PROFORMA FOR ANNUAL REPORT OF KVKS, (Jan-Dec 2020)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra (KVK), Khawzawl, PO- Khawzawl, Dist.-Champhai (MIZORAM)-796310	9436190701	NIL	kvkkhawzawl@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture (R&E), Aizawl, Mizoram- 796 001	9436190701	0389-2315784	mizagri@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Henry Saplalrinliana	KVK, Complex, Kawnzar Veng, Khawzawl	9436190701	henry_sapa@yahoo.com

1.4. Year of sanction: 2004

1.5. Staff Position **(As on 31st March, 2020)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Sr Scientist & Head	Dr. Henry Saplalrinliana	Sr Scientist & Head	Soil Science	15,600-39,100+8,000	82,200	04.03.19	Permanent	ST
2	SMS	Dr. Malsawmkimi	SMS	Horticulture	15,600-39,100+5,400	73200	03.06.09	Permanent	ST
3	SMS	Syed Khalidduddin Ahmed (study leave)	SMS	Animal Science	15,600-39,100+5,400	75400	26.04.08	Permanent	GENERAL
4	SMS	F.Zoramthari	SMS	Plant Protection	15,600-39,100+5,400	73200	06.06.09	Permanent	ST
5	SMS	Dr. Om.Prakash	SMS	Agronomy	15,600-39,100+5,400	73200	16.06.09	Permanent	General
6	SMS	Israel Lalremruata	SMS	Agro Forestry	15,600-39,100+5,400	73200	03.06.09	Permanent	ST
7	SMS	R.Vanlalduati	SMS	Soil Science	15,600-39,100+5,400	67000	12.03.12	Permanent	ST
8	Farm Manager	PrakashThapa	Farm Manager	M.Sc (Horti.)	9,300-34,800+4200	52,000	21.04.08	Permanent	GENERAL
9	Prog Asst (Computer/IT)	Samson Sairengpuia Sailo	Prog Asst (Computer/IT)	Computer/IT	9,300-34,800+4200	52,000	22.04.08	Permanent	ST
10	Prog Asst (Home Science)	Lalhruaitluangi	Prog Asst (Home Science)	Home Science	9,300-34,800+4200	52,000	1.07.08	Permanent	ST
11	Assistant	K. Vanlalhmangaihi	Assistant	M.Com	9,300-34,800+4200	52,000	29.05.08	Permanent	ST
12	Jr.Stenographer cum Computer Operator	Crusade Thangpuii	Jr. Stenographer cum Computer Operator	B.A	5,200-20,200+2,400	35300	29.02.08	Permanent	ST
13	Driver cum Mechanic	Lalnuntluanga	Driver cum Mechanic	-	5,200-20,200+1,900	29300	29.02.08	Permanent	ST
14	Driver cum Mechanic	R.Dengliana	Driver cum Mechanic	-	5,200-20,200+1,900	29300	29.02.08	Permanent	ST
15	Skill Supporting staff	Vanlalvenhima	Skill Supporting staff	-	4,440-7,440+1,800	24200	24.07.08	Permanent	ST
16	Skill Supporting staff	Vacant	-	-	-	-	-	-	-

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 12.774

b. Total cultivable land with KVK (in ha) : 8.464

c. Total cultivated land (in ha) : 4.217

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.31
2.	Under Demonstration Units (pl. specify the name) i. Instructional Farm ii. Vermi Compost Unit iii. Poultry Unit iv. Azolla Unit	 i. 11.464 ii. 0.0045 iii. 0.0040 iv. 0.0015
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately) i. Cereals ii. Pulses iii. Oil Seeds	 i. 0.6 ii. 0.8 iii. 0.3
4.	Under vegetables (Pl. specify separately) i. Brinjal ii. Pumpkin iii. Bottlegourd iv. Ladies finger v. Chilli vi. Cucumber vii. F.Bean viii. Zucchini	 i. 0.04 ii. 0.018 iii. 0.015 iv. 0.04 v. 0.06 vi. 0.002 vii. 0.04 viii. 0.002
5.	Orchard/Agro-forestry	1.3
6.	Others (specify) : Indigenous Nutritional garden	1.0

1.7. Infrastructural Development:

A) Buildings

S.No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2007	-	-	-	-	Completed
2.	Farmers Hostel	ICAR	2009	-	-	-	-	Need repair
3.	Staff Quarters (6)	ICAR	2007	-	-	-	-	Completed
4.	Demonstration Units(2)	ICAR	2007	-	-	-	-	Completed
5	Fencing	ICAR	2009	-	-	-	-	Need repair

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Gypsy	MZ-O1 D 4086	-	-	-	Processed for auction
	MZ-O1 8633	-	-	-	Processed for auction
Tractor	MZ-01 D 2246	-	-	-	Major repair required
	MZ-01P0211	2016	-	-	Running condition
Bolero	MZ-01 N 9053	2018	-	-	Running condition

C) Equipments & AV Aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD projector	Sept,2008	-	Replacement required
Xerox machine	Sept,2011	-	Good

Computer	Sept,2008/2011	-	Need upgradation
Seed analyzer	Sept,2008	-	NOT WORKING
Refrigerator	Sept,2008	-	Good
BOD Incubator	Sept,2008	-	NOT WORKING
Hot Air Oven	Sept,2008	-	NOT WORKING
Grinder	Sept,2008	-	Good
Laptop	Sept,2008	-	Good
T.V.	Sept,2008	-	Good
A.C.	Sept,2008	-	NOT WORKING
Water Pump (5 hp)	2008	-	Good
Paddy Thresher	2009	-	Good
Power Tiller (Mitshubishi Shakti)	2008	-	Good
Power Tiller (Greaves.GS15DILS)	2014	-	Good
Solar Dryer	2012	-	NEED REPAIR
Chaff Cutter	2014	-	Good
Mini Rice Mill cum Oil Expeller	2015	-	Good
Mini Dal Mill	2012	-	Good
Rice Mill(Polisher + winnower)	2017	-	Good

1.8. A). Details SAC meeting* conducted in 2018-19

Date	**Name and Designation of Participants**	**Salient Recommendations**	**Action taken on last SAC recommendation**
20 Nov 2020	1. Director of Agriculture (R&E), Aizawl, Mizoram. 2. Pesticide Analyst , Directorate of Agriculture (R&E),Aizawl, Mizoram. 3. Representative from Agriculture Department. 4. Representative from Horticulture Department. 5. Representative from Soil Department. 6. Representative from Forest Department. 7. Representative from Fisheries Department. 8. Representative from Veterinary Department. 9. Representative from ATMA. 10. Doordarshan Kendra, Khawzawl. 11. Secretary, AMFU, Khawzawl 12. Editor, Siar news, Khawzawl. 13. President, Block Mizo Hmeichhe Insuihkhawm Pawl, Khawzawl.	The 10th Scientific Advisory Committee meeting of all KVK's under the host of Directorate of Agriculture(R&E), Mizoram was conducted on 20th November, 2020 at 10:30 AM through virtual meeting under the chairmanship of Dr. Saithantluanga, Director of Agriculture(R&E), Mizoram. Unlike previous year, the meeting was conducted through Webinar/ Virtual Meeting due to Covid-19 pandemic in the state. The meeting was attended by distinguish guests namely, Dr. A.K Singha, Principal Scientist & Incharge Director, ATARI, Umiam, Meghalaya, Dr. I. Shakuntala, Jt. Director of ICAR, Kolasib Centre, Mizoram, SAC members of all Agriculture & Horticulture District Officers, Divisional Forest Officers, representatives from AMFU, Officers from Dept of Agriculture(R&E), Sr. Scientist & Head and SMS's of each KVK.0 At the onset, the chairman welcomed and expressed his gratitude to all the participants for attending the programme. He requested Dr. Henry Saplalrinliana, Sr.Scientist & Head, KVK, Champhai to present Annual Progress Report of 2020, which was followed by powerpoint presentation of Annual Action Plan 2021 by the respective	All recommendations were accomplished

		SMS's of the district. The meeting was conducted smoothly with active participation from the members. The achievement made by the KVK during the current financial year was highly appreciated. After careful interactions and discussions, the Annual Action Plan 2021 was approved by the committee and encourage the KVK to face challenges in achieving their goals. The chairman deliberated his gratitude to all the members for their participation and thanked the KVK for their sincere presentation. The meeting concluded with encouragement to the KVK staff from the Chairman.	

