup>th</sup> -8 <sup>th</sup> April'19	4 days	KVK center	Rural youth	0	0	0	5	15	20	5	15	20
			15 <sup>th</sup> -18 <sup>th</sup> April'19	4 days	KVK center	Farmer & Farm women,	0	0	0	4	14	18	4	14	18
			6 <sup>th</sup> -9 <sup>th</sup> , May'19	4 days	KVK center	Farmer & Farm women,	0	0	0	5	30	35	5	30	35
			25th -28th June	4 days	KVK center	Farmer & Farm women	0	0	0	8	14	22	8	14	22
			7 <sup>th</sup> & 14 <sup>th</sup> June'19	2 days	KVK center	Rural youth	0	0	0	28	28	56	28	28	56
			9 <sup>th</sup> -12 <sup>th</sup> July'19	4 days	KVK center	Farmer & Farm women,	0	0	0	15	15	30	15	15	30
			6 <sup>th</sup> - 9 <sup>th</sup> Aug'19	4 days	KVK center	Farmer & Farm women,	0	0	0	8	19	27	8	19	27

			10 <sup>th</sup> -13 <sup>th</sup> September	4 days	KVK center	Farmer & Farm women,	0	0	0	2	20	22	2	20	22
			4 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> Oct '19	4 days	KVK center	Rural youth	0	0	0	3	30	33	3	30	33
			14 <sup>th</sup> , 15 <sup>th</sup> , 18 <sup>th</sup> Oct'19	3 days	KVK center	Rural youth	0	0	0	8	24	32	8	24	32
			22 <sup>nd</sup> , 23 <sup>rd</sup> 24 <sup>th</sup> Oct'19	4 days	KVK center	Farmer & Farm women,	0	0	0	11	15	26	11	15	26
			24 <sup>th</sup> , 25 <sup>th</sup> ,28 <sup>th</sup> October	3 days	KVK center	Extension personnel	0	0	0	2	20	22	2	20	22
			2 <sup>nd</sup> -5 <sup>th</sup> Dec'19	4 days	KVK center	Farmer & Farm women, Rural youth	0	0	0	6	15	21	6	15	21
			9 <sup>th</sup> -11 <sup>th</sup> Dec'19	3 days	KVK center	Rural youth	0	0	0	18	46	64	18	46	64
			16 <sup>th</sup> -19 <sup>th</sup> Dec'19	4 days	KVK center	Farmer & Farm women,	0	0	0	12	15	27	12	15	27
Fisheries	Pond Management	Composite Fish Culture in Hills	9-11Jan, 19	3 days	SBCL Training hall	Farmer and Farm Women	0	0	0	0	30	30	0	30	30
	Pond Management	Composite Fish Culture in Hills	22-28 Feb, 2019	7 days	SBCL Training hall	Farmer and Farm Women	0	0	0	5	28	33	5	28	33
	Integrated Farming System	Pond based integrated farming system for small and marginal farmers	25-28 Mar, 2019	3 days	SBCL Training hall	Farmer and Farm Women	0	0	0	0	15	15	0	15	15
	Integrated Farming System	Pond based integrated farming system for small and marginal farmers	4-8 Mar, 2019	5 days	SBCL Training hall	Rural Youth	0	0	0	16	27	43	16	27	43
	Integrated Farming System	Breeding of amur common carp and common carp, wild and happa breeding	2-5 Apr, 2019	4 days	SBCL Training hall	Farmer and Farm Women	0	0	0	10	30	40	10	30	40
	Pond Management	Composite fish culture in hills	9-2 Jul, 2019	4 days	SBCL Training hall	Farmer and Farm Women	0	0	0	5	30	35	5	30	35
	Integrated Farming System	Pond based integrated farming system for small and marginal farmers	29-Aug-19	1 day	SBCL Training hall	Farmer and Farm Women	0	0	0	19	19	38	19	19	38

	Integrated Farming System	Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production models with special reference to rice cum fish culture			SBCL Training hall	Farmer and Farm Women	0	0	0	35	35	70	35	35	70
	Pond management	Composite fish culture in hills	4,9,10,11 Oct, 2019	14,15,18 Oct, 2019	4 days3 days	SBCL Training hall	Rural Youth	0	0	0	20	20	40	20	40
		Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production models with special reference to rice cum fish culture	19-22 Nov, 2019	24-29 Oct, 2019	4 days5 days	SBCL Training hall	Farmer and Farm Women	0	0	0	39	39	78	39	78
		Composite fish culture in hills	2-5 Dec, 2019	4-6 Dec, 2019	4 days3 days	SBCL Training hall	Rural Youth	0	0	0	38	38	76	38	76
	Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production models with special reference to rice cum fish culture				SBCL Training hall	Farmer and Farm Women	0	0	0	15	15	30	15	15	30
Extension	Managing Group Dynamics		9 <sup>th</sup> -11 <sup>th</sup> Jan'19	4 days	KVK center	Farmer & Farm women	0	0	0	6	6	12	6	6	12
	Entrepreneurial development of Rural Youths		22 <sup>nd</sup> -28 <sup>th</sup> Feb'19	7 days	KVK center	Rural youth	0	0	0	0	28	28	0	28	28
	Mobilization of social capital in villages		11 <sup>th</sup> -15 <sup>th</sup> March'19	5 days	KVK center	Farmer & Farm women,	0	0	0	0	15	15	0	15	15
	Public Private Partnership		5 <sup>th</sup> -8 <sup>th</sup> March'19	4 days	KVK center	Extension personnel	0	0	0	16	27	43	16	27	43



