PROFORMA FOR ANNUAL REPORT OF KVKs, (January to December, 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	
KVK, Khowai, P.O. Chebri, Dist: Khowai, Tripura- 799207	-	-	dkvkwesttripura@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Sri Ramakrishna Seva Kendra, 81 Bondel Road, Kolkata-700019, West Bengal	033-22809579	033-22809578	srskcal@yahoo.co.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Manoj Singh Sachan	-	9862807336	sachankvkmon@gmail.com

1.4. Year of sanction: **1979**

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
1	Sr. Scientist & Head	Dr. Manoj Singh Sachan	Senior Scientist & Head	Genetics & Plant Breeding	L-13A Col-2	135300	18.12.2020	Permanent	OBC
2	Subject Matter Specialist	Dr. Nurul Islam	SMS (Animal Science)	Vety. Gynae. & Obst.	L-11 Col-12	93800	5.12.2007	Permanent	Others
3	Subject Matter Specialist	Mr. Suresh Biswas	SMS (Home Science)	Food Technology	L-11 Col-7	80900	18.12.2010	Permanent	SC
4	Subject Matter Specialist	Dr. Subhra Shil	SMS (Horticulture)	Horticulture	L-10 Col-8	69000	21.09.2013	Permanent	OBC
5	Subject Matter Specialist	Mr. Dipankar Dey	SS & Head (i/c) & SMS (Soil Science)	Soil Science	L-10 Col-8	69000	30.09.2013	Permanent	Others
6	Subject Matter Specialist	Mr. Ardhendu Chakraborty	SMS (PP)	Entomology	L-10 Col-7	67000	15.10.2014	Permanent	Others
7	Subject Matter Specialist	Mr. Rajib Das	SMS (Agril. Extension)	Extension Education	L-10 Col-4	61300	16.05.2018	Permanent	SC
8	Programme Assistant	Vacant	PA	-	-	-	-	-	-

9	Computer Programmer	Mr. Pradip Deb Barma	PA (Animal Science)	Animal Science	L-8 Col-15	72100	02.05.1988	Permanent	ST
10	Farm Manager	Mr. Prasanta Reang	Farm Manager	Agronomy	L-6 Col-4	42300	03.10.2015	Permanent	ST
11	Assistant	Swapan Kumar Deb	Office Supt. Cum Accountant	Commerce	L-7 Col-7	53600	07.10.2004	Permanent	OBC
12	Stenographer	Kaushik Sengupta	Jr Steno cumTypist	Stenography	L-5 Col-14	42800	05.07.1990	Permanent	Others
13	Driver	Monmohan Debnath	Driver	-	L-4 Col-7	30500	1.04.2000	Permanent	OBC
14	Driver	Rakesh Debnath	Driver	-	L-3 Col-7	26000	24.10.2014	Permanent	OBC
15	Supporting staff	Mr. Gautam Deb Barma	Supporting staff	-	L-1 Col-5	20300	22.09.2017	Permanent	ST
16	Supporting staff	Manas Deb Barma	Supporting staff	-	L-1 Col-8	22100	24.10.2014	Permanent	ST
	Total	**15**							

1.6. a. Total land with KVK (in ha) : **43.46 ha**

b. Total cultivable land with KVK (in ha): **3.00 ha**

c. Total cultivated land (in ha):

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.71
2.	Under Demonstration Units (pl. specify the name) i.Piggery ii.Fieshery iii.Poultry iv.Dairy V.Duckery	0.75
3.	Under Crops (Cereals, pulses, oilseeds etc.) i.Paddy	1.00
4.	Under vegetables	2.00
5.	Orchard/Agro-forestry	39.00
6.	Others (specify)	Nil

1.7. Infrastructural Development:

A) Buildings

Sl. 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	1979-1991	-	6,91,010	-	-	Need renovation with up gradation
2.	Farmers Hostel	ICAR	1983-1987	-	8,22,107	-	-	Need renovation with up gradation
3.	Staff Quarters (5)	ICAR	1985-1991	-	12,09,865	-	-	Need renovation with up gradation

4.	Demonstration Units (2)	ICAR	1990-1991	-	-	-	-	Need renovation with up gradation
5	Fencing	ICAR	1985-1986	-	-	-	-	Damaged
6	Any Other (Pl. specify)	ICAR, DRDA, RF	1982-2003	-	21,90,231	-	-	Complete
I.	Fencing	ICAR	2002-2003	-	8,000	-	-	Need renovation
II.	Rain water harvesting	Spices Board	2010-2011	-	-	-	-	Nil
III.	Threshing floor	ICAR	1982-1983	-	-	-	-	Need renovation
IV.	Farm Godown	ICAR	2005-2006	-	-	-	-	Need renovation
V.	Guest house	ICAR	1990-1991	-	-	-	-	Need renovation
VI.	Garage	ICAR, SRSK	1991, 2008	-	-	-	-	Complete
VII.	Library	ICAR	1986-1987	-	-	-	-	Complete
VIII.	Animal Science Store	ICAR	1986-1987	-	-	-		Need renovation
IX.	Fishery store	ICAR	1981-1982	-	-	-	-	Need renovation
X.	Class room(3)	ICAR	1982-1983	-	-	-	-	Need renovation
XI.	Soil & Water Testing Lab	ICAR	2005-2006	-	-	-	-	Need improvement with infrastructure facilities
XII.	Vermicompost unit (6)	RF, Spices Board, MGNREGA	2008-2009	-	-	-	-	Complete
XIII.	Mushroom spawn production lab	ICAR and RF	2013-14	-	1,30,000.00	-	-	Complete
XIV.	Agri clinic	RF	2014-15	-	-	-	-	Complete
XV.	Biofloc unit	T-SAMETI, Deptt of Agriculture, Govt of Tripura	2020-21		100000.00			Complete

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Mahindra Bolero Jeep	TR016A0338	2016-17	800000.00	57900	Good

C) Equipments & AV Aids

Sl. No.	**Name of the equipment**	**Year of purchase**	**Cost (Rs.)**	**Present status**
1	Hand Sprayer	2005	-	Good
2	Foot Sprayer	2003	-	Good
3	Mechanical weighing machine	2003	58,088.00	Good
4	Solar motor pump	2003	30,060.00	Good
5	Power tiller	2016	1,63,000.00	Good
6	Thresher	2005-2006	15,500.00	Good
7	Photo copying machine	2017	63803.00	Good