**** 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.	Horticulture +Maize + Animal Husbandry- Highland (>1250m MSL)
2.	Jhum Paddy +Vegetable + Animal Husbandry- Midland (900- 1250 m MSL)
3.	Wetland Rice + Fish + Winter Vegetables - Low land (< 900 m MSL)

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

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

2.3 Soil type/s

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

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Jhum Paddy	4350	4431	0.982
2	Paddy (WRC)	3750	8148	0.460
3	Maize	1660	2345	0.708
4	Rice bean	83	104	0.80
5	Arhar	20	17	1.18
6	Field pea	295	425	0.694
7	Cow Pea	210	231	0.909
8	French Bean	193	401	0.481
9	Soyabean	205	196	1.05
10	Potato	205	2057	0.099
11	Onion	6	34	0.18
12	Brinjal	365	2355	0.154
13	Cauliflower	75	745	0.10
14	Pea	35	150	0.23
15	Carrot	55	393	0.14
16	Cabbage	175	2363	0.07
17	Tomato	31	292	0.11
18	Okra	279	1861.3	0.15
19	Capsicum	25	331.5	0.07
20	Broccoli	16	100.1	0.16
21	Ginger	1008	4969	0.20
22	Turmeric	555	2784	0.20
23	Bird Eye Chilly	1250	6875	0.18

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
Jan	9	18.7	8.4	76.5
Feb	21	20.5	10.1	74.1
Mar	43	24.4	13.5	68.4
Apr	96	26.2	15.7	79.4
May	186	26	16.6	78.3
Jun	416	24.4	17.7	88.4
Jul	358	24	18	82.5
Aug	370	23.8	17.9	81.6
Sep	285	23.7	17.4	79.9
Oct	214	23.2	15.9	77.1
Nov	47	21	12.6	74.7
Dec	17	19	9.3	64.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred	346	560 tons	1.6
Indigenous	6663	788 tons	0.12
Buffalo	3053	14 tons	0.0045
Sheep			
Crossbred			
Indigenous	712 & 115	3 tons	-
Goats	NA	NA	NA
Pigs	24186	437 tons	-
Crossbred	6051	-	-
Indigenous	NA	NA	NA
Rabbits	NA	NA	NA
Poultry			
Hens	NA	NA	NA
Desi	NA	NA	NA
Improved	NA	NA	NA
Ducks	NA	NA	NA
Turkey and others	NA	NA	NA

Category	Area	Production	Productivity
Fish	NA	NA	NA
Marine	NA	NA	NA
Inland	NA	NA	NA
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2020)

S. No.	Taluk/ Eleka	Block	Village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Khawz awl	Khawz awl	Khawz awl	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of IFS • Creating awareness for livestock management and feed and fodder production.
2.	Khawz awl	Khawz awl	Biate	Jhum paddy + Tea + Orange + Vegetables + Animal Husbandry	• Lack of knowledge on crop rotation • Lack of quality seed of different vegetables • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Creating awareness on crop rotation and integrated farming • Creating awareness for the use of quality seeds in different vegetables. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management and feed and fodder production
3	Khawz awl	Khawz awl	Chawn gtlai	WRC+Jhum Paddy Grapes + Ginger Passion fruit + Animal Husbandry	• Lack of Training and Pruning of Passion Fruit & Grapes • Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases.	• Cultivation practices of Grapes and Passion fruit • IDM on Ginger • INM & IPM • Creating awareness for livestock management and feed and fodder production • Training on Bee Keeping
4.	Khawz awl	Khawz awl	Kawlk ulh	Jhum paddy + Maize + Banana + Ginger + Animal Husbandry + orange	• Lack of awareness towards integrated farming. • Improper nutrient management. • Citrus declining. • Lack of Orchard management	• Creating awareness for adoption of integrated farming. • Rejuvenation of old citrus orchards. • Creating awareness for livestock management
5.	Khawz awl	Khawz awl	Dulte	Jhum paddy + Banana + Maize + Ginger + Vegetables	• Lack of Orchard management. • Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Orchard management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
6	Khawz awl	Khawz awl	Rabun g	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
7	Khawz awl	Khawz awl	Khawh ai	Jhum paddy + Maize + Ginger + Vegetables+ Citrus+Pineapple	• Lack of Orchard management. • Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	•Training on Orchard management. •Integrated nutrient & Pest management. •Creating awareness for adoption of integrated farming.
8	Champ hai	Champ hai	Champ hai	WRC + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery management in WRC. • Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
9	Champ hai	Champ hai	Zotlan g	WRC + Jhum paddy +Potato + Winter vegetables + Animal Husbandry	• INM • Infestation of insect pest and diseases. • Lack of awareness toward s IFS • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of IFS • Creating awareness for livestock management and feed and fodder production

10	Champhai	Champhai	Hmunhmeltha	Jhum paddy + Vegetables + Animal Husbandry	• Lack of knowledge on crop rotation • Lack of quality seed of different vegetables • Citrus declining • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Creating awareness on crop rotation and integrated farming • Creating awareness for the use of quality seeds in different vegetables. • Creating awareness for livestock management and feed and fodder production
11	Champhai	Champhai	Tuipui	WRC + Jhum paddy + Maize + Winter vegetables	• Improper nursery management in Vegetable • INM • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
12	Champhai	Khawbung	Khawbung	Jhum paddy + Maize + Winter vegetables + Animal Husbandry	• Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Piggery management
13	Champhai	Champhai	Hnahlan	Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries + Grapes	• Improper nutrient management , training & pruning in Grapes • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
14	Champhai	Khawbung	Khuangleng	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Nursery management & seed treatment • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
15	Champhai	Khawbung	Farkawn	Maize + Ginger + Vegetables+ Jhum paddy	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	•Integrated nutrient & Pest management. •Creating awareness for adoption of integrated farming.
16	Khawzawl	Khawzawl	Ngaizawl	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Nursery management • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
17	Khawzawl	Khawbung	Thekte	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Orchard management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
18	Champhai	Champhai	Ruantlang	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries + Grapes	• Improper nursery management in WRC. • INM • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & Training & pruning in Grapes • IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
19	Khawzawl	Khawzawl	Neihdawn	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery management in WRC & INM • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
20	Khawzawl	Khawzawl	Arro	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on Nursery management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.