	Central schemes and programmes		25 <sup>th</sup> -28 <sup>th</sup> March'19	4 days	KVK center	Extension personnel	0	0	0	5	15	20	5	15	20
	Capacity building for ICT application		5 <sup>th</sup> -8 <sup>th</sup> April'19	4 days	KVK center	Rural youth	0	0	0	5	15	20	5	15	20
	Formation and Management of SHG		15 <sup>th</sup> -18 <sup>th</sup> April'19	4 days	KVK center	Farmer & Farm women,	0	0	0	4	14	18	4	14	18
	Gender mainstreaming through SHGs		6 <sup>th</sup> -9 <sup>th</sup> , May'19	4 days	KVK center	Farmer & Farm women,	0	0	0	5	30	35	5	30	35
	Farm Planning & Budgeting		25th -28th June	4 days	KVK center	Farmer & Farm women	0	0	0	8	14	22	8	14	22
	Project Management and Marketing		7 <sup>th</sup> & 14 <sup>th</sup> June'19	2 days	KVK center	Rural youth	0	0	0	28	28	56	28	28	56
	Capacity building for ICT application		9 <sup>th</sup> -12 <sup>th</sup> July'19	4 days	KVK center	Farmer & Farm women,	0	0	0	15	15	30	15	15	30
	Change Management		6 <sup>th</sup> - 9 <sup>th</sup> Aug'19	4 days	KVK center	Farmer & Farm women,	0	0	0	8	19	27	8	19	27
	Mobilization of social capital in villages		4 <sup>th</sup> , 9 <sup>th</sup> , 10 <sup>th</sup> , 11 <sup>th</sup> Oct '19	4 days	KVK center	Rural youth	0	0	0	3	30	33	3	30	33
	Entrepreneurship Development		22 <sup>nd</sup> , 23 <sup>rd</sup> 24 <sup>th</sup> Oct'19	4 days	KVK center	Farmer & Farm women,	0	0	0	11	15	26	11	15	26
	Formation and Management of SHGs		24 <sup>th</sup> , 25 <sup>th</sup> ,28 <sup>th</sup> October	3 days	KVK center	Extension personnel	0	0	0	2	20	22	2	20	22
	Leadership Development		16 <sup>th</sup> -19 <sup>th</sup> Dec'19	4 days	KVK center	Farmer & Farm women,	0	0	0	12	15	27	12	15	27

#### 7.1. 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
Agronomy		Soil testing and use of rapid soil health kit Soil fertility management	11 <sup>th</sup> -14 <sup>th</sup> June	4 days	Pynsursla	Farmers and Farm Women				26	4	30	26	4	30
		INM in different crops	3 <sup>rd</sup> ,4 <sup>th</sup> ,9 <sup>th</sup> oct	3 days	Nongsohphan	Farmers and				6	39	45	6	39	45

			21 <sup>st</sup> -24 <sup>th</sup> Oct	4 day	,Tynring	Farm Women									
		Importance and method of soil sampling Soil health management Biofertilizers Organic Farming	24 <sup>th</sup> - 29 <sup>th</sup> November	4days	Pynsursla	INM in different crops									
		Importance and method of soil sampling Soil health management Biofertilizers  Organic Farming	2 <sup>nd</sup> -5 <sup>th</sup> Dec		Laitkynsew	Principles and practices of Organic farming Minerals /elements essential for Plants Testing the quality of soil and its management Organic farming for sustainability				5	12	17	5	12	17
Horticulture	Production of low volume and high value crops	6-9 <sup>th</sup> May	4 days	Smit	Farmers and Farm Women					8	14	22	8	14	22
	Exotic vegetable production	6-9 <sup>th</sup> May	4 days	Smit	Farmers and Farm Women					8	14	22	8	14	22
	Production of export potential vegetables	6-9 <sup>th</sup> May	4 days	Smit	Farmers and Farm Women					8	14	22	8	14	22
	Post Harvest Technology	30 <sup>th</sup> -31 <sup>st</sup> May	4 days,	MAMETI, 7 <sup>th</sup> Mile	Extension Personnels					12	36	48	12	36	48
	Kitchen Garden	30 <sup>th</sup> -31 <sup>st</sup> May	4 days,	MAMETI, 7 <sup>th</sup>	Extension					12	36	48	12	36	48

				Mile	Personnels										
	Nursery Raising	30 <sup>th</sup> -31 <sup>st</sup> May	4 days,	MAMETI, 7 <sup>th</sup> Mile	Extension Personnels					12	36	48	12	36	48
	Cultivation practices of fruit crops	11 <sup>th</sup> -14 <sup>th</sup> June	4 days	Pynursla	Farmers and Farm Women					26	30	56	26	30	56
		11 <sup>th</sup> -14 <sup>th</sup> June	4 days	Pynursla	Farmers and Farm Women					26	30	56	26	30	56
		12 <sup>th</sup> -15 <sup>th</sup> Nov	4 days	Pynursla	Farmers and Farm Women					9	15	24	9	15	24
	Rejuvenation of citrus orchard	12 <sup>th</sup> -15 <sup>th</sup> Nov	4 days	Pynursla	Farmers and Farm Women					9	15	24	9	15	24
	Vertical Farming	11 <sup>th</sup> -14 <sup>th</sup> June	4 days	Pynursla	Farmers and Farm Women					26	30	56	26	30	56
	Floriculture	12 <sup>th</sup> June, 23 <sup>rd</sup> Aug	4 days,3 days	BATC	Rural Youth					30	30	60	30	30	60
		12 <sup>th</sup> June, 23 <sup>rd</sup> AugS	4 days, 3 days	BATC	Rural Youth					30	30	60	30	30	60
		8 <sup>th</sup> -12 <sup>th</sup> July,2 <sup>nd</sup> Sept	4 days,3 days	BATC	Rural Youth					34	34	68	34	34	68
		8 <sup>th</sup> -12 <sup>th</sup> July,16 <sup>th</sup> Sept	4 days, 3 days	BATC	Rural Youth					34	34	68	34	34	68
		8 <sup>th</sup> -12 <sup>th</sup> July, 13 <sup>th</sup> ,14 <sup>th</sup> & 16 <sup>th</sup> Aug	4 days,3 days	BATC, Lad Mawphlang	Rural Youth. Farmers and Farm Women					20	20	40	20	20	40
		8 <sup>th</sup> -12 <sup>th</sup> July	4 days	BATC	Rural Youth					19	19	38	19	19	38
		13 <sup>th</sup> ,14 <sup>th</sup> & 16 <sup>th</sup> Aug	3 days	Lad Mawphlang	Farmers and Farm Women					1	41	42	1	41	42
		13 <sup>th</sup> ,14 <sup>th</sup> & 16 <sup>th</sup> Aug, 22 <sup>nd</sup> ,29 <sup>th</sup> Oct.	3 days, 3days	Lad Mawphlang,	Farmers and Farm Women,					16	66	82	16	66	82