8	Digital chemical balance	20052006	19,000.00	Good
9	Rotary shaker	20052006	6,900.00	Good
10	Soil sampler	20052006	5,200.00	Good
11	Hot water bath	20052006	4,900.00	Good
12	Muffle furnace	2005-2006	13,600.00	Good
13	Spectrophotometer	2005-2006	30,000.00	Need to be repaired
14	Micro centrifuge	2005-2006	17,000.00	Good
15	Colorimeter	2005-2006	11,800.00	Good
16	TV (B/W) – 1 nos.	1991	10,800.00	Need to be repaired
17	TV (Colour) – 6 nos.	2001-2005	41,794.00	Good
18		2001-2005		
19	VCD – 2 nos.	2003- 2005	42,231.00	Need to be repaired
20	Camera – 4 Nos.	2013,2014	56,960.00	Good
21	Multimedia P.C (9)	2003, 2004, 2016	-	Good
22	LCD projector with display screen	2008-09	1,00,012.00	Need Renovation
23	Autoclave (3)	2011-12	5,63,045.00	Good
24	B.O.D. Incubator	2011-12	87,720.00	Need to be repaired
25	Steel rack (20)	2011-12	1,51,912.00	Good
26	CPU (1)	2012-13	19,900.00	Good
27	Hard disk external (2)	2012-13	11,600.00	Good
28	Laminar flow (1)	2011-12	39,450.00	Good
29	Laminar flow (1)	2012-13	67,873.00	Good
30	Mixture machine (1)	2012-13	4,115.00	Good
31	Research microscope (1)	2012-13	22,246.00	Good
32	Note pad computer (1)	2012-13	16,900.00	Need to be repaired
33	UPS (APC 1 KV) (1)	2012-13	13,800.00	Good
34	Weighing balance (1) 200 gm capacity	2011-12		Good
35	Refrigerator (3)	2011-12, 16-17	41000.00	Good

36	Digital balance (1)	2011-12	12,650.00	Good
37	pH meter	2012-13	15743.00	Need to be repaired
38	EC meter	2012-13	25936.00	Need to be repaired
39	Canon printer (9)	2011-12, 2016	79025.00	Good
40	Spiral binding machine (1)	2011-12	4030.00	Good
41	Fax machine (1)	2011-12	6050.00	Good
42	GPS instrument (1)	2011-12	21,111.00	Good
43	UPS (600 V) (1)	2011-12	2550.00	Good
44	HP combined printer & Scanner (2)	2012-13, 2016	9000.00	Good
45	Rotary shaker (1)	2012-13	38,604.00	Good
46	Vacuum cleaner (1)	2012-13	6799.00	Good
47	Internet modem (4)	2012-13	6800.00	Good
48	Internet modem wi fi (1)	2016-17	3500.00	Good
49	Intercom	2015-16	20000.00	Good
50	Sewing machine (5)	1980-1985	4,250.00	Good
51	Lenovo computer notebook	2013-2014	47,520.00	Good
52	Lenovo desktop	2013-2014	31,630.00	Good
53	UPS 600 VA	2013-2014	2,530.00	Good
54	LAN connection	2013-2014	12,083.00	Need to be repaired
55	Mridaparikshak (2)	2015-16	165300.00	Good
56	Tractor	2017-18	10,00,000.00	Good
57	Generator	2017-18	85,958.00	Good
58	Distilled Water plant	2016-17	25000.00	Good
59	Ahuja Speaker with stand, Ahuja Microphone	2018-19	18420.00	Good
60	Sprinkler Irrigation Set(12 Numbers)	2019-20	3,0000.00	Good
61	Inverter (3 numbers)	2020-21	8,0000.00	Good
62	LCD projector with Screen	2020-21	45,200.00	Good
63	Refrigerator	2020-21	17,000.00	Good

64	Foot Sprayer	2020-21	6328.00	Good
65	Chain Saw	2020-21	16520.00	Good
66	Mixer Grinder	2020-21	5252.00	Good
67	Portable LCD Projector	2020-21	9500.00	Good

1.8. A). Details SAC meeting* conducted in 2020

Date	**Name and Designation of Participants**	**Salient Recommendations**	**Action taken on last SAC recommendation**
29.12.2020	1. Mr. Suresh Chandra Saha-General Secretary of SRSK, Kolkata, the host institute of the KVK, Khowai. 2. Swami Bodhisattwananda Maharaj Ji- Asstt General Secretary of SRSK, Kolkata 3. Swami Achalananda Maharaj Ji-Member of SRSK, Kolkata 4. Dr. A.K Singha-Principal Scientist (AE), ICAR-ATARI, Umiam, Meghalaya 5. Dr. Biswajit Das-PS (Horiculture)-ICAR (RC) for NEH Region Tripura Centre 6. Mr. Krishnahari Tripura, Deputy Director, Fisheries, Khowai, Tripura. 7. Mr. Kashinath Das, Deputy Director, Horticulture & Soil Conservation, Khowai 8. Mr. Amit Das, DDM, NABARD, Khowai, Tripura. 9. Dr. Abhijit Saha, Asst. Professor, College of Agriculture, Tripura. 10. Dr. Jagganath Banik, Assistant Director-ARDD, Khowai, Tripura 11. Mr. Gautam Das, Spices Extension Trainee, Spices Board, Agartala 12. Mr. Suman Bhowmik, Senior Agriculture Demonstrator, Spices Board 13. Mrs. Sarubala Debbarma, Progressive Farm Women, North	1. Dragon Fruit Orchard may be established at KVK, Campus. (Action to be taken by: SMS-Horticulture) 2. Pineapple with Mulching Technology may be demonstrated at KVK, Campus. (Action to be taken by: SMS-Horticulture) 3. Gynodiocious Papaya Variety Pusa Delicious to be tested for demonstration (Action to be taken by: SMS-Horticulture) 4. IPM Modules must be designed with new Molecules (Action to be taken by: SMS-Plant Protection) 5. Eco friendly Pheromone traps may be demonstrated in vegetables and in Rice. (Action to be taken by: SMS-Plant Protection) 6. Blue Sticky trap along with the yellow sticky trap must be demonstrated for chilli leaf curl disease. (Action to be taken by: SMS-Plant Protection)	1. Initiated both in KVK campus & Farmers field 2. Action Taken 3. Action will be taken 4. New molecules has been incorporated in all the modules 5. Pheromone Traps will be included in all demonstration. 6. Blue Sticky Traps has been Procured and will be distributed among the Chilli Growers.