21	Khawz awl	Khawz awl	Hmunc heng	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on nurserymanagement. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming.
22	Khawz awl	Ngopa	Ngopa	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries+Tea	• Improper nursery management in WRC. • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production. • Improper post harvest management in Tea	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production. • post harvest management in Tea
23	Khawz awl	Khawz awl	New Chalra ng	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming. • Soil & water conservation	• Training on nursery management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming. • Soil & water conservation
24	Khawz awl	Ngopa	Hliapp ui	Jhum paddy + Maize + Ginger + Vegetables	• Improper nutrient management & Nursery management of Onion & Garlic • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	• Training on nursery management. • Integrated nutrient & Pest management. • Creating awareness for adoption of integrated farming. • Soil & water conservation
25	Champ hai	Khawb ung	Bungz ung	Jhum paddy + Maize + Winter vegetables + Animal Husbandry	• Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Piggery management
26	Champ hai	Khawb ung	Bulfek zawl	Jhum paddy + Maize + Winter vegetables + Animal Husbandry	• Improper nutrient management • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • IFS • Piggery management
27	Khawz awl	Khawz awl	Tualte	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry and Fisheries	• Improper nursery & INM in Tomato • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
28	Khawz awl	Khawz awl	Sialha wk	Jhum paddy + Maize + Ginger + Vegetables+ Citrus+Pineapple	• Lack of Orchard management. • Improper nutrient management. • Lack of Disease and Pest management. • Lack of awareness towards integrated farming.	•Training on Orchard management. •Integrated nutrient & Pest management. •Creating awareness for adoption of integrated farming.
29	Khawz awl	Khawz awl	Tualpu i	WRC + Jhum paddy + Maize + Winter vegetables + Animal Husbandry	• Improper nursery & INM in Tomato • Infestation of insect pest and diseases. • Lack of awareness toward s integrated farming • Lack of knowledge and awareness on livestock management, feed and fodder production.	• Nursery management • INM & IPM • Creating awareness for adoption of integrated farming. • Creating awareness for livestock management and feed and fodder production.
30	Khawz awl	Khawz awl	Chalra ng	Jhum paddy + Maize + Ginger + Vegetables+ Citrus+Pineapple	• Lack of Orchard management. • Lack of Nutrient, Disease and Pest management. • Lack of awareness towards IFS	•Training on Orchard management. •Integrated nutrient & Pest management. •Creating awareness for adoption of integrated farming.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2020

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	2	1	6	3	2	1	20	5
Plant Protection	2	2	6	6	2	2	20	20
Soil Science	2	1	6	3	2	2	20	20
Agro Forestry	2	2	6	6	2	1	10	5
Horticulture	2	2	6	6	2	2	25	25
Total	**10**	**8**	**30**	**24**	**10**	**8**	**95**	**75**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	0	0	0	0	0	0	0	0
Rural youth	0	0	0	0	0	0	0	0
Extn. Functionaries	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Seed Production (ton.)		Planting material (Nos. in lakh)	
Target	Achievement	Target	Achievement
350	570	25000	39000

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2020

S/N	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal evaluation	Field pea	Low income of the farmers from the traditional varieties	Varietal evaluation of Field Pea var: IPFD 10-12	Popularization Field pea var: Aman with Rhizobium inoculation	Scientific cultivation of Field pea	-	Field day, Diagnostic visit, Advisory services	Seeds & Fertilizer
2	IPM	Mizo Chilli	Low yield due to curling of leaf and stunted growth of the plants.	IPM of White Fly(Bemesiatabaci) in MizoChilli (Capsicum frutescens L -		IPM of Tomato	-	Diagnostic visits, Training	Pesticides, Yellow sticky traps and seeds
3	IDM	Potato	Blighting of theplants,sometimes leading to death of the entire plants.	IDM ofLate blight (Phytophthorainfestans)of Potato varKufrimegha-		IPM of Potato	-	Diagnostic visits,Fieldday,Training	Seeds,,Fungicides,biologicalpestcides
4	Pest management	Maize			IPM of Fall Army Worm in Maize	IPM in Maizer	-	Diagnostic visits,Training	Pesticides and seeds
5	Pest management	Citrus			Management of Citrus Psylla (Diaphorinacitri) in Mandarin Orange	IPM in Citrus	-	Diagnostic visits,Training,	Pasticide

6	INM	Potato	Potato production not reaching the national average due to unscientific nutrient management	Integrated Nutrient Management in Potato		1)INM in Potato 2)Methods of fertilizer application	-	Diagnostic visits, Farmer Scientist interaction, Training & Filed Day	Seeds, Fertilizers
7	Nutrient Manage ment	Grapes	Low yield and poor quality of fruits	-	Potassium nutrition on yield & quality of Grapes	Nutrient management in Grapes	-	Diagnostic visits, Farmer Scientist interaction, Training & Field Day	Fertilizers
8	Soil health manage ment	French Bean	**L**ow productivity due to inadequate availability of nutrients		Popularization of Bio-fertilizers on growth & yield of French Bean	Importance & uses of biofertilizers and its application	-	Field visit, Training, Field day	Bio fertilizers, Seeds

3.1 Achievements on technologies assessed and refined during 2020

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
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management					1					1
Integrated Disease Management									1	1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL			1		1				1	3

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	0	0	0	0	0	0	0	0	0	0
Seed / Plant production	0	0	0	0	0	0	0	0	0	0
Weed Management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Integrated Farming System	0	0	0	0	0	0	0	0	0	0
Mushroom cultivation	0	0	0	0	0	0	0	0	0	0
Drudgery reduction	0	0	0	0	0	0	0	0	0	0
Farm machineries	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Resource conservation technology	0	0	0	0	0	0	0	0	0	0
Small Scale income generating enterprises	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds	0	0	0	0	0	0	0	0
Nutrition Management	0	0	0	0	0	0	0	0
Disease of Management	0	0	0	0	0	0	0	0
Value Addition	0	0	0	0	0	0	0	0
Production and Management	0	0	0	0	0	0	0	0
Feed and Fodder	0	0	0	0	0	0	0	0
Small Scale income generating enterprises	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds	0	0	0	0	0	0	0	0
Nutrition Management	0	0	0	0	0	0	0	0
Disease of Management	0	0	0	0	0	0	0	0
Value Addition	0	0	0	0	0	0	0	0
Production and Management	0	0	0	0	0	0	0	0
Feed and Fodder	0	0	0	0	0	0	0	0
Small Scale income generating enterprises	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0

A.5. 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	Varietal evaluation of Field Pea var: IPFD 10-12	Low income of the farmers from the traditional varieties	Technology Option -1: *IPFD 10-12* Farmers Practice (var: Rachna)	Field Pea	3	Yield Net Return B:C Ratio	Crop yield was satisfactory and farmers are ready to cultivate it at larger scale	-	2.12 1.92
	Integrated Nutrient Management in Potato	Potato production not reaching the national average due to unscientific nutrient management.	**To1-**NPK:150:100:120 Kg/ha Vermicompost-2.5t/ha **TO2**-Farmer Practice(No treatment)	Potato	3	**TO-1** 1.Soil fertility status Nitrogen-193.9 Phosphorus-14.85 Potassium-140.91 2. Yield (q/ha)-185 **TO-2** 1.Soil fertility status Nitrogen-177.1 Phosphorus-12.22 Potassium-122.41 2. Yield (q/ha)-178	Proper Nutrient management influences high yield	Timely nutrient application and recommended dose of fertilizer application greatly influences crop performance and yield.	TO-1 TO-2-2.9
	IPM of White Fly(Bemesiatabaci) in MizoChilli (Capsicum frutescens	Low yield due to curling of leaf and stunted growth of the plants.	1) Yellow Sticky @ 4-5 trap/acre 2) Fenpropathrin 30% @ 100-136 in 300-400 L of water/acre 3) neem oil +garlic emulsion @ 2%	MizoChilli	3	**TO1-IPM** 1)No.of infested plant at 15 days interval (%) - 12% 2)Pest incidence (%)-15% 3)Disease incidence (%)-20% 3)Yield kg/ha-2500 **TO2-Farmers practice** 1)No.of infested plant at 15 days interval (%)-54% 2)Pest incidence (%)- 58% 3)Disease incidence (%)-45% 3)Yield kg/ha-1800			**TO1**-3.1 **TO2**-2.7
	IDM of Late Blight (Phytophthorainfestans) of Potato (varKufriMegha	Blighting of the plants,sometimes leading to death of the entire plants	1)Soil application – T. harzianum and Pseudomonas fluorescens 15 days before planting 2)Prophylactic spray – Cymoxil @ 1.5 gm/lt water twice at weekly before onset of disease	Potato	3	**TO1-IPM** 1)No.of infested plant at 15 days interval (%) - 12 % 2)Disease incidence (%)-30 % 3)Yield kg/ha-18100 kg/ha **TO2-Farmers practice**			**TO1**-2.7 **TO2**-2.3