				BATC	Rural Youth										
		22 <sup>nd</sup> ,29 <sup>th</sup> Oct.	3 days	BATC	Rural Youth					15	15	30	15	15	30
	Organic cultivation	8 <sup>th</sup> -12 <sup>th</sup> July	4 days	BATC	Rural Youth					19	19	38	19	19	38
	Production and Management technology of spices	10 <sup>th</sup> -13 <sup>th</sup> Sept, 24 <sup>th</sup> -27 <sup>th</sup> Sept	3 days, 3 days	Tynring, Nongpyuir	Farmers and Farm Women					47	65	112	47	65	112
	Production and Management technology of plantation crops	10 <sup>th</sup> -13 <sup>th</sup> Sept, 24 <sup>th</sup> -27 <sup>th</sup> Sept	3 days, 3 days	Tynring, Nongpyuir	Farmers and Farm Women					47	65	112	47	65	112
	Production and Management technology of tuber crop	2 <sup>nd</sup> -5 <sup>th</sup> Dec	4 days	Laitkynsew	Farmers and Farm Women					12	17	29	12	17	29
	Protective cultivation	2 <sup>nd</sup> -5 <sup>th</sup> Dec	4 days	Laitkynsew	Farmers and Farm Women					12	17	29	12	17	29
	Biological control	15 <sup>th</sup> -18 <sup>th</sup> January'19	4 days	IATC	Rural youth							0	0	0	0
		22 <sup>nd</sup> -25 <sup>th</sup> Jan'19	4 days	Laitdiengsai	Farmer & Farm women					5	28	33	5	28	33
	IPM	18 <sup>th</sup> -20 <sup>th</sup> Feb'19	3 days	Tynring	Rural youth					5	28	33	5	28	33
	Biological control	13 <sup>th</sup> -16 <sup>th</sup> May'19	4	Smit	Farmer & Farm women,					3	18	21	3	18	21
		21 <sup>st</sup> – 24 <sup>th</sup> May'19	4 days	Tynring	Farmer & Farm women,					8	19	27	8	19	27
		30 <sup>th</sup> -31 <sup>st</sup> ,May'19	2 days	IATC	Extension personnel					12	24	36	12	24	36

		10-14 June'19	4 days	Pynursla	Farmer & Farm women, Rural youth				26	30	56	26	30	56	
		16 <sup>th</sup> & 18 <sup>th</sup> July'19	3 days	BATC	Rural youth				1	16	17	1	16	17	
		13 <sup>th</sup> , 14 <sup>th</sup> & 16 <sup>th</sup> Aug'19	3 days	Lad Mawphlang	Farmer & Farm women,				1	41	42	1	41	42	
		21 <sup>st</sup> -23 <sup>rd</sup> Aug'19	3 days	IATC	Rural youth				0	20	20	0	20	20	
		5 <sup>th</sup> , 6 <sup>th</sup> & 19 <sup>th</sup> Sept'2019	3 days	IATC	Rural youth				1	21	22	1	21	22	
		24 <sup>th</sup> -27 <sup>th</sup> September 2019	4 days	Pynursla	Farmer & Farm women,				20	35	55	20	35	55	
		28 <sup>th</sup> , 29 <sup>th</sup> , 30 <sup>th</sup> Oct'19	3 days	Nongsohphan	Farmer & Farm women,				4	25	29	4	25	29	
		3 <sup>rd</sup> , 4 <sup>th</sup> , 9 <sup>th</sup> Oct'19	3 days	Tynring	Farmer & Farm women,				0	14	14	0	14	14	
		4 <sup>th</sup> -6 <sup>th</sup> Dec'19	3 days	Laitkynsew	Farmer & Farm women,				5	17	22	5	17	22	
Fisheries	Pond Management	Composite fish culture in hills	9,11,28,31 Jan, 2019	4 days	Laitdiengsai	Farmer and farm women	0	0	0	28		28	28	0	28
	Integrated Farming System	Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production models with special reference to rice cum fish culture	23 Jan, 2019	1 day	BATC, 7 <sup>th</sup> Mile	Rural Youth				16		16	16	0	16
	Pond Management	Composite fish culture in hills	18-19 Feb, 2019	2 days	Tynring	Rural Youth	0	0	0	18		18	18	0	18
	Integrated Farming System	Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production	30-31 May, 2019	2 Days	MAMETI	Extension Personnel	0	0	0	24		24	24	0	24

		models with special reference to rice cum fish culture													
	Pond Management	Composite fish culture in hills	12,20 Jun, 2019	2 days	BATC 6 <sup>th</sup> , Mile	Rural Youth	0	0	0	15		15	15	0	15
		Composite fish culture in hills	11, 25, 30 Sept, 2019	3 days	MAMETI 6 <sup>th</sup> , Mile	Rural Youth	0	0	0	15		15	15	0	15
	Integrated Farming System	Livelihood improvement of small and marginal farmers through integrated agriculture/horticulture fish production models with special reference to rice cum fish culture	24-29 Nov, 2019	5 days	Pynursla	Farmer and Farm Women	0	0	0	15		15	15	0	15
		Culture and Breeding of ornamental Fishes	4-6 Dec, 2019	3 Days	Laitkynsew	Farmer and Farm Women	0	0	0	17		17	17	0	17
Extension	Information networking among farmers	-	22nd -26 <sup>th</sup> Jan'19	4	Laitdiengsai	Farmer & Farm women,	0	0	0	3	18	21	3	18	21
	Formation and Management of SHGs	-	21 <sup>st</sup> – 24 <sup>th</sup> May'19	4 days	Tynring	Farmer & Farm women,	0	0	0	8	19	27	8	19	27
	Financial Management of SHGs II (Cash Book, Ledger)	-	10-14 June'19	4 days	Pynursla	Farmer & Farm women, Rural youth	0	0	0	26	30	56	26	30	56
	Farm Planning & Budgeting	-	13 <sup>th</sup> , 14 <sup>th</sup> & 16 <sup>th</sup> Aug'19	3 days	Lad Mawphlang	Farmer & Farm women,	0	0	0	1	41	42	1	41	42
	Entrepereneursh ip Development	-	24 <sup>th</sup> -27 <sup>th</sup> September 2019	4 days	Pynursla	Farmer & Farm women,	0	0	0	20	35	55	20	35	55
	Capacity building for	-	28 <sup>th</sup> , 29 <sup>th</sup> , 30 <sup>th</sup> Oct'19	3 days	Nongsohphan	Farmer & Farm women,	0	0	0	4	25	29	4	25	29