	Pulinpur, Khowai 14. Mr. Chitta Ranjan Debbarma, Progressive Farmer, North Pulinpur, Khowai 15. Mr. Niranjan Debnath, President, Prabin Farmers Club, R.C. Ghat, Khowai 16. Mrs. Himadri Debbarma, Progressive Farm Women, Tulashikhar, Khowai 17. Mr. Dipankar Dey, Senior Scientist & Head (i/c), KVK, Khowai, Tripura. 18. Dr. Nurul Islam, SMS-Animal Science, KVK, Khowai, Tripura. 19. Mr. Suresh Chandra Biswas-SMS-Home Science, KVK, Khowai, Tripura. 20. Dr. Subhra Shil, SMS-Horticulture, KVK-Khowai 21. Mr. Ardhendu Chakraborty, SMS-Plant Protection, KVK, Khowai, Tripura. 22. Mr. Prasanta Reang, Farm Manager, KVK, Khowai, Tripura. 23. Mr. Subrata Choudhury, Programme Assistant -Fishery, KVK, Khowai, Tripura. 24. Mr. Pradip Debbarma, Programme Assistant-Animal Sc., KVK, Khowai, Tripura. 25. Mr. Swapan Kumar Deb, OS cum Accountant, KVK, Khowai, Tripura. 26. Mr. Kaushik Sengupta, Steno cum Typist, KVK, Khowai, Tripura. 27. Mr. Lord Litan Debbarma, SRF-NICRA, KVK, Khowai, Tripura. 28. Miss. Tillotama Debbarma, WDT Member- IWMP, KVK, Khowai, Tripura.	7. Sulphur must be applied in Oilseeds for increasing Oil Content.(Action to be taken by: SMS-Plant Protection & SMS-Soil Science) 8. Standardization of Artificial insemination must be done in Association with the Department of ARDD, Govt of Tripura.(Action to be taken by: SMS-Animal Science) 9. Duckery unit at KVK Campus to be upgraded.(Action to be taken by: SMS-Animal Science) 10. New Poultry Breeds must be introduced and to be made available at KVK, Khowai. (Action to be taken by: SMS-Animal Science) 11. Organic Fish Farming must be promoted. (Action to be taken by Prog. Assistant Fishery) 12. Bio-Floc Fish farming must be adopted by the Dept. of Fisheries, Govt of Tripura based on the result of the Assessment done at KVK, Khowai. (Action to be taken by Prog Assistant Fishery) 13. Training for immunity boosting of the farmers & farm women must be organized (Action to be taken by SMS-Home Science)	7. Action will be taken during the next Rabi Season. 8. Action Taken, AI in Goat & Pig will be introduced gradually, I for Cattle are done. 8. Action taken, Ducklings are made through handmade incubators 10. Kadaknath Poultry is introduced & eggs are set for hatching to propagate further, Tripura Black Chicken 11. Action will be taken after joining of the Fishery Prog. Assistant. 12. Till now no success of Bio-Floc Fish farming is observed, so large scale adoption cannot be made 13. Already Training has been conducted in this aspect.

**** 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	Agro - based farming system - Paddy (Mono cropped)
2	Agro - horti based farming system – Paddy-TPS/Chilli/Cucurbitaceous vegetables
3	Agri – horti – pisci -livestock
4	Horti-agri-livestock
5	Agriculture
6	Livestock
7	Horti-pisci-agri
8	Livestock-agri-horti
9	Agri-horti-silvi-pastoral-livestock
10	Plantation (Rubber)
11	Plantation-pisci-livestock
12	Horticulture

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

Sl. No	**Agro-climatic Zone**	**Characteristics**
1	Humid Dissected Mount & Valleys	Lateritic soil and texturally sandy loam-loamy sand. It is characterized by high hills and steep slopes of the hillocks.
2	Sub Humid Denuded Hills	Alluvial soil and texturally clay in small pockets. It is characterized by river valleys and low lying (Marshy) areas suitable for lowland rice cultivation.
No.	**Agro ecological situation**	**Characteristics**
1	15bi Dc2 3h $B_4$10	Humid Hyperthermic with LGP>300 days and moisture index 80-100%. Soils red and lateritic. Mean annual temperature is 22ºC.
2	15bii (1) Dc2 3h $B_3$10	Humid Hyperthermic with LGP .300 days and moisture index 60-80% in high relief structural hills. Soils red and lateritic. Mean annual temperature is 22ºC.
3	15biii Dc2 3h $B_2$10	Humid Hyperthermic with LGP .300 days and moisture index 40-60%. Soils red and lateritic

2.3 Soil type/s

Sl. No	**Soil type**	**Characteristics**	**Area in ha**
1.	Upland soil	Podzolic, lateritic and are mostly sandy clay loam in nature. Soils are granular, loose, friable and non sticky with good drainage.	NA
2.	Lowland soil	Found in deep and narrow synclinal valley, Soils are mostly clay loam, sub angular blocky, hard, firm and sticky with moderately poor drainage.	NA

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

Table 1. Area production and productivity of field crops in Khowai district, Tripura 2019-20.

Sl. No.	**Name of crop**	**2019-20**		
		Area (ha)	**Production (MT)**	**Yield (Kg/ ha)**
Cereals				
1	Aush paddy	1155	2927	2534
2	Aman paddy	14698	44079	2999
3	Jhum paddy	1427	1633	1144
4	Boro paddy	6930	21401	3088

	Total	**24210**	**70040**	**2893**
5	Wheat	20	43	2129
6	Maize (R)	471	1121	2380
7	Sorghum (R)	133	106	799
8	Maize hybrid	203	429.43	2115
9	Maize local/ composite	980	1117.03	1140
10	Sorghum	103	87.29	847
11	Foxtail millet	70	59.12	845
	Total	**26190**	**73002.87**	**-**
Pulses				
12	Moong (R)	256	179	700
13	Black gram (R)	248	183	738
14	Lentil (R)	261	174	666
15	Pea (R)	534	507	950
16	Gram (R)	16	10	618
17	Kesari (R)	4	3	645
	Others (R)	-	-	-
18	Rajmash (R)	102	82	802
19	Arhar	555	413.94	746
20	Moong	225	139.76	621
21	Black gram	89	54.80	616
22	Cow pea	355	263.24	742
23	Rajmash	4	3.77	943
	Total	**2649**	**2013.51**	**-**
Oilseeds				
25	Rapeseed/ mustard (R)	1465	1170	799
26	Groundnut (R)	176	266	1509
27	Soybean (R)	28	21	747
28	Flex/ Linseed (R)	85	68	803
29	Sesame	680	381.54	561
30	Groundnut	142	208.76	1470
31	Vegetable type soybean	2	1.50	750
	Total	**2578**	**2116.80**	**-**
Commercial crops				
32	Jute	43	416.13	9.68
33	Mesta	47	429	9.13
34	Cotton	47	66.10	1.41
35	Sugarcane	43	2335.40	54312
	Total	**180**	**3246.63**	**-**

Table 2. Area production and productivity of horticultural crops in Khowai district, Tripura 2019-20.