			3)Curative spray with Cymoxil + Mancozeb @0.3%			1)No.of infested plant at 15 days interval (%)- 30 % 2)Disease incidence (%)- 67% 3)Yield kg/ha- 13000 kg/ha			
	Contour cropping of Arhar in ginger field for supplement of soil nutrient in *jhum* field	Poor nutrient management in *jhum* field	Contour cropping of Arhar(15cmx3m) and Ginger(30x30cm)	Arhar & Ginger	3	Soil fertility status(kg ha'1) TO1: Avl N-210, Avl P- 16.71, Avl K-152 T02: Avl N -183, Avl P- 12.12, Avl K -126 Yield/ha TO1 – 290q/ha TO2 – 279q/ha	Extra addition of soil nutrients which increase their crop yield	May be adoted at larger through FLD for better management of soil nutrients in jhum field	Tecnology : 2.02 Loal check: 1.88
2.	Modelling agroforestry system in jhum field for permanent agriculture	No scientific agroforestry model for converting jhum field to settled farming	(i) Two rows of banana & pineapple – 1.5x1.5m & 30x60cm (ii) Uncleared patch of 5-10m at regular interval (iii)Bee box – 7m apart (iv)Growing of flowering trees/shrubs along the periphery of the farm	Banana & Pineapple	3	On-going	-	-	-
1	Cultivation of kharif cabbage (Ryozeki) by using organic sources of nutrients	Lack of awareness on organic nutrient management	T1: Azotobacter and Phospho Solubilising Bacteria (PSB) @7.5g each per 100g of seeds. Seed treatment with Bio-fertilizers slurry for at least 1 hour before sowing T2: Farmers practice	Cabbage	3	T1: Number of wrapper leaves: 15 Weight:1.2kg Yield:235 T2: Number of wrapper leaves: 12 Weight:0.800 g Yield:190 qtl/ha	-	-	2.85 1.9

2	Evaluation of Onion var. NHRDF Red 4	Less known variety in the District	T1: NHRDF 4 T2: farmers variety	Onion	3	T1: Plant height: 43 cm Weight: 85 (g) Yield: 355 qtl/ha T2: Plant height: 40 cm Weight: 60 (g) Yield: 290 qtl/ha			2.8 2.3

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***

3.2 Achievements of Frontline Demonstrations during 2020

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

List of technologies demonstrated during previous years and popularized during 2017-18 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	Field Pea	Popularization Field pea var: Aman with Rhizobium inoculation	4	25	10
2	Maize	Integrated pest Management of Fall Army worm.	5	10	4
3	Citrus	Demonstration on Management of Citrus Psylla (*Diaphorina citri*) in Mandarin Orange	5	10	4
4	Pineapple	Pineapple based hedgerows farming system	3	5	5

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Grapes	Nutrient management	Potassium nutrition on yield and quality of grapes variety Bangalore Blue 400g K 2 O/vine	Kharif-2020	5	5	10	-	10	-	Rainfed	293	21.7	276
2	Maize	IPM of Fall Army Worm	1.Seed treatment with Cyantraniliprole 19.8% + Thiomethoxam 19.8% @ 4ml/1 kg 2.Spraying with NSKE 5% 1 week after planting. 3) Installation of Pheromone trap @ 4-5 traps/acre 4) ETL based spraying with Emamectin benzoate 5% SG @ 0.4 g/lt	May 2020-July 2020	4	4	10	10		Rainfed				
3	Citrus	Demonstration on Management of Citrus Psylla (Diaphorinacitri) in Mandarin Orange	Foliar application of novaluron 10EC @ 0.005% twice at 15 days interval during flushing period	February 2020 and September 2020	4	4	10	10			Rainfed	289.72.	15.61	134.23
4	Pineap ple & *Tephro sia candid a*	Integrated crop management	(i)Planting of Tephrosia candida @ 15cmx5m & Pineapple @30x60cm. (ii) Maintaining of Tephrosia candida 1m height above ground level.	Kharif- 2020	5	5	5	-	5	On-going	Rainfed	-	-	-
5.	Mandar in orange & *Tephro sia candid a*	Integrated crop management	(i) Planting of Tephrosia candida @15cmx5m & Pineapple @30x60cm. (ii) Maintaining of Tephrosia candida 1m height above ground level.	Kharif 2020	4	0	-	-	-	Due to Covid pandamic outbreak this FLD could not be taken up		-	-	-
6	Tomat o	Varietal evaluatio n	Popularisation of Tomato variety Arka Samrat	Kharif: 2020	6.75	7	15		15	-	Rainfed	236	2 6	19 8
7	Tomat o	Varietal evaluatio n	Popularization of Tomato variety Arka Abhed	Kharif: 2020	4.5	4.5	10		10	-	Rainfed	215	23	175

c. Performance of FLD on Crops during 2020

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Field pea	Integrated Crop Mngt.	5	21.25	16.20	18. 40	13. 30	38.35	21.25	16.20	35330	80410	45080	2.28	30450	50800	20350	1.67
2	Grapes	Nutrient mngt.	5	55	48	14.58	59	51	-	-	84,300	2,75,000	1,90,700	3.2	71,200	2,00,000	1,28,800	2.8
3	F.Bean	Soil management	3	55	49	12.24	58	53	-	-	79,200	2,32,000	152,800	2.9	69,300	1,80,000	1,10,700	2.5
4	Maize	IPM	4	36.4	31.3	16.2%	39.7	33.4	Pest Incidence – 18 %	Pest Incidence – 63 %	47262	99250	51988	2.1	41184	78250	37066	1.9
5	Citrus	Pest Management	4	102	79.5	28.3%	115	97	Pest Incidence – 12 %	Pest Incidence – 71 %	98960	357000	258040	3.6	82350	278250	195900	3.3
6	Pineapple & Tephrosia candida	Integrated crop management	5	On-going	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Mandarin orange & Tephrosia candida	Integrated crop management	4	This FLD could not be taken up due Covid outbreak	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Tomato	Varietal evaluative	7	355	210	59.5	370	330			125625	603000	477375	4.8	115862	336000	220138	2.9
9	Tomato	Varietal evaluation	4.5	410	355	15.49	420	398			135238	710000	574762	5.25	125625	603000	477375	4.8

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	1	4.8.20	-	11	11	
		2	9.8.2020		30	30	30
2	Farmers Training	2	11.3.2020/16.3.2020		40	40	40
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**5**			**81**	**81**	**70**

e. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

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

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC **	GR **	NR **	BCR**	GC	GR	NR	BCR	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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

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

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

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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

(iv)Other enterprises

Sl. No.	Category / Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0		0	0
0	0	0	0	0	0	0	0	0		0	0

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR
1	Tomato	Arka samrat	7	15	335	210	59.5	370	330	125625	603000	477375	4.8	115862	336000	220138	2.9
2	Tomato	Arka Abhed	4.5	10	410	335	22.3	420	3398	135238	710000	574762	5.25	125625	603000	477375	4.8