	ICT application														
	Leadership Development	-	3 <sup>rd</sup> , 4 <sup>th</sup> , 9 <sup>th</sup> Oct'19	3 days	Tynring	Farmer & Farm women,	0	0	0	0	14	14	0	14	14
	Farm Planning & Budgeting		4 <sup>th</sup> -6 <sup>th</sup> Dec'19	3 days	Laitkynsew	Farmer & F arm women,	0	0	0	5	17	22	5	17	22

7. 2. 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	

*\*training title should specify the major technology /skill transferred*

7.4. 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									Sponsorin g Agen cy	Amount of fund receive d (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
on	RY		6 days	Horticulture	Cultivation of vegetable crops	Common vegetable crops of East Khasi Hills district	0	0	0	30		30	30		30		
on	RY		6 days	Plant Protection	IPM	IPM of vegetables	0	0	0	10	5	15	10	5	15	MAN AGE	
on	RY		6 days	Plant Protection	Biological control	Production of bio agents	0	0	0	9	6	15	9	6	15	MAN AGE	
ON	RY	1 <sup>st</sup> Dec – 7 <sup>th</sup> Dec 2019	6 days	Extension	Custom Hiring Centre	Establishment of Custom Hiring Centre in Villages	0	0	0	14	1	15	14	1	15	MAN AGE Hyderabad	44000.00

8.1. Extension Activities (including activities of FLD programmes)

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	Nursery Raising, Line sowing of vegetables, Potting and re-potting of	15.03.2019/1day 02.05.2019/1day 03.03.2019/1day	35	0	0	0	130	130	260	20	20	40	150	150	300



		house plants, kitchen garden, de-hulming of potato ,storage of potato, etc Biological control, IPM, IDM, Mushroom cultivation	12.06.2019/1day 26.06.2019/1day 05.07.2019/1day 09.07.2019/1day 08.08.2019/1day 21.08. 2019/1day 22.08. 2019/1day 17.09. 2019/1day 20.09. 2019/1day 24.09. 2019/1day 16.10. 2019/1day 17.10. 2019/1day 15.07. 2019/1day 01.08. 2019/1day 22.08. 2019/1day 30. 08. 2019/1day 30. 08. 2019/1day 09. 09. 2019/1day 11. 09. 2019/1day 22. 10. 2019/1day 15.11. 2019/1day 19. 11. 2019/1day 20 . 11. 2019/1day 02.12. 2019/1day													
2	Diagnostic visit	Early blight and Late blight in tomato, Late blight in potato, Infestation by Cabbage butterfly, Yellowing in Frenchbean , Powdery mildew in Gerbera, sooty mould formation in Chrysanthemum, Aphids in Lettuce • Lime Application to	15.03. 2019/1day 02.05. 2019/1day 03.05. 2019/1day 20.05. 2019/1day 12.07. 2019/1day 26.06. 2019/1day 05.07. 2019/1day 09.07. 2019/1day 08.08. 2019/1day 21.08. 2019/1day 22.08. 2019/1day	74	0	0	0	146	204	350	20	15	35	166	219	385

[illegible]

			06.12. 2019/1day 20.12. 2019/1day 17.12. 2019/1day													
3	Field day	Identification of insects pests and diseases and their management Promotion of Organic nutrient management of carrot for sustainable income, Varietal performance of Tomato var. ArkaRakshak for enhancing productivity and income of farmers, Popularization of organic nutrient management in Khasi mandarin Performanace of biogents against late blight in potato, cultivation of oyster mushroom, organic management of soft rot and white grub in ginger	17.01.2019/1day 22.01.2019/1day 06.02.2019/1day 05.03.2019/1day 12.03.2019/1day 13.03.2019/1day 15.03.2019/1day 19.03.2019/1day 21.03. 2019/1day 26.03.2019/1day 10.04. 2019/1day 22.04. 2019/1day 02.05. 2019/1day 16.05. 2019/1day 14.05. 2019/1day 20.05. 2019/1day 21.05. 2019/1day 14.05. 2019/1day 20.05. 2019/1day 25.06.2019/1day 28.06. 2019/1day 05.07. 2019/1day 22.07. 2019/1day 01.08. 2019/1day 22.08. 2019/1day 30.08. 2019/1day 09.09.2019/1day 22. 10. 2019/1day 15.11. 2019/1day 19. 11. 2019/1day 20 .11. 2019/1day 02. 12. 2019/1day 10 .07. 2019/1day 14. 11. 2019/1day 06.12. 2019/1day	38	0	0	0	165	278	443	30	60	90	195	338	533
4	Group Discussion	Nursery Raising,	22.01. 2019/1day	79	0	0	0	648	723	1371	21	16	37	664	744	1408

[illegible]

		IPM in potato, IPM in citrus orchard, IPM inn rice, improved technologies , Ipm in vegetables, IPM in pulses  Group Dynamics, Financial Management of SHGs, Farm Planning and Budgetting, Marketing of Perishable agricultural products	19.11. 2019/1day 02.12. 2019/1day 06.12.2019/1day 17.01. 2019/1day 10.04. 2019/1day 22. 04.2019/1day 14.05. 2019/1day 20.05. 2019/1day 21.05. 2019/1day 05.07. 2019/1day 30.08. 2019/1day 11.09. 2019/1day 15.11. 2019/1day 19.11. 2019/1day 02.12. 2019/1day 06.12. 2019/1day														
5	KishanGosthi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KishanMela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Film show	Nursery raising in pro- trays, Protective cultivation, Landscaping ,Cultivation practices of Anthurium oyster mushroom cultivation, bee keeping • Rice cum fish culture • Integrated farming system • Breeding of commonly cultivable fish species	25.01.2019/1day 18.02. 2019/1day 19.02. 2019/1day ,22.02. 2019/1day 28.02. 2019/1day 24.02. 2019/1day 26.03. 2019/1day 27.03. 2019/1day 27.05. 2019/1day 26.06. 2019/1day 08.07. 2019/1day 16.09. 2019/1day 10.04.2019/1day 25th June'19 23.01. 2019/1day 19.02. 2019/1day	15	0	0	0	195	159	354	0	0	0	195	159	354	