Sl. No.	**Name of crop**	**2019-20**		
		Area(ha)	**Production (Mt)**	**Yield (Mt/ ha)**
Summer vegetables				
1	Bhindi	322	3065	9.51863
2	Brinjal	231	4220	18.26839
3	Spine guard	99	1720	17.37373
4	Pointed guard	43	486	11.30232
5	Ridge guard	150	2667	17.78
6	Bitter guard	98	550	5.61224
7	Bottle guard	79	1416	17.92405
8	Sweet guard	78	1583	20.29487
9	Ash guard	67	1089	16.25373
10	Snake guard	10	118	11.8
11	*Colocasia*	130	2202	16.93846

12	Elephant Foot Yam	9	224	24.88888
13	Jal kachu	53	981	18.50943
14	Cucumber	117	1495	12.77777
15	Amaranthus	211	3410	16.16113
16	Barbati	-	-	-
17	Radish	48	707	14.72916
18	Cow pea	168	2839	16.8988
19	Summer cabbage	32	389	12.15625
20	Summer cauliflower	33	301	9.12121
21	Summer tomato	3	44	14.66666
22	Chilli (green)	54	497	9.2037
23	Leafy vegetables	24	244	10.16666
24	Water melon	330	8267	25.05152
25	Others	130	1825	14.03846
	Total	**2519**	**40737**	**-**
Winter vegetables				
1	Cabbage	338	9194	27.20118
2	Cauliflower	406	10637	26.1995
3	Brinjal	228	5534	24.27192
4	Radish	283	5524	19.51943
5	Tomato	186	5915	31.80107
6	Garden pea	64	261	4.07812
7	Cucumber	104	927	8.91346
8	Knol- khol	21	215	10.23809
9	French bean	48	279	5.8145
10	Carrot	56	616	11
11	Capsicum	12	94	7.83333
12	Brocoli	6	41	6.83333
13	Chilli	170	1171	6.88823
14	Bottle guard	127	2704	21.29133
15	Beet	19	42	2.21052
16	Others	111	1665	15
	Total	**2179**	**44837**	**-**
1	Potato	632	11452	18.12025
	Fruits			
1	Mango	806	4103	5.09057
2	Pine apple	682	9944	14.58064
3	Orange	216	968	4.48148
4	Jack fruit	224	5436	24.26785
5	Banana	1136	11746	10.35563
6	Litchi	52	179	3.4423
7	Lime/ lemon	414	1995	4.81884
8	Papaya	356	3596	10.10112
9	Sapota	13	81	6.23076
10	Mosomi	142	287	2.02113
11	Guava	70	328	4.68571
12	Others	173	1505	8.69942
	Total	**4284**	**40168**	**-**
	Nuts			
1	Coconut	399	997	2.49874
2	Areca nut	452	1546	3.42035
3	Cashew nut	22	9	0.40909
	Total	**873**	**2551**	**-**
	Spices			
1	Ginger	143	1216	8.50349

2	Turmeric	101	615	6.089
3	Chilli	278	659	2.3705
4	Black pepper	20	58	2.9
5	Onion	28	180	6.42857
6	Betel- vine	53	721	13.60377
	Total	**623**	**3448**	**14.60377**

2.5. Weather data during the year 2020

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	16.4	24.4	10.8	92.7	57.6
February	4.5	26.9	9.7	92.03	49.1
March	3.9	32.6	16.9	93.1	30.03
April	168.1	32.8	21.8	94.6	46.7
May	239.3	32.03	22.5	88.1	51.5
June	256.8	30.9	24	84.4	65
July	353.87	30.2	24.5	83	50
August	202.1	30.3	24.7	78.5	48.3
September	206.4	30.9	24.4	82.6	48.5
October	110.5	31.3	23.3	72.5	45.8
November	12.4	29.2	17.06	61.9	42.06
December	0.0	26.5	12.09	60.8	40.6

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

Category	Population	Production	Productivity
Cattle			
Crossbred	13071	5442169.38 kg	Milk: 4.54 kg/day
Indigenous	53989	12276349.89 kg	Milk: 1.12kg/day
Buffalo	87	26276.03 kg	Milk: 2.016 kg/day
Sheep			
Crossbred	-	-	-
Indigenous	202	-	-
Goats	36822	2367558.88 kg milk 220763.67 kg meat	Milk: 0.050 kg/day
Pigs			
Crossbred	14231	1672130.84 kg	Meat: 43.523 kg/year
Indigenous	7250		Meat: 43.523 kg/year
Rabbits	112	-	-
Poultry			
Hens			
Desi	287816	14869431 nos egg 25854.53 kg meat	Egg 85/layer/yr
Improved	32029	13439282 nos. of egg 3541358.56 kg Broiler	Egg 168/layer/yr
Ducks	61985	4518196 nos egg by deshi 2365958 nos. egg by improved	Egg: 161/Improved duck/yr, 109/local/yr
Turkey and others	15087	-	-

Category	Area	Production	Productivity
Fish			
Marine	-	-	-

Inland	**3572 Ha**	**9332 MT/Yr**	**2912 Kg/Ha/Yr**
Prawn	-	**2.3MT**	-
Scampi	-	-	-
Shrimp	-	-	-

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2020)