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

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

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

3.3. Achievements on Training during 2020

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

Thematic area	No. of Trainings (Courses)			Participants																			
				General						SC/ST						Total						Grand Total (x + y)
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management	2	-	2	-	-	-	-	-	-	20	-	10	-	30		20	-	10	-	30		30
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and																						

high value crops																						
Off-season vegetables	2(4)		2(4)							30		10		40		30		10		40		40
Nursery raising	1(2)		1(2)							15		5		20		15		5		20		20
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit		1(2)	1(2)								15		5		20		15		5		20	20
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of																						

potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	1	1	2	-	-	-	-	-	-	14	13	7	19	21	32	14	13	7	19	21	32	53
Soil and Water Conservation	2			-	-	-	-	-	-	18	-	16	-	34	-	18	-	16	-	34	-	34
Integrated Nutrient	-	3	3	-	-	-	-	-	-	-	74	-	82	-	156	-	74	-	82	-	156	156

Management																						
Production and use of organic inputs		1	1	-	-	-	-	-	-	-	12	-	10	-	22	-	12	-	10	-	22	22
Management of Problematic soils		1	1	-	-	-	-	-	-	-	14	-	7	-	21	-	14	-	7	-	21	21
Micro nutrient deficiency in crops		1	1	-	-	-	-	-	-	-	10	-	15	-	25	-	10	-	15	-	25	25
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development																						

for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					
Storage loss minimization techniques																					
Value addition																					
Income generation activities for empowerment of rural Women																					
Location specific drudgery reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					

Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management	1	1	2	-	-	-	-	-	-	15	23	15	7	30	30	15	23	15	7	30	30	60
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																					
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater prawn																						
Breeding and culture of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						

Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production	1	1	2	-	-	-	-	-	-	23	17	12	20	35	37	23	17	12	20	35	37	72
Organic manures production																						
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						

Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					
Production technologies																					
Nursery management																					
Integrated Farming Systems	1	-	1							30	-	25	-	55	-	30	-	25	-	55	-	55
TOTAL																					

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

Thematic area	No. of Trainings (Courses)			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						

Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management	5	-	5	-	-	-	-	-	-	75	-	45	-	120	-	75	-	45	-	120		**120**
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
Off-season vegetables	2(4)		2(4)							60		30		90		60		30		90		90
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						

Layout and Management of Orchards																						
Cultivation of Fruit		1(2)	1(2)								40		20		60		40		20		60	60
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						

Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management																					
Soil and Water Conservation																					
Integrated Nutrient Management																					
Production and use of organic inputs																					
Management of Problematic soils																					
Micro nutrient deficiency in crops																					

Nutrient Use Efficiency																					
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management																					
Piggery Management																					
Rabbit Management																					
Disease Management																					
Feed management																					
Production of quality animal products																					
V Home Science/Women empowerment																					
Household food security by kitchen gardening and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					

Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						

Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	3	2	5							34	40	23	5	**57**	**45**	34	40	23	5	**57**	**45**	**102**
Integrated Disease Management	1	1	2							28		7		**35**		28		7		**35**		**35**
Bio-control of pests and diseases	1									15		10		**25**		15		10		**25**		**25**
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater prawn																						
Breeding and culture of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						

Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production	1	1	2	-	-	-	-	-	-	23	17	12	20	35	37	23	17	12	20	35	37	72
Organic manures production																						
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						

X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems	2	-	2								70	-	40	-	110	70	-	40	-	110	-	110
TOTAL																						

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production	1		1	-	-	-	-	-	-	5		15		20		5		15		20		20

Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming	1		1							15		5		20		15		5		20		20
Planting material production																						
Vermi-culture		1	1	-	-	-	-	-	-	-	35	-	25	-	60	-	35	-	25	-	60	60
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental																						

fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

3.3.4. Achievements on Training of Rural Youth in Off Campus including Sponsored Off Campus Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Trainings (Courses)			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	1	-	1	-	-	-	-	-	-	10	-	10	-	**20**	-	10	-	10	-	**20**	-	**20**

Integrated Farming	1		1							45		15		60		45		15		60		60
Planting material production	1(2)									10		10		20		10		10		20		20
Vermi-culture	1	-	1	-	-	-	-	-	-	22	-	13	-	55	-	22	-	13	-	55	-	55
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production		1(2)									10		10		20		10		10		20	20
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						

Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

C. Extension Personnel

3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

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

Protected cultivation technology	1(2)		1(2)							8		2		10		8		2		10		10
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers																						
Capacity building for ICT application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs		1	1	-	-	-	-	-	-	-	17	-	15	-	32	-	17	-	15	-	32	32
Gender mainstreaming through SHGs																						
3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)																						

Thematic area	No. of Trainings (Courses)			Participants																			Grand Total
	Off	Sp Off*	Total	General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
Productivity enhancement in field crops																							
Integrated Pest Management																							
Integrated Nutrient management																							
Rejuvenation of old orchards																							
Protected cultivation technology																							
Formation and Management of SHGs																							
Group Dynamics and farmers organization																							
Information networking among farmers																							
Capacity building for ICT application																							
Care and maintenance of farm machinery and implements																							
WTO and IPR issues																							
Management in farm animals																							
Livestock feed and fodder production																							

Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL																						

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

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	INM	INM in Potato	12-13.02.20	2	KVK	F&FW	-	-	-	22	13	34	22	13	34
	Nutrient management	Nutrient management in Grapes	11-12.03.20	2	KVK	F&FW	-	-	-	12	10	22	12	10	22
	Problematic	Problematic soil and its management for WRC	7-8.04.20	2	KVK	F&FW	-	-	-	17	10	27	17	10	27
PP	IPM	IPM in Paddy-Distribution of sprayer and caliberation of Sprayer	23.10.2020	1	KVK	F&FW				27	3	30	27	3	30

		(NCIPM)														
	IPM	Kitchen garden	17.9.2020	1	KVK	F&FW				15	15	30	15	15	30
	Organic pesticides	Training on Preparation of Organic Pesticides		1	KVK	RY				5	15	20	5	15	20
Horti	Off season vegetable cultivation	Production of tomato during kharif season	11.3.2020-13.3.2020	2	KVK Taining Hall	F&FW				15	-	5	15	5	20
	Off season vegetable cultivation	Production of tomato during kharif season	11.3.2020-16.3.2020	2	KVK Taining Hall	F&FW				15	-	5	15	5	20
	Nursery raising	Scientific management of vegetable nursery	4.6.2020	2	KVK training Hall	F&FW				15	-	5	15	5	20
	Cultivation of fruit	Scientific management of M. Orange	8.7.2020	2	KVK training Hall	F&FW				15	-	5	15	5	20

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	Organic farming	Promotion of organic farming	20-21.04.20	2	Tualte	F&FW	-	-	-	15	11	26	15	11	26
PP	IPM	IPM chilli	12/8/2020	1	Tuisenphai	F&FW				17	3	20	17	3	20
		IPM in Paddy-Distribution of sprayer and calibration of Sprayer (NCIPM)	15/10/2020	1	Phaisen	F&FW				25	-	25	25	-	25

		IPM in Paddy-Distribution of sprayer and caliberation of Sprayer (NCIPM)	27/10/2020	1	Tualte	F&FW				15	5	20	15	5	20
		IPM on Potato	24/9/2020	1	Chawngtlai	F&FW				14	3	17	14	3	17
		IPM on Potato	28/9/2020	1	Tuipui	F&FW				3	17	20	3	17	20
	IDM	IDM of Citrus	30/10/2020	1	Lawibual	F&FW				13	7	20	13	7	20
		Disease free and healthy Seed selection	17/6/2020	1	Tualte	F&FW				15	-	15	15	-	15
	Organic pesticides	Knowledge Homestead	14/10/2020	1	Tualte	F&FW				15	10	25	15	10	25
		Knowledge Homestead	28/10/2020	1	Tualte	RY				10	10	20	10	10	20
Horti	Off season vegetables	Cultivation of tomato during Kharif season	17.6.2020-18.6.2020	2	New Chalrang	F&FW				30	15	45			45
Horti	Off season vegetables	Cultivation of tomato during Kharif season	27.6.20228.6.2020	2	Biate	F&FW				30	15	45			45
Horti	Cultivation of fruit	Scientific management of M. Orange cultivation	29.6.2020-31.6.2020	2	New Chalrang	F&FW				40	20	60			60