			27.03. 2019/1day 10.06. 2019/1day 25.07. 2019/1day 25.08. 2019/1day 25.09. 2019/1day 21.11.2019/1day													
7	SHG formation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Exhibition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Scientists visit to farmers fields	Diagnostic visit and monitoring of crops under OFT and FLD. diagnostic visit, monitoring of insect pests and diseases, conducting method demonstration	05.03. 2019/1day 15.03. 2019/1day 02.05. 2019/1day 03.03. 2019/1day 20.05. 2019/1day 12.06. 2019/1day 24.06. 2019/1day 26.06.2019/1day 05.07. 2019/1day 09.07. 2019/1day 08.08. 2019/1day 21.08. 2019/1day 22.08. 2019/1day 17.09. 2019/1day 20.09. 2019/1day 24.09. 2019/1day 16.10. 2019/1day 17.10. 2019/1day 15.11. 2019/1day 18.11. 2019/1day 22.11. 2019/1day 27.11. 2019/1day 06.12. 2019/1day 11.12. 2019/1day 17.01.2019/1day 22.01. 2019/1day	71	0	0	0	1904	390	629	30	60	90	269	450	719

			06.02. 2019/1day 05.03. 2019/1day 12.03. 2019/1day 13.03. 2019/1day 15.03. 2019/1day 19.03. 2019/1day 21.03. 2019/1day 26.03. 2019/1day 10.04. 2019/1day 22.04. 2019/1day 02.05. 2019/1day 16.05. 2019/1day 14.05. 2019/1day 20.05. 2019/1day 21.05. 2019/1day 14.05. 2019/1day 20.05. 2019/1day 25.06. 2019/1day 28.06. 2019/1day 05.07. 2019/1day 22.07. 2019/1day 01.08. 2019/1day 22.08. 2019/1day 30.08. 2019/1day 09.09. 2019/1day 22.10. 2019/1day 15.11. 2019/1day 19.11. 2019/1day 20.11. 2019/1day 02.12. 2019/1day													
1	Farmers visit to KVK	Trainings ,discussions etc advisory service,	05.06. 2019/1day 21.06. 2019/1day 15.10. 2019/1day	55	0	0	0	213	190	403	0	0	0	213	190	403

		On campus trainings, farm visit	16.10.2019/1day 15.11. 2019/1day 05.12. 2019/1day 17.12. 2019/1day 03.01. 2019/1day 23.01. 2019/1day 07.02. 2019/1day 21.02. 2019/1day 02.04. 2019/1day 12.04. 2019/1day 07.05. 2019/1day 23.05. 2019/1day 06.06. 2019/1day 26.06. 2019/1day 04.07. 2019/1day 12.07. 2019/1day 07.08. 2019/1day 13.08. 2019/1day 22.08. 2019/1day 07.11.2019/1day 10.12.2019/1day													
1	Plant/ Animal Health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Farm science club	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Ex-trainee Sammelan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Farmers seminar/ workshop	World Pulses day 10th February 1 50 60 110 50 50 100 100 110 210	10.02.2019/1day	1				50	60	110	50	50	100	100	110	210
1	Method demonstration	Nursery Raising in pro- trays, Nursery Raising in open field, Propagation of gerbera,	15.03,2019/1day 27.05.2019/1day 24.07.2019/1day 12.07.2019/1day	8	0	0	0	103	87	189	0	0	0	103	87	189





		Use and application of methods of Trichodermaharzianum and Pseudomonas florescence • Lime application • Fertilizer application • Feeding management • Releasing of fingerlings in fish ponds • Water sample analysis • Land preparation for paddy cum fish culture • Site selection for construction of fresh water fish pond • Breeding of common carp	08.03. 2019/1day 21.05. 2019/1day 30.07. 2019/1day 26.08. 2019/1day 27.08. 2019/1day 28.08. 2019/1day 29.08. 2019/1day 31.08. 2019/1day 16.09. 2019/1day 02.10.2019/1day													
1	Celebration of important days	World Environment Day, International Yoga Day, 150th Gandhi Jayanti, Mahilakisandiwas, World Food Day, World soil Day, Constitution Day National animal disease control programme , Mega Tree plantation campaign and farmer seminar , World food day, MahilaKisanDiwas, Swacchta Hi Seva,	05.06.2019/1day 21.06.2019/1day 02.10.2019/1day 15.10.2019/1day 16.10.2019/1day 26.11.2019/1day 05.11.2019/1day 1.09.2019/1day 17.10.2019/1day 11.09.2019to 02.10.2019 /4 weeks 16.10.2019/1day 05.12.2019/1day	14	0	0	0	400	900	1300	50	50	100	450	950	1400



		Fish cum Duck Culture Central Government Schemes and Programs in Agriculture and allied sectors Celebration of Kisan Diwas - National Farmers Day Innovative Egg Laying Cabin of Shri Wallamkumar Lyngrah, Progressive Farmer, Mawsiatkham Village, Meghalaya Basics of Integrated Pest Management (IPM) in crops production														
2	TV talk															
2	Training manual	Training Manual under Extension Discipline	1													
2	Soil health camp															
2	Awareness campaign (Kharif& Rabi)	Fall Army Worm Awareness Campaign, Rabi Campaign	30.05.2019/1day 12.06.2019/1day 26.06.2019/1day 1													80
2	Lecture delivered as resource person	Nursery Raising, Rejuvenation of citrus orchards, Scientific package of practices of common vegetables, Cultivation of fruit crops, Propagation of ornamental crops, Value addition, Storage processes, Cultivation	23/01.2019/1day 25.01.2019/1day 29.01.2019/1day 30.01.2019/1day 18.02.2019/1day 19.02.2019/1day 22.02.2019/1day 26.03.2019/1day 27.03.2019/1day 10.04.2019/1day 17.05.2019/1day	51	0	0	0	474	372	846	20	15	35	492	407	901