Sl. No.	**Taluk/ Eleka**	**Name of the block**	**Name of the village**	**Major crops & enterprises**	**Major problem identified**	**Identified thrust area**
1.	Teliamura	Teliamurah	North Pulinpur	Paddy, Bitter gourd, Chilli, Brinjal, Cowpea, Poultry, Piggery, Dairy, Fishery, Leafy vegetables, Maize, Rubber, Home science activity	Scarcity of water for irrigation; Unavailability of quality HYV; Lack of scientific knowledge on crop cultivation; Lack of knowledge in scientific dairy and poultry farming; low yield of rice and less fish production; less or no knowledge on health, sanitation, environmental pollution, women & child care and nutrition, soil fertility management; less entrepreneurial activity among rural youth.	Water management, Crop Diversification, IDM, IPM, Weed Management, INM, Soil fertility management, Production of organic inputs, Scientific livestock and fish farming, Management of animal health, Carp breeding and hatchery management, leadership development, formation and management of SHGs & Farmer's club.
2.	Teliamura	Teliamura	Duski	Paddy, Bitter gourd, Chilli, Brinjal, Cowpea, Poultry, Piggery, Dairy, Fishery, Leafy vegetables, Maize, Rubber, Home science activity	Scarcity of water for irrigation; Unavailability of quality HYV; Lack of scientific knowledge on crop cultivation; Lack of knowledge in scientific dairy and poultry farming; low yield of rice and less fish production; less or no knowledge on health, sanitation, environmental pollution, women & child care and nutrition, soil fertility management; less entrepreneurial activity among rural youth.	Water management, Crop Diversification, IDM, IPM, Weed Management, INM, Soil fertility management, Production of organic inputs, Scientific livestock and fish farming, Management of animal health, Carp breeding and hatchery management, leadership development, formation and management of SHGs & Farmer's club.
3.	Teliamurah	Teliamurah	Tuichindrai	Rubber, Pineapple, Paddy, Cowpea, maize, mushroom, poultry, piggery, lemon, Weaving etc.	Lack of knowledge on scientific farming of crop, livestock and fishery, value addition	Irrigation, entrepreneurial activity, training on scientific farming of crop, livestock and fishery, value addition
4.	Teliamurah	Mungiakami	South Gokulnagar	Piggery, lemon, Weaving, Rubber, Pineapple, Paddy, Cowpea, maize, mushroom, poultry, etc.	Lack of knowledge on scientific farming of crop, livestock and fishery, value addition	Irrigation, entrepreneurial activity, training on scientific farming of crop, livestock and fishery, value addition

5.	Teliamurah	Teliamurah	Hawaibari	Paddy, Potato, Pointed Gourd, Spine -Gourd, Winter Vegetables, Lemon	Unavailability of high yielding variety of rice, Injudicious use of chemicals and fertilizers, Un-scientific cultivation practice, , Lack of knowledge about utilizing the fallow period	Scientific package of practices, IPM, Crop diversification
6.		Kalyanpur	Ghilatali	Paddy, vegetable, fishery, piggery	Lack of proper irrigation, marketing , food processing , cold storage	Livestock, irrigation, marketing, Food processing
7.	Teliamurah	Kalyanpur	North Ghilatali ADC	Rubber, vegetable, piggery	Lack of Marketing, irrigation, more undulating topography	Land rectification, irrigation, piggery, fishery, marketing
8.	Teliamurah	Kalyanpur	West Ghilatali	Paddy, vegetable, fishery, piggery	Irrigation , marketing,	Livestock, soil fertility management
9.	Teliamurah	Kalyanpur	South Ghilatali	Do	Do	Do
10.	Teliamurah	Kalyanpur	Kamalnagar	Vegetable, paddy, livestock	Cold storage, fertilizer scarcity, lack of ARDD sub centre	Livestock improvement, cold storage etc.
11.	Teliamurah	Kalyanpur	Uttar Kamalnagar	Do	Do	Do
12.	Teliamurah	Kalyanpur	Krishnapur	Paddy, Brinjal, Chilli, Potato, Colacasia, Pea, Tomato, Cucurbits, Cabbage, Cauliflower	Lack of knowledge about utilizing the fallow period, Injudicious use of chemicals and fertilizers, Severe infestation Of weeds	Crop Diversification, IPM, Integrated nutrient management
13.	Teliamurah	Kalyanpur	Durgapur	Paddy, Brinjal, Chilli, Potato, Colacasia, Pea, Tomato, Cucurbits, Cabbage, Cauliflower	Lack of knowledge about utilizing the fallow period, Injudicious use of chemicals and fertilizers, Severe infestation Of weeds	Crop Diversification, IPM, Integrated nutrient management
14.	Teliamurah	Kalyanpur	Maigangapara	Spine gourd, Pointed gourd, Bean, Chilli, Mushroom, Brinjal	Lack of scientific cultivation of vegetables with Injudicious use of chemicals and fertilizers	IPM, IDM, ICM through eco-friendly manner

15.	Teliamurah	Kalyanpur	Gopalnagar	Paddy, seasonal Vegetables, fishery, livestock etc.	Lack of scientific knowledge to increase farm profit and family income	IDM, IPM, Weed Management, INM, Soil fertility management, Production of organic inputs, Scientific livestock and fish farming, Management of animal health, Carp breeding and hatchery management
16.		Kalyanpur	Gourangatilla	Paddy, seasonal Vegetables	Lack of scientific knowledge	IPM, IDM, INM etc.
17.		Kalyanpur	Moharchara	Paddy, seasonal Vegetables, mushrooms	Lack of scientific knowledge on crop production	IPM, IDM, INM etc.
18.	Khowai	Khowai	Boltoli	Paddy, Maize, Minor Tuber Crops	Unawareness about high yielding varieties, Traditional package of practices, Lack of knowledge about utilizing the fallow period, Lack of interest regarding vegetable cultivation.	Crop Diversification , Scientific package of practices, Varietal evaluation of Maize
19.	Khowai	Khowai	Uttar Chebri	Paddy & Vegetables, Piggery, Fishery	Lack of cold storage & food processing industry, No regularized market, No production of livestock feed ingredients	Feed and food processing industry, Marketing, cold storage etc.
20.	Khowai	Khowai	Paschim Chebri	Do	Do	Do
21.	Khowai	Khowai	Purba Chebri	Do	Do	Do
22.	Khowai	Khowai	Uttar R.C. Ghat	Do	Do	Do
23.	Khowai	Khowai	Sonatala	Do	Do	Do
24.	Khowai	Khowai	East Sonatala	Do	Do	Do
25.	Khowai	Khowai	Purba R.C. Ghat	Paddy, vegetables, fishery, poultry, dairy	Lake of knowledge on scientific fish production	Composite fish culture, fresh water prawn farming