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days)	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
	3-7.03.20	5	Vermicomposting	Vermicomposting	-	-	-	7	8	15	7	8	15	-	-	-	-	MANAGE Rs 42000/-
	11-15.05.20	5	Soil conservation	Soil conservation technologies	-	-	-	10	5	15	10	5	15	-	-	-	-	MANAGE Rs 42000/-
Planting material	5.7.202-7.7.2020	3	Planting material production					10	10	20	10	10	20					-
Fruit	14.8.2020-	3	Scientific management of					10	10	20	10	10	20					ATMA

cultivation	17.8.2020		M. Orange														

*training title should specify the major technology /skill transferred

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

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From- To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
Off and on	F and FW	15/10/2020 23.10.2020 27/10/2020	3	Plant Protection	Paddy	IPM in Paddy-Distribution of sprayer and caliberation of Sprayer (NCIPM)				67	8	75	67	8	75	NCIPM	1,00,000/-
ON	F/FW	16.3.2020-17.3.2020	2	Horticulture	Off season vegetable cultivation	Cultivation of Tomato during Kharif season				15	5	20	15	5	20	ATMA	12000
OFF	Rural Youth	14.10.2020-17.10.2020	3	Horticulture	Fruit cultivation	Scientific management of M. orange				10	10	20	10	10	20	ATMA	12000
Total										**92**	**23**	**115**	**92**	**23**	**115**		

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2020

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**															
2.	Diagnostic visit			**62**				**120**	**70**	**190**				**120**	**70**	**190**
3.	Field day			**4**				**55**	**25**	**80**				**55**	**25**	**80**
4.	Group Discussion			**6**				**17**	**13**	**30**				**17**	**13**	**30**
5.	Kishan Gosthi															
	Kishan Mela															
6.	Film show															
7.	SHG formation															
8.	Exhibition															
9.	Scientists visit to farmers fields			21												
10.	Plant/ Animal Health camp															

11.	Farm science club																
12.	Ex-trainee Sammelan																
13.	Farmers seminar/ workshop																
14.	Method demonstration																
15.	Celebration of important days			6				60	60	120				60	60	120	
16.	Exposure visits																
17.	Electronic media (CD/DVD)																
18.	Extension literature																
19.	Newspaper coverage																
20.	Popular articles																
21.	Radio talk																
22.	TV talk																
23.	Training manual																
24.	Soil health camp																
25.	Awareness camp																
26.	Lecture delivered as resource person																
27.	PRA																
28.	Farmer-Scientist interaction																
29.	Soil test campaign																
30.	Mahila Mandal Convener meet																
31.	Any other (Please specify)																
32.																	
Grand Total				**99**													

3.5 Production and supply of Technological products during 2020

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
					M	F	M	F	
CEREALS	Rice	Manipur	10	50,000	-	-	18	7	25
OILSEEDS									
PULSES	Garden pea	AP-3	1.5	18,000	-	-	3	2	5

VEGETABLES									
FLOWER CROPS									
OTHERS (Specify)									

A1. SUMMARY of Production and supply of Seed Materials during 2020

Sl. No.	Major group/class	Quantity (q) produced	Quantity (q) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
					M	F	M	F	
1	CEREALS	10	10	50,000	-	-	18	7	25
2	OILSEEDS								
3	PULSES	1.5	1.5	18,000	-	-	3	2	5
4	VEGETABLES								
5	FLOWER CROPS								
6	OTHERS								
TOTAL		**2.5**	**2.5**	**68000**			**21**	**9**	**30**

B. Production and supply of Planting Materials (Nos. in No.) during 2020

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) suppliedced	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
						General		SC/ST		Grand Total
						M	F	M	F	
Fruits										
Spices										

Ornamental Plants										
VEGETABLES	**Tomato**	**Arka Samrat**	**15000**	**15000**	**15000**	**40**				**40**
	Onion	**NHRDF red**	**15000**	**15000**	**7500**	**30**				**30**
	Cabbage	**Ryozeki**	**5000**	**5000**	**5000**	**30**				**30**
Forest Spp.										
Plantation crops	**Tree bean**	**Local**	**4000**	**4000**	**40000**	**20**				**20**
	Drumstick	**PKM-1**	**6000**	**6000**	**60000**	**30**				**30**
Medicinal plants										
OTHERS (Pl. Specify)										

C. Production of Bio-Products during 2020

Major group/class	**Product Name**	**Species**	**produced Quantity**		**Value (Rs.)**	**Number of Recipient /beneficiaries**				
			No	**(qt)**		**General**		**SC/ST**		**Grand Total**
						M	**F**	**M**	**F**	
BIOAGENTS										
BIOFERTILIZERS										
1	Vermicompost	*Eudrilus eugeniae*	2500 kg	-	25000	-	-	15	11	26
2	Azolla	*Azolla caroliana*	300	-	300	-	-	20	-	10

3										
4										
BIO PESTICIDES										
1										
2										
3										
4										

D. Production of livestock during 2020

Sl. No.	Type/ category of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries				
			(Nos)	Kgs		General		SC/ST		Total
						M	F	M	F	
1	**Cattle/ Dairy**									
2	**Goat**									
3	**Piggery**									
4	**Poultry**									
5	**Fisheries**									
6	**Others (Specify)**									
	Total									

3.6. Literature Developed/Published (with full title, author & reference) during 2020

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies	
			Produced/ published	Supplied/ distributed
Research papers				
1.				
2.				

3.				
Training manuals				
Technical Report				
1.				
2.				
3.				
Book/ Book Chapter				
Popular articles				
Technical bulletins				
Extension bulletins				
Newsletter				
Conference/ workshop proceedings				
Leaflets/folders				
e-publications				
Any other (Pl. specify)				
TOTAL				

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

(C) Details of Electronic Media Produced

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

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

1) Cultivation of tomato during kharif season

Challenge :

Mr. Lalrinkima (56 years) hailing from Chawngtlai village, Khawzawl District of Mizoram is one among the many farmers whose case study is worth exemplifying. His formal education upto class X has augmented his farming career to a prodigious extent too. He currently owns 3 acre of land and grow different kind of vegetables. He is supported by his family of four sons and three daughters. Though his earning is also centered on other casual opportunities like masonry works etc, he has ventured out to achieve more innovative work in the field of agriculture. Earlier he could not cultivate tomato due to lack of high yielding and disease resistant varieties in tomato, Inability to cultivate tomato in open fields in *kharif* season and Inadequate source of income to support the family.

Initiative:

To tackle the above problems, KVK, Champhai district in collaboration with ICAR-IIHR undertook to demonstrate tomato cultivation variety Arka Samrat in his field covering an area of one acre in *kharif* season in the year 2020. Keeping in view the urgent needs, KVK Champhai took the initiative of tomato cultivation and identified his problems through personal interviews and engaging various PRA tools. Consequently, the farmer was convinced about the potential of this particular variety wherein he agreed upon and took up cultivation in *kharif* season of 2020.

During the period of cultivation, KVK personnel also made numerous field visits, organized field days and trainings for the neighboring farmers too. Plant protection chemicals were also provided as and when required based on the diagnostic visits made by KVK personnel, telephonic conversations and Whatsapp® interactions.