		practices of common ornamental plants, Double cropping in horticultural crops Entrereneurship, PPP, Project Management, Custo, Hiring Centres, etc	20.05.2019/1day 27.05.2019/1day 30.05.2019/1day 12.06.2019/1day 26.6.2019/1day 05.07.2019/1day 08.07. 2019/1day 22.01. 2019/1day 23.01. 2019/1day 25.01. 2019/1day 29.01. 2019/1day 30.01. 2019/1day 12.02.2019/1day 13.02. 2019/1day 19.02.2019/1day 14.03.2019/1day 02.05.2019/1day 12.06.2019/1day 20.06.2019/1day 25.07.2019/1day 25.07.2019/1day 05.09.2019/1day 31.10.2019/1day 21.11.2019/1day													
2	PRA	Benchmark sureveys etc		5	0	0	0	65	85	150	0	0	0	65	85	150
2	Farmer-Scientist interaction	Trainings, Method demonstrations, Diagnostic visits fall army worm beneficial soil micro organism,	22.01.2019/1day 23.01.2019/1day 25.01.2019/1day 29.01.2019/1day 30.01.2019/1day 18.02,2019/1day 19.02,2019/1day 02.05.2019/1day 03.05.2019/1day 17.05.2019/1day 20.05.2019/1day 27.05.2019/1day30.05.2019/1day 22.02,2019/1day	50	0	0	0	160	280	440	20	50	70	180	440	620

[illegible]

			05.12.2019/1day													
3	Soil test campaign															
3	MahilaMandal Convener meet															
3	Training/workshop attended	“Improved production technologies for doubling farmers’s income” at Almora, Uttrakhand, Interaction session at ATARI Zone VII chaired by Director ATARI in the presence of Minister of State for Agriculture and Farmer’s Welfare ,Shri. KailashChoudhary	03-07-11.2019 /4days 24.11.2019/1day	2	0	0	0	0	0	0	0	0	0	0	0	0
3	Tree Plantation	‘Mega Tree Plantation Campaign’ at Pashang	17.09.2019/1day	1				20	25	45				20	25	45
3	Programme	Swacchta Hi Seva	11.09,2019 to 02.10,2019(4weeks)	1				22	28	50				22	28	50
3	Lecture delivered as resource person	Role of bio pesticides and their uses in management of Insect pest and diseases cole crops, Scientific bee keeping, Description, edibles types, natural growth aspects and climatic requirement commercial cultivation of oyster mushroom, Low cost production of oyster mushroom, Hands on practice: low cost production of	17.01.2019/1day 22.01.2019/1day 18.01.2019/1day 31.01.2019/1day 19.02.2019/1day 9.04.2019/1day 10.04.2019/1day 02.05.2019/1day 03.05.2019/1day 09.05.2019/1day 14.05.2019/1day 20.05.2019/1day 21.05.2019/1day 24.06.2019/1day 25.06.2019/1day	19				89	295	384	30	50	80	119	345	464

	oyster mushroom, Role of biopesticides for management of insect pests and diseases cole crops ,Application methods of Trichodermaharzianum and Beauveriabassiana, Role of biopesticides for management of insect pests and diseases in potato Integrated pest Management in citrus orchard, Insect pest management in cabbage and broccoli,	05.07.2019/1day 22.10.2019/1day 22.11.2019/1day 06.12.2019/1day														
Grand Total			501	14	0	0	4793	4847	7973	336	436	772	3459	5397	9385	

9. Production and supply of Technological products during

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	-	-	-	-	-	-	-
OILSEEDS	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-
VEGETABLES	Potato	KufriGirdhari and KufriHimalini	40 q	120,000.00		2	2
TOTAL	-	-	40 q	120,000.00		2	2



B. SUMMARY of Production and supply of Seed Materials

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries		
					General	SC/ST	Total
1	CEREALS	-	-	-	-	-	-
2	OILSEEDS	-	-	-	-	-	-
3	PULSES	-	-	-	-	-	-
4	VEGETABLES	40	20	120000	-	2	2
5	FLOWER CROPS	-	-	-	-	-	-
6	OTHERS	-	-	-	-	-	-
TOTAL		40	20	120000		2	2

C. Production and supply of Planting Materials(Nos. in No.) during

Major group/class	Crop	Variety	Quantity (In quintal) produced	Quantity (In No.) supplied	Value (Rs.) produced	Number of recipient/ beneficiaries		
						General	SC/ST	Total
Fruits	-	-	-	-	-	-	-	-
Spices	-	-	-	-	-	-	-	-
Vegetables	Onion	ArkaKirthiman	1000 nos.	500 nos	-	-	1	1
	Tomato	ArkaRakshak	1000 nos.		-	-		
	Chilli	ArkaHarita	500 nos	500 nos	-	-	1	1
	Mustard	Local	1500 nos.	-	-	-	-	-
Flowers	Gladiolus	ArkaAmar,ArkaTilak, ArkaKesar, ArkaAyush	100 nos. corms	-	-	-	-	-
	Tuberose	ArkaPrajwal	30 nos. bulbs	-	-	-	-	-
TOTAL	-	-	-	1000	-	-	2	2

D. Production of Bio-Products during

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

BIO PESTICIDES	-	-	-	-	-	-	-	-
LIVESTOCK STRAINS/ FINGERLINGS (NOS. IN LAKH)		Common carp <i>varcommunis</i>						