26.	Khowai	Khowai	Batapura	Paddy, TPS, Cabbage, Cauliflower, Knolkhol, Cucurbits, Reddish, Mustard, Garden Pea	Injudicious use of chemicals and fertilizers, Lack of awareness about soil Health and Integrated nutrient management	IPM, Soil Health and Fertility management, Integrated Nutrient management
27.	Khowai	Khowai	Sachindranagar	Paddy, TPS, Cabbage, Cauliflower, Knolkhol, Cucurbits, Reddish, Mustard, Garden Pea	Injudicious use of chemicals and fertilizers, Lack of awareness about soil Health and Integrated nutrient management	IPM, Soil Health and Fertility management, Integrated Nutrient management
28.	Khowai	Khowai	Ganki	Paddy, vegetables, poultry, dairy, fishery	Financial problem, low yield of table fish production	Composite fish culture, Fish disease management
29.	Khowai	Khowai	Paschim Ganki	Paddy, vegetables, poultry, dairy, fishery	Financial problem, low yield of table fish production	Composite fish culture, Fish disease management
30.	Khowai	Khowai	Dhalabil	Paddy, Cabbage, Cauliflower, Knolkhol, Cucurbits, Reddish, Mustard, Garden Pea	Injudicious use of chemicals and fertilizers, Lack of awareness about soil Health and Integrated nutrient management	IPM, Soil Health and Fertility management, Integrated Nutrient management
31.	Khowai	Khowai	Tablabari	do	do	do
32.	Khowai	Khowai	Ajagartilla	do	do	do
33.	Khowai	Khowai	Jambura	Paddy, Potato, Vegetables, Fishery and dairy	Less input used for scientific management	Needs guidance for critical scientific agril. and allied inputs for maximum farm income through Integrated management practice
34.	Khowai	Tulashikhar	Rajnagar	Piggery, lemon, Weaving, Rubber, Pineapple, Paddy, Cowpea, maize, mushroom, poultry, etc.	Lack of knowledge on scientific farming of crop, livestock and fishery, value addition	Irrigation, entrepreneurial activity, training on scientific farming of crop, livestock and fishery, value addition

35.	Khowai	Padmabil	Tuhachingbari	Paddy, Cowpea, maize, mushroom, poultry Piggery, lemon, Weaving, Rubber, Pineapple, , etc.	Lack of knowledge on scientific farming of crop, livestock and fishery, value addition	Irrigation, entrepreneurial activity, training on scientific farming of crop, livestock and fishery, value addition

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
Soil Sc	2	2	19	26	1	1	20	58
Agronomy	0	0	0	0	2	2	80	159
Horticulture	2	2	8	8	2	2	20	20
Plant Protection	2	2	20	20	2	2	15	15
Home Science	2	2	15	15	2	2	20	21
Animal Sc	2	2	12	12	2	2	20	20
Fishery Sc	1	1	3	3	2	2	10	10
Total	**11**	**11**	**77**	**84**	**13**	**13**	**185**	**303**

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	28	33	660	780	1431	1674	11920	10293
Rural youth	29	30	480	722				
Extn. Functionaries(H.Sc)	11	9	220	175				
Total	**68**	**72**	**1360**	**1677**	**1431**	**1674**	**11920**	**10293**

Seed Production (ton.)		Planting material (Nos. in lakh)	
Target	Achievement	Target	Achievement
65	**80**	**0.25**	**0.95**

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2020

Sl	Thrust	Crop/	Identified	Interventions

. No	**area**	**Enterprise**	**problems**	**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	To increase vegetable production	Bottle gourd	Poor Yield and High male/female ratio	-	Application of Boron And Ethrel on Vegetative and fruit Character of Bottle Gourd	-	-	Group Discussion , Input distribution, Field visit	Supply of Ethrel and boron
2	To increase vegetable production	Colocasia	Poor nutrient management	Integrated Nutrient Management in Colocasia	-	-	-	Group Discussion , Input distribution, Field visit	Supply of Organic manure
3	To increase spices production	Ginger	Higher cost towards planting material	-	Cultivation of ginger through Raising Seedling	-	-	Group Discussion , Input distribution, Field visit	Supply of planting material
4	To increase flower production	Marigold	Less flower production in existing variety	Varietal Evaluation Marigold Var. Pusa Naringi	-	-	-	Group Discussion , Input distribution, Field visit	Supply of planting material
5	To improve Soil Fertility status	Paddy	Phosphorus Deficiency	Assessment of Root dipping in SSP-mc Slurry method of P management in transplanted rice growing areas of Khowai district					Fertilizers
6.	To improve Soil Fertility status	Cauli Flower	Boron Deficiency	Assessment on performance of Arka Vegetable Special for correction of Boron Deficiency in Cauliflower	-	-	-	-	Arka Vegetable Special

7	To reclaim Soil acidity	Maize	Soil Acidity	Popularization of Lime and Bio Fertilizers on improvement of Soil Fertility status and on improvement of Yield of Maize	-	-	-	-	Lime & Maize Seed
8	To increase oil seed production	Toria	Low Yield & Income	Popularization of Sesamum var. Tripura Siphing	-	-	-	-	Seeds
9	To increase oil seed production	Sesamum	Low Yield & Income	Popularization of Sesamum var. Tripura Siphing	-	-	-	-	Seeds
10	To reduce pest infestation	Tomato	Fruit borer infestation, low yield	Assessment of eco-friendly management of tomato fruit borer	-	Training on management of borer in solanaceous crop	-	Diagnostic visit	Seed, insecticide and pheromone trap
11	To reduce pest infestation	Papaya	Mealy bug infestation, poor fruit quality, less market acceptability	Assessment and validation of IPM modules against papaya mealybug	-	Training on management of sucking pest in fruits and vegetables	-	Diagnostic visit	Seedling, insecticide and biocontrol agent
12	To reduce pest infestation	Bittergourd	Fruit fly infestation in bitter gourd	-	Management of fruit fly in bitter gourd	-	Preparation of low cost poison bait	Diagnostic visit	Seed, insecticide and pheromone trap
13	To increase honey production	Mustard	Less awareness on beekeeping and importance of pollination	-	Popularization of beekeeping in Enhancing Yield of Mustard	Scientific beekeeping	-	Diagnostic visit	Seed and bee hive
14	To enhance fodder production	Goat	Less cultivation of nutritious fodder	Hydroponic device T1 *(Made of Bamboo & Aluminum tray)* *T2 (Made of Bamboo & Polythine)* *T3: Farmer's Practice(Tree leaves and tethering at low nutritious fodder)*	-	Scientific Livestock & Poultry farming methods at backyard and income generating activities	-	Method demonstration, scientist's visit, group discussion	Hydroponic device and maize seed

15	To improve housing arrangement	Poultry	Poor housing arrangements for poultry	T1: Rural Poultry Cage *Made of wood & CG leaf* *T2:* Rural Poultry Cage *Made of Bamboo & Aluminum Sheet* *T3: Farmer's Practice* Rural Poultry Cage*(Bamboo Cages kept inside house)*	-	Reducing production cost in livestock & Poultry rearing	-	Method demonstration, scientist's visit, group discussion	Rural Poultry Cage
16	To improve housing arrangement	Pig	No regulation in temperature for Piglets	-	Piglet Soothe Snooze Deck to reduce the mortality in piglets due to hypothermia and crushing injury by the dam	Scientific Livestock & Poultry farming methods at backyard and income generating activities	-	Method demonstration, scientist's visit, group discussion	Piglet Soothe Snooze Deck
17	To improve feeding efficiency	Pig	No creep feeding for piglets	-	Creep Feeder for Piglets	Utilizing resources optimally while rearing livestock & poultry		Method demonstration, scientist's visit, group discussion	Creep box and creep feeder
18	Drudgery reduction	Iron Revolving milking stool	More pain and low work efficiency	-	Iron revolving milking stool	Drudgery reduction technology		Method demonstration, field visit and monitoring	Stool supplied
19	Drudgery reduction	Kokcheng	More pain and low work efficiency	Assessment of Kokcheng	-	Drudgery reduction technology		Method demonstration cum field visit	Kokcheng Supplied