Result:

Out of the many un-mentioned socio-economic impacts, marketing status and farming situation impacts, few observed parameters are consolidated and highlighted below. These parameters highlighted are scaled against the predominantly grown farmers' variety which was grown sparsely and unscientifically in the said location.

S. N	Particulars	IIHR variety	Farmers practice
1.	Variety Name	Arka Samrat	Samrudhi
2.	Season	*Kharif*	*Kharif*
3.	Area cultivated in acres	1	1
4.	Average price obtained per kg	60	50
5.	Yield obtained per acres	55qtl	25qtl
6.	Gross cost of cultivation per acre (Rs./ac)	50769.00	50000.00
7	Net income per acre (Rs./ac)	279231.00	75000.00

Average yield and Net income obtained from tomato variety Samrudhi was 25 qtl/acre and Rs 75,000 whereas average yield of 55 qtl/ acre and Net income of Rs. 2, 79,231 was observed in Arka Samrat

Impact:

The efforts made by Mr. Lalrinkima were already visible after few weeks of initiation and could sum up excellent results after his final harvest. He immediately gained popularity and his neighboring farmers also came to know the about his produce and quality of Arka Samrat. He motivated his neighboring farmers to adopt the same which now gradually spread to the entire village.

Besides the impact mentioned above, which were scaled against Samrudhi variety, it is worth mentioning that tomato cultivation gained popularity in the entire of the village which is still spreading out to many adjoining villages also. District administration, other line departments and financial institutions has also come to know about this development and willing to render possible help upon this unique achievement.

Contact Number: 6009552539

2) Potato- a stable source of income for Champhai district:

Challenge:

The diverse agro-climatic conditions, varied soil type and abundance of rainfall offer immense scope for cultivation of Potato. In Champhai District, Potato cultivation is becoming popular among the farmers due to wider adaptability. The demand of potato has widened its scope which helps to uplift the economic condition of smallholder farmers. From nutritional point of view, potato is a wholesome food and deserves to be promoted as a potential high-quality vegetable. The low volume of production and problem of fragmentation of land has hindered in commercialization. However, Farmers face challenges at every stage of the potato growth and storage cycle. Unavailability of quality seeds, lack of technical knowledge on pest and disease management, Soil and nutrient management, low yield as well as post-harvest losses etc are the major problems observed in potato cultivation in Champhai District. One among such farmer is Mr. C. Lalhmangaiha who is supported by his family members of 3 children and his wife. He is a matriculate who has preferred to earn his income in his native village.

Initiative:

Potato has the potential to increase productivity by the use of scientific technology which helps in assuring food security. Therefore, seeing the interest of farmers in general and to tackle the immediate need of Mr. KVK Champhai district procured high yielding potato seeds (*Kufri Megha*) from CPRI, Shillong in the year 2020. Among the few selected farmers for field demonstration, Mr. C. Lalhmangaiha was also involved to grow potatoes seeing to his keen interest, resources available with him and past experiences he had in his field.

Key result:

The average productivity of Potato was found 76 quintal ha^{-1} with a net return of Rs 358,700/- in the study area. The yield was still low as compared to national productivity average due to uneven distribution of rainfall on the standing crops. Farmers sold out their productivity of potato at the rate of Rs 50.00/- per kg in local market and kept the remaining for the next season. However, the quality of tubers was much better than expected.

Sl.No	Particulars	
1	Variety Name	Kufri Megha
2	Season	Kharif & Rabi
3	Area cultivated in acres	1
4	Average price obtained per kg (Rs)	50.00
4	Yield obtained per acre	37 q
5	Net income per acre (Rs/ac)	137,700.00

Impact:

By conducting the demonstration at farmers' field at different location such as Zotlang, Tuipui, Chawngtlai and Tualte, it shows a huge success as compared to local variety. In the year 2021 Potato *Kufri Megha* variety became popular and high demand among the farmers and now farmers are growing in a large scale in and around Champhai District. Farmers also started to construct their own storage structures for the coming season. A small time window available between the growing seasons could be effectively utilized for growing other legumes such as cowpea and garden pea.

Lesson Learnt:

Farmers have experienced that late sowing of Potato could lead frost injury at different places in Champhai District. The results reveal that sowing at the right time could help farmers to increase production and productivity. It was also seen that potato could be cultivated in two seasons *i.e.,* January -April and October – January. It was also observed that sorting and grading of the tubers should be given high priority in order to segregate out seed materials for the next season, family consumption and for selling purpose.

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

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

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

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

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

3.11 Field activities

i. Number of villages adopted
ii. No. of farm families selected
iii. No. of survey/PRA conducted

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Available

1. Year of establishment : 2015
2. List of equipment's purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		**MRIDAPARIKSHAK**	**-**	**1**	**86000**
2					
3					
Total				**1**	**86000**

3. Details of samples analyzed (2020) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	200	200	15	NIL
Water Samples				
Plant Samples				
Petiole Samples				
Total	**200**	**200**	**15**	NIL

4. Details of Soil Health Cards (SHCs) (2020)

a. No. of SHCs prepared: 200
b. No. of farmers to whom SHCs were distributed: 200
c. Name of the Major and Minor nutrients analysed: Avail.N, P, K, pH, OC,
d. No. of villages covered: 15

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	130	150	Nil	Nil	20	20	57	57	34	34	12	12	253	253
Voice only	350	350	Nil	Nil	53	53	102	102	56	56	61	61	622	622
Voice and Text both	-	-	Nil	Nil	-	-	-	-	-	-	-	-	-	-

Total	**480**	**480**	**Nil**	**Nil**	**73**	**73**	**159**	**159**	**90**	**90**	**73**	**73**	**875**	**875**

3.14 Contingency planning for 2020

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**	**8**	**0**	**15**	**15**
Drought	**Introduction of Resource Conservation Technologies**	**10**	**0**	**20**	**20**
Drought	**Distribution of seeds and planting materials**	**15**	**0**	**22**	**22**
	Any other (Please specify)				

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Number of birds/ animals to be distributed**	**No. of programmes to be undertaken**	**No. of camps to be organized**	**Proposed number of animals/ birds to be covered through camps**	**Number of beneficiaries proposed to be covered**		
					General	**SC/ST**	**Total**
Nil	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**	**Nil**

4.0. IMPACT

1. Introduced new varieties in the district (watermelon, potato, brinjal, tomato etc)
2. Impact on farm mechanization at many places
3. FAW controlled to a great extent
4. Horizontal extension of field pea
5. Introduction of community approach to Beekeeping

6. Reviving rural youth in vermicomposting and mushroom production

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

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

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2020

Name of organization	Nature of linkage
State Department of Agriculture/Horticulture/ AH&VETY/ Fishery/ Forestry/ Soil & Water Conservation/ Minor Irrigation/ Sericulture of Champhai District and Khawzawl District.	Implementation of RKVY, NFSM, supply of subsidized inputs like chemicals, farm machinery, Project, Training, Technical Advices, etc
NABARD	Implementation of Project and Trainings
ATMA	Training and technical advice as Resource person
IWMP	Training and technical advice as Resource person
Block Development Office	Training and technical advice as Resource person
NGOs AMFU, YMA etc	Technology transfer, Awareness programme, Celebration of important days
IFAD FOCUS(Fostering Climate Resilient Upland Farming System)	Training and technical advice as Resource person and as National Representative
District Commissioner of Champhai District and Khawzawl District.	Member-District level committee on providing irrigation facilities to farmers.