10. Literature Developed/Published (with full title, author & reference) during

(A) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
Research papers				
Training manuals	1. Ka Kot jingbatai shaphang ki Mat kumno ban Seng ia ki SHG bad banpyn arshah ia ka jingioh u Nongrep 2. Ka Training Manual jog ka Riu Dohkha 3. Ka Kot training ban iada ia ki khniang bad jingpag ha ki jhur 4. Ka lot training ban rep jhur bad ki soh	S. Marbaniang, SMS Extension S. Malngiang, SMS Fisheries B.Chyne, SMS Plant Protection A. Lyngdoh, SMS Agronomy	500	200
Technical Report	-	-	-	-
Book/ Book Chapter	-	-	-	-
Popular articles	-	-	-	-
Technical bulletins	-	-	-	-
Extension bulletins	-	-	-	-
Newsletter	KVK East Khasi Hills Newsletter 2018-19	-	500	500
Conference/ workshop proceedings	-	-	-	-
Leaflets/folders	Vermicomposting( Ka ba shna Sbohwieh) .Fish cum Pig Culture	A. Lyngdoh, SMS Agronomy S. Malngiang, SMS Fisheries	500	500
e-publications				

Any other (Pl. specify)	-	-	-	-
TOTAL	-	-	1500	1200

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

11. Success stories/Case studies, if any

11.1. Field activities

- i. Number of villages adopted: 8
- ii. No. of farm families selected: 500
- iii. No. of survey/PRA conducted: 6

12. Activities of Soil and Water Testing

Status of establishment of Lab : excellent

- 1. Year of establishment : 2014
- 2. List of equipments purchased with amount : Mridaparikshak Mini Lab established

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	-	Mridaparikshak	Nagarjuna	2	1,72,000

12.1. Details of samples analyzed (2018-19) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount ( In Rupees) realized
Soil Samples	50	300	3	
Water Samples	-	-	-	

Plant Samples	-	-	-	
Petiole Samples	-	-	-	
Total	50	300	3	

- a. Details of Soil Health Cards (SHCs)
- b. No. of SHCs prepared: 300
- c. No. of farmers to whom SHCs were distributed:300
- d. Name of the Major and Minor nutrients analysed: N,P,K, Cu, Zn, Bo, Fe, P, Organic, C,S, EC,PH
- e. No. of villages covered: 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	33	170	-	-	-	-	-	-	2	100	-	-	35	270
Voice only	45	150	-	-	-	-	-	-			-	-	45	150
Total	78	320	0	0	0	0	0	0	2	100	-	-	80	420

14. Contingency planning for

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
Drought	Introduction of new variety or crop	5		350	350
Flood	Introduction of new variety or crop	5		350	350

Drought	Introduction of Resource Conservation Technologies	5		350	350
Cyclone	Distribution of seeds and planting materials	5		350	
Drought	Distribution of seeds and planting materials	5		350	350
Flood	Distribution of seeds and planting materials	5		350	350

14. Impact of KVK activities

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Low cost cultivation of oyster mushroom	200	40%		Rs.63,500/ unit

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

15. LINKAGES ESTABLISHED

15.1 Functional linkage with different organizations established during

Name of organization	Nature of linkage
1. ATMA	Training and method demonstration
2. MAMETI	Training and method demonstration
3. SIRD	Training and method demonstration
4. Social Service centre(SSC)	Training and method demonstration
5. DTO	Training and method demonstration
6. BATC	Training and method demonstration
7. PNB-RSETI	Training and method demonstration

8. SPVS,Lafarge	Training and method demonstration
9. AROHfoundation	Training and method demonstration
10. NESFAS	Training and method demonstration
11. Extension Education Institute, Jorhat	Trainers for OFF campus training of Extension Personnel
12. Meghalaya State Fisheries Research and Training Institute	Training and method demonstration

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

15.2.    **Details of linkage with ATMA**

a) **Is ATMA implemented in your district : Yes**

Sl. No.	Programme	Nature of linkage	Remarks
1	Frontline demonstration	Training and demonstrations	-

16.      **PERFORMANCE OF INFRASTRUCTURE IN KVK DURING**

16.1    **Performance of demonstration units**

Sl. No.	Demo Unit (Name and No.)	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety/ species/ breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Mushroom	2019		Oyster		115kg	9000	173330	
2									

17. **Proceeding of SAC Meeting**

**Proceedings of the Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, East Khasi Hills District held on 28<sup>th</sup> January, 2019.**

The Scientific Advisory Committee Meeting was chaired by Shri. R. Langstieh, Director of Agriculture (R&T), Government of Meghalaya, who welcomed all the members present and appreciated them for dedicating their precious time to attend the meeting. The following were the members present in the house

Sl. No.	Name	Designation	Signature
1.	Shri. R. Langstieh	Director (R&T), Directorate of Agriculture, Govt. Of Meghalaya	Sd/-
2.	Smti. B. Wahlang	Senior Scientist and Head, KVK, E.K.H. District	Sd/-
3.	Smti. Divya Parisa	Scientist, ICAR-ATARI, Umiam	Sd/-
4.	Shri. A. Lamare	D.S.W.C.O, Plantation Crops, Shillong	Sd/-
5.	Smti. S. Kharपुरi	D.A.O Shillong	Sd/-
6.	Smti. P. Kharkongor	S.D.A.O Shillong	Sd/-
7.	Smti. A.D. Nongbri	ADH, East Khasi Hills, Shillong	Sd/-
8.	Dr (Mrs.) L. Pale	A.H& Vety. Officer Livestock Inspector, Shillong	Sd/-
9.	Shri. P.R. Lyngdoh	Fishery Officer	
10.	Shri. W.L. Narry	SDO(WR) Shillong	Sd/-
11.	Smti. S. L. Dkhar	Project Director, ATMA, East Khasi Hills District	Sd/-
12.	Smti. R.M.L. Marbaniang	Programme Executive, AIR Shillong	Sd/-
13.	Shri. Nicholas J.J. Nongkhlaw	Programme Executive, Doordarshan Shillong	Sd/-
14.	Shri. Anikhet Chettri	Programme Assistant, DDK, Shillong	Sd/-
15.	Shri. S. Marbaniang	SMS, Extension Education, KVK, E.K.H. District	
16.	Smti. A. Lyngdoh	SMS, Horticulture, KVK, E.K.H. District	Sd/-
17.	Smti. B. Chyne	SMS, Plant Protection, KVK, E.K.H. District	Sd/-
18.	Shri S. Malngiang	SMS, Fisheries, KVK, E.K.H. District	Sd/-
19.	Shri. B. Syiemlieh	Farm Manager, KVK, E.K.H. District	Sd/-
20.	Smti. A. Lyngdoh	SMS, Agronomy, KVK, E.K.H. District	Sd/-
21.	Shri. K.A. Muktieh	Programme Assistant, Computer, KVK, E.K.H. District	Sd/-
22.	Smti. T. Thabah	Progressive Farmer, Smit village	Sd/-
23.	Shri K.W. Lyngrah	Progressive Farmer, Mawsiatkhniam village	Sd/-