20	To reduce post harvest losses	Jackfruit chips	Low price and spoilage during peak season	-	Preparation jackfruit chips	Processing and value addition of jackfruits	-	Method demonstration, field visit	Supplied raw materials, spice, oil, Packaging materials
21	To reduce post harvest losses	Solar Drier	Inefficiency of traditional drying system	Assessment of Solar drier	-	-	-	Method demonstration, field visit	Supplied Solar drier
22	To increase table fish production	Pengba Fish	Low table fish production	**Assessment on Performance of Pengba fish in Polyculture system** T1- Stocking of IMC, Exotic carp and **Pengba** Fish, stocking density 8000 nos./ha, Catla 20%, Silver carp 10%, Rohu 30%, **Pengba** 10%, Mrigal 15% and Common carp 15%. T2 – Stocking of IMC, Exotic carp and **Pengba** Fish, stocking density 8000 nos./ha, Catla 20%, Silver carp 10%, Rohu 35%, **Pengba** 5%, Mrigal 15% and Common carp 15%. T3 – Fish culture with out **Pengba** fish.	-	**Pengba** fish culture in polyculture system	-	Scientist's visit, group discussion	Pengba Fish fingerling
23	In increase prawn and table fish production	Prawn Culture	Low table fish production	-	Popularizing polyculture of Giant fresh water Prawn (*Macro brachium rosenbergii*) with carps	Polyculture of Giant fresh water Prawn with carps		Method demonstration, scientist's visit, group discussion	Prawn fry

2 4	To increase table fish production	Carp culture	Low table fish production	-	Introduction of yearlings/Advanced fingerlings based carp culture for doubling farmers income	Yearlings/ Advanced fingerlings based carp culture for doubling farmers income	-	Method demonstration, scientist's visit, group discussion	Yearlings/Advanced fingerlings

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	-	-	-	-	2	-	-	-	-	2
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	1	-	-	-	-	-	-	-	-	1
Farm machineries										
Value addition		-	-	-		1	-	-	-	1
Integrated Pest Management	-	-	-	-	2	-	-	-	-	2
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
Soil Health Management	1	-	-	-	-	-	-	-	-	1
TOTAL	**2**				**5**	**1**				**8**

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-

Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

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

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

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

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	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-

Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

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	Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
1	Assessment on performance of Arka Vegetable special for correction of Boron deficiency in Cauliflower	Boron Deficiency in Cauliflower	Assessment on performance of Arka Vegetable Special for correction of Boron Deficiency in Cauliflower T1:Application of Arka Vegetable Special in Cauliflower @ 5g/lit of water as foliar spray along with application of NPK 74:50: 60 T2: Application of Borax@ 1g/lit of water along with application of NPK: 74:50:60 T2: Farmers practice(Application of only NPK: 74:50:60)	Cauliflower	16	Assessment	The Technology is found to be effective in terms of reducing the affect of Boron deficiency in Cauliflower at farmers field.	The Technology can be recommended for front line demonstration but the mass availability of the product is the major constrain.	T1:Application of Arka Vegetable Special in Cauliflower @ 5g/lit of water as foliar spray along with application of NPK 74:50: 60 T2: Application of Borax@ 1g/lit of water along with application of NPK: 74:50:60 T2: Farmers practice(Application of only NPK: 74:50:60) **BCR:** T1: 3.91 T2: 3.77 T2:3.38

2	Assessment of Root dipping in SSP-mc Slurry method of P management in transplanted rice growing areas of Khowai district	Phosphorus deficiency under acidic soils of Tripura	Assessment of Root dipping in SSP-mc Slurry method of P management in transplanted rice growing areas of Khowai district **Technology:** T1:Step-I:Root dipping of paddy seedling in soil-water slurry amended with SSP Step II: Root dipping of paddy seedling in soil water slurry amended with MC Step III: Broadcasting of RP @ 125kg/ha along with 50% Recommended dose of N &K in the main field T2: Farmers practice(Direct Transplanting of Paddy Seedling to the main field)	Paddy	10	Assessment	Farmers are satisfied with the adoption of the technology	The Technology is found to be effective in terms of Increasing the Paddy Yield as Well as in Increasing the available Phosphorus Status of the Soil.Thus it is taken for Front Line demonstration programme during the year 2021	T1:Step-I:Root dipping of paddy seedling in soil-water slurry amended with SSP Step II: Root dipping of paddy seedling in soil water slurry amended with MC Step III: Broadcasting of RP @ 125kg/ha along with 50% Recommended dose of N &K in the main field T2: Farmers practice(Direct Transplanting of Paddy Seedling to the main field) BCR: T1:2.31 T2: 1.96
3	Integrated Nutrient Manage	Poor nutrient management	T1: Vermicompost 1 t/ha + FYM 10t/ha + 75% Rd (80:60:80kg/ha) of NPK. The Entire quantity of	Colocasia	8	T1: Average yield 140 q/ha Wt of corms	-	-	T1:2.7 T2: 2.1

	ment in Colocasia		Vermicompost , FYM, P_2O_5, K_2O and Half quantity of the N is applied as Basal. Remaining quantity of N Splited in two parts , one applied at first earthing up (1 month after planting) and 2nd is applied at the time of 2nd earthing up (2 months after planting) T2: Farmers practice.			(g):20 No. of shoots/ plant: 2 Yield (q/ha) T2: Average yield: 110 q/ha, Wt of corms (g) :15 No. of shoots/ plant: 4			
4	Varietal Evaluation on Marigold	Less flower production in existing varieties	T1: Pusa Narangi T2: Local	Marigold	15	**T1: H (Cm):** 95.6 Branches/Pl: 5.6 Flower Dia(cm): 5.4 Yield (q/ha): 102.7 **T2: H (Cm)**:70.2 Branches/Pl: 3.82 Flower Dia(cm): 3.43 Yield (q/ha): 70	This variety performed well in the field but in the market it fetches less price in comparison with other improved variety due to its typical shape. The center of flower does not open properly	-	T1: 2.8 T2: 2.2