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

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2020

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
IPM in rice and vegetable crops	**Purchase of knapsack sprayers**	**30/7/2020**	**NCIPM**	**100000.00**
PPV&FRA	**Conducting training**	**10/11/2020**	**Directorate of Agriculture (R&E)**	**60000.00**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks
1	**Nil**	**Nil**	**Nil**

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Nil	Nil	Nil

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	Nil	Nil	Nil

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2020

6.1 Performance of demonstration units (other than instructional farm)

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	Vermi composting unit – 2 nos	2008 & 2016	480 sq.ft	Red Worm (*Eisenia-foetida*)	Compost/Biofertilizers	25q	12000	30000	-
2	Azolla Unit	2016	160sq.ft	-	Biofertilizer	60kg	1050	1200	-

6.2 Performance of instructional farm (Crops) including seed production during 2020

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice									
Wheat									
Maize	1) 5 May 2)28May 3)21May 4)27Aprl	1)26 Sept 2)22 Sept 3)14 Sept 4)19Aug	1)0.04 2)0.018 3)0.015 4)0.002	1) M-19 2) M-3 3) M-2 4) RCM-75	1) Seed 2)Seed 3)Seed 4)Seed	1)35.2kg 2)21kg 3)18kg 4)14kg	1)1800 2)1200 3) 900 4) 900	1)2800 2)1750 3)1400 4)1100	
Any other									
Pulses									
Green gram									
Black gram									
Arhar	May 16	Oct 19	0.7	Local	Seed	58kg	8360	11600	
Lentil									
Ay other									
Oilseeds									
Mustard									
Soya bean	10 Aug	18 Dec	0.04	Local	Seed	50kg	6080	10500	

Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.	**29 Aug**	**-**	**1**	**Local**	**-**	**-**	**22000**	**-**	**Newly planted**
ii.									
Vegetables									
i.									
ii.									
a. Others (specify)									
i.									
ii.									

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2020

Sl. No.	Name of the Product	Quantity	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	3000	22000	40000	-
2	Azolla	60kg	1050	1200	-

6.4 Performance of instructional farm (livestock and fisheries production) during 2020

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2020

Date	Title of the training course		No. of Courses	No. of Participants including SC/ST

		Client (PF/RY/EF)		Male	Female	Total
22/04/2021	Importance of Rainwater Conservation in Hill Farming	PF	1	6	5	11

6.6. Utilization of hostel facilities (Month-Wise) during 2020

Accommodation available (No. of beds): 15

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

Note:- Identified and utilized as Covid Care Centre by district authorities since April 2020 till date.

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Khawzawl	37041217638
With KVK	-	-	-
Revolving Fund	State Bank of India	Khawzawl	37958564078

7.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2020

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st March, 2021
	Amount	Amount(Pulses)	Amount	Amount(Pulses)	
Inputs		1.69468		1.69468	nil
Extension activities		0.04532		0.04532	nil
TA/DA/POL etc.		0.06000		0.06000	nil
TOTAL		**1.80**		**1.80**	**nil**

7.3 Utilization of KVK funds during the year 2020

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	153.18446	153.18446	153.18446
2	**Traveling allowances**	2.30	2.30	2.30
3	**HRD**	0.75	0.75	0.75
4	**NARI**	0.50	0.50	0.50
5	**KSHAMTA**	0.50	0.50	0.50
6	**Hydroponics**	1.00	1.00	1.00
3	**Contingencies**	**17.68854**	**17.68854**	**17.68854**

A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipment			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**175.92300**	**175.92300**	**17592300**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipment including SWTL & Furniture**	1.80	1.80	1.80
3	**Vehicle** (Four wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**1.80**	**1.80**	**1.80**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**177.72300**	**177.72300**	**177.72300**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance with KVK (in lakh)
April 2016 to March 2017	51,466	32,600	46,800	0.3726
April 2017 to March 2018	37,266	12,539	1,180	0.48625
April 2018 to March 2019	48,625	42,680	3,680	0.87625

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.
(Write in detail)

8.1 Constraints and Suggestion (Provide point-wise if any, for recommendation)

CONSTRAINTS: -

(a) **Administrative:**

- ❖ No define guidelines for the services benefit and lack of promotion channel for KVK staff.
- ❖ Unavailability of pension and gratuity benefits and medical benefits for KVK staff.
- ❖ Over burden by reporting to host department, ICAR and District authorities.
- ❖ Shortfall in modernization and upgradation of office buildings, assets and staff quarters
- ❖ Overlapping of KVK activities with that of the host department, other assigned activities besides mandated activities of KVK
- ❖ Lack of support from host department, Agriculture and other allied departments.
- ❖ Lack of opportunities for upgrading knowledge as no provision of full fledge library, subscription of journal etc.
- ❖ Lack of man power for administration establishment and effective and smooth functioning of KVK.
- ❖ Delay in recruitment of vacant post.

(b) **Financia**l

- ❖ Non availability of funds for building (Administrative, Staff quarter, Farmer Hostel etc) maintenance and renovation.
- ❖ Limited fund for Farm development and establishment of demonstration unit.
- ❖ No provision of fund for boundary wall fencing, farm approach and internal roads.
- ❖ No provision for development of Integrated farming system model, infrastructure facilities viz. Farm go-down/store, electrification and water supply
- ❖ Insufficient fund for conducting training, trials and demonstration.
- ❖ Insufficient fund for contingencies, transport allowances etc.
- ❖ Insufficient fund under salary head to cover 7CPC arrear.

(c) **Technical**

- ❖ Untimely supply of inputs
- ❖ Lack of awareness among the farmers regarding the use of ICT for educational and agricultural purpose.
- ❖ Lack of reliable and updated statistical data of the district.
- ❖ Low risk and decision making abilities of the farmers to take up new technologies.
- ❖ Shortage of transportation facilities for conduct of various mandated activities.
- ❖ Lack of Quarantine post to check diseases and pest etc.
- ❖ Lack of infrastructure facilities for livestock production and research activities.
- ❖ Insufficient infrastructure facilities for plant protection.
- ❖ Insufficient skilled man power for Laboratory works
- ❖ Insufficient, proper and improved facilities for Information & Communication Technology.
- ❖ Insufficient man power for farm development.

SUGGESTION:-

(a) **Administrative:**

- ❖ Regularization of KVK staff at par with the State Govt. employees or ICAR employees.
- ❖ Development of define guidelines for pension, medical facilities and other services benefit at par with ICAR or State/Central Govt. employees.
- ❖ Minimize the workload and overburden of KVK by giving priority to mandated activities by removing overlapping of KVK activities with that of the host department, other assign activities besides mandated activities.

- Treatment of KVK staff at par for the purpose of privileges, amenities and facilities permissible to the employees of the host department
- Increase man power of non-technical staff to minimize the workload and burden.
- Renovation of Staff Quarters, Farmers' Hostel and Admin building at the earliest

(b) **Financial**

- Provision of funds for Building maintenance and renovation.
- Additional fund for farm works, demonstration unit and IFS model
- Fund for farm infrastructure facilities such as farm fencing, electrification, go-downs, farm approach/internal roads and water connection.
- Additional fund for training, exhibition, Kisan Mela, OFT, FLD etc.
- Salary requirements for payment of remaining 7th CPC arrear.
- Increase fund for contingencies, TA etc
- Provision of fund for medical reimbursement.
- Provision of fund for employee allowances admissible to ICAR or state/central employees.
-

(c) **Technical**

- Establishment of Farmers Service Centre, Information support system and plant nutrition diagnostic Centre with advance equipment.
- Establishment of disease free seedling production unit, Farm Shed, Go-down, working shed for seed and planting materials production.
- Establishment and development of model organic farm and herbal garden at KVK Demonstration Farm/unit.
- Provision of boundary wall fencing and development funds for establishment and development of farm approach roads and internal roads with farm electrification.
- Establishment of poly-house and high tech green houses
- Establishment of animal health clinic.
- Installation of KIOSK at block and village level
- MIS

(Signature)
Sr. Scientist cum Head