At the start of the meeting, the chairperson requested Smti. B. Wahlang, Senior Scientist and Head, KVK, E.K.H. District to give the welcome address to the members present in the house. Further the chairperson requested Shri. S. Marbaniang, SMS, Extension Education, KVK, E.K.H. to read out the minutes of the proceedings of the last SAC held on the 23<sup>rd</sup> January, 2018 which was accepted by all the members present in the meeting. The suggestions given by the members present in the house were as follows:

1. Shri. R. Langsieh, Joint Director (R&T):

(a) Suggested SMS (Plant Protection) to tie up with State Biological Control Laboratory for procurement of *Trichoderma viridae*, *T. harzianum* and supplying to the farmers. He also suggested to collaborate with the Ginger Development farm for the procurement of ginger rhizomes. Enquired from Shri. W. Lyngrah, farmer from Mawsiatkhniam, about the performance of ginger cultivation at his village and encouraged him to study the performance of ginger grown by him under the guidance of KVK scientist and the crop grown through their own knowledge. Shri.

W. Lyngrah informed the chairman that he has adopted the technology disseminated by the office of the KVK and has stopped the practice of removal of mother rhizome. He stated that this practice has benefitted him a lot as now he has observed that there is less incidence of rhizome rot.

(b) Enquired about the concept of Rural composting from SMS (Agronomy) and was given a satisfactory reply by the said SMS. SMS (Agronomy) stated that the composting will involve the use of wastes from the kitchen and vermicomposting, providing vermibeds to farmers interested in conducting the trials. He further enquired if Panchakavya and Jeevamrit were disseminated by the KVK Scientists to the farmers. SMS (Extension Education) informed him that since they were not proven technologies of ICAR, the KVK Scientists cannot disseminate these technologies.

(c) Advised SMS(Fisheries) to tie up with Fisheries department in dissemination of the technologies mentioned in the OFT's and FLD's. In addition he suggested SMS (Fisheries) to take up Rice-Fish culture in the warmer areas of the district.

(d) Enquired about Kisan Melas conducted by KVK, EKH. With regard to his query, SMS(Extension Education) explained that the KVK conducts such melas and is linking up with ATMA for similar programmes. Smti. S.L. Dkhar, Project Director, ATMA also confirmed the same.

(e) In conclusion, Shri. R.Langsieh, Joint Director (R&T), advised the office of the KVK to conduct demonstrations on Panchakavya and Jeevamrit. He suggested the popularisation of Tree tomato by the office of the KVK and to take up issues related to pests and diseases of fruit crops.

## 2. Smti. Divya Parisa, Scientist, ICAR:

(a) Advised SMS (Agronomy) to introduce 2-3 new varieties of babycorn for comparison between the varieties and to also take a local check for the demonstration. She further advised to expand the marketing of babycorn by linking the farmers with local restaurants. Farm Manager replied that in the past KVK, EKH had approached the local restaurants for the same and it was felt that there was a need to process the babycorn to avail a better and wider market.

(b) Advised the use of Nadia variety of Ginger and to contact Kerela Agriculture University for supply of ginger rhizomes.

(c) Suggested to take up trials on sweetcorn. With regard to this, Farm manager replied that KVK, EKH had already done trials on sweetcorn in the past.

(d) Advised SMS (Plant Protection) to take up Button Mushroom in her trials and to go for multitier system of cultivation. SMS (Plant Protection) explained that she gives training and demonstrations on Button Mushroom however in the current situation it is difficult to get a steady supply of spawns of Button Mushroom for conducting trials.

(e) Enquired if there are any external projects that are being implemented by the office of the KVK. SMS (Fisheries) said that in the previous year he had implemented training Projects/ Demonstrations sponsored by NFDB. Also, SASMIRA in collaboration with the office of the KVK have provided shadenets, vermicompost units etc. to selected farmers of East Khasi Hills district. SMS (Horticulture) also informed Smti. Divya Parisa that KVK, EKH had sent a proposal on Hydroponics in the past few months however till date the funds have not been sanctioned.

(f) Enquired about the planting time of Tomato var. Pusa Rohini. SMS (Horticulture) replied that the nursery raising for tomato starts in the month of March.

(a) Suggested to incorporate No. of days to maturity/crop duration for the trials on carrot and cabbage. She furthermore suggested to use a check variety for both. This was duly noted by SMS(Horticulture).

(b) Enquired about the pests of cabbage. SMS (Plant Protection) gave a satisfactory reply.



(c) Suggested to take up fruit crops as part of the trials of KVK. SMS (Horticulture) and SMS (Plant Protection) informed Divya Ma'am that they have been giving trainings on various fruit crops, training and pruning and also done method demonstrations on Citrus Rejuvenation in few villages of East Khasi Hills.

3. Shri. P.R. Lyngdoh, Fishery Officer, enquired about the stocking ratio of fishes in Rice cum Fish culture practice. This enquiry was met with a satisfactory answer from SMS (Fisheries).

4. Shri. A. Lamare, D.S.W.C.O, Plantation Crops, suggested the collaboration of Soil department with KVK for improved agricultural technologies.

5. Smti. T. Thabah, farmer (Smit village) voiced her problems concerning the performance of potato tubers. Shri. R.Langsieh, Joint Director (R&T) explained to her that the performance of potato tubers will decline after 3-4 years due to degeneration.

6. W. Lyngrah, farmer from Mawsiatkham, shared with the house that in the past he cultivated ginger variety Suprabha and found that it was a good variety and was thriving at Mawsiatkham village. However this variety was discontinued and he had requested the house to help in procuring the ginger variety in the near future.

The meeting concluded with a formal vote of thanks from Shri. S. Malngiang, SMS, Fisheries, KVK, E.K.H. District to all the members present in the house.

Sr. Scientist cum Head

KVK, East Khasi Hills