5	Assessment of ecofriendly management of tomato fruit borer	Fruit borer infestation	T1: (HaNPV@1.5x1012 OB ha^{-1}-*Btk*@1 kg ha^{-1}-Azadirachtin 1.2 EC@1000 ml ha^{-1}) T2: (HaNPV@1.5x1012 OB ha^{-1}-*Btk*@1 kg ha^{-1}-Spinosad@75g a.i. ha^{-1}) T_3: Control	Tomato	10	**Fruit damage %** T1:18 T2:12 T3:40 **Yield (q/ha)** T1: 210 T2: 270 T3: 95	Satisfactory	More awareness is needed on IPM	T1:2.50 T2:2.85 T3:1.36
6	Assessment and validation of IPM modules against papaya mealybug	Heavy infestation of mealy bug	M1: Cultural + Mechanical + Biological M2: Cultural + Mechanical + Biological + Chemical M3: Control	Papaya	10	**Mortality %** M1:65 M2:85 M3:10 **Yield (q/ha)** M1:287 M2:380 M3:25	Satisfactory	More awareness is needed on IPM	M1:3.18 M2:3.74 M3:1.18
7	Assessment on performance of Solar Drier	Inefficiency of traditional drying system	Performance of Solar Drier for drying of chips, mushroom, fruits	Solar drier	5	T1: Solar dryer: Capacity of drier 10 kg of drying products. The solar dryer has total collector area of 0.9902 m2 including	T2: Farmers practice traditional drying by expose on sun **Parameters : Drying time**- 16-20 hrs **Work efficiency-**	It was observed that for small scale food processing unit very good implements for drying of mushroom, ber, chips etc only it is difficult to run during	Solar drier BCR: 2.72 Farmer Practics BCR: 2.19

						0.5002 m2 of solar dryer area. The developed solar dryer can be used to heat air up to the range 45-60°C temperature needed for drying of the most of the agricultural and horticultural products. **Parameters:** **Drying Time**- 8-12hrs , 8kg raw mushroom to 1 kg dry mushroom **Work Efficiency-**	Products do not drying uniformly **Retention of Colour and Quality of products**- Reduce colour strength and it is not safe from outer environment dust	continous raining	

						Uniformly dry due to circulating air through fan **Retention of Colour and Quality of products-** improved Colour 25% and quality 20% get improved due to closed door protect outer dirt			
8	Assessment on performance of Kokcheng	More pain and low work efficiency	Performance of Kokcheng for reducing drudgery reduction	Kokcheng	10	Replaced instead of traditional ribbon which is made from tree bark, usually used in Kokcheng, it replaced by cotton	Farm women given feed back , they get very comfortable to carry firewood, bamboo shoot , other forest vegetables,	It was observed that , after working kokcheng they keep over smoke for prevention from termites damage	Kokcheng BCR: 2.50 Traditional Basket BCR: 1.67

						Ribbon with buckles which may adjusted according to comfortable , it reduced drudgery, increase work efficiency, further it is safe for used muscle injured.	even they used for marketing also		
9	Low cost Hydroponic device T1 *(Made of Bamboo & Aluminum tray)* *T2 (Made of Bamboo & Polythine)* *T3: Farmer's*	Less cultivation of nutritious fodder	Low cost Hydroponic device	Goat	6	1.Mortality of Kids upto weaning : Nil 2.Body weight gain at every fortnight upto 3 months of age First : 0.650 kg, 2nd:0.9kg, 3rd : 1.10g, 4th : 1.4kg, 5th : 1.6kg, 6th: 1.6kg **Farmer Practice:**	Financial Assistance for starting commercial goat farming required	To include the technology in package of practices of goat farming	Technology: 2.5 Farmer's Practice: 2.0

	Practice(Tree leaves and tethering at low nutritious fodder)					1.One 2. First : 0.6 kg, 2nd:0.8kg, 3rd : 0.95kg, 4th : 1.1kg, 5th : 1.3kg, 6th: 1.4kg			
10	T1: Rural Poultry Cage *Made of wood & CG leaf* *T2:* Rural Poultry Cage *Made of Bamboo & Aluminum Sheet* *T3: Farmer's Practice* Rural Poultry Cage*(Bamboo Cages*	*Poor housing arrangements for poultry*	Rural Poultry Cage	Poultry	6	Technology: 1. Chicks Mortality: 10% 2. Body wt gain 1st Month: 90g 2nd: 110g, 3rd: 125g 4th: 140g, 5th: 155g 6th: 150g 3. Spoilage of egg: Nil Farmer Practice: 1.20% 2. 1st Month: 70g 2nd: 90g, 3rd: 115g 4th: 120g, 5th: 130g 6th: 125g 3. 10%	Financial Assistance for starting commercial poultry farming required	To include the technology in package of practices of poultry farming	Technology: 2.84 Farmer's Practice: 2.26

	kept inside house)					Spoilage			
11	Assessment on Performance of Pengba fish in Polyculture system T1- Stocking of IMC, Exotic carp and Pengba Fish, stocking density 8000 nos./ha, Catla 20%, Silver carp 10%, Rohu 30%, Pengba 10%, Mrigal 15%	Low table fish production	Assessment on Performance of Pengba fish in Polyculture system	Pengba fish	**3**	**Table fish prod/ha** **Technology :** T1: 29.0 q/ha, Pengba growth 200 gm. T2: 30.0 q/ha, Pengba growth 250 gm. T3 Farmer's practice: 21.0 q/ha	Seedlings need to be available always	More assessment with more parameters to be done	T1:3.63 T2:3.75 T3:2.5

	and Common carp 15%. T2 – Stocking of IMC, Exotic carp and Pengba Fish, stocking density 8000 nos./ha, Catla 20%, Silver carp 10%, Rohu 35%, Pengba 5%, Mrigal 15% and Common carp 15%. T3 –								

	Fish culture without Pengba fish.								

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	Sesamum var. Tripura Siphing	Popularization of Sesamum var. Tripura Siphing	4	270	125
2	Toria var. Tripura Toria	Popularization of Toria var. Tripura Toria	5	150	112
3	Maize var. Disha 3502	Popularization of Lime and Bio Fertilizers on improvement of Soil Fertility status and on improvement of Yield of Maize	2	346	99
4	Jackfruit	Preparation of Jackfruits chips	14	105	NA
5	Milking stool	Revolving iron milking stool with stand	11	77	NA
6	Bitter gourd	Management of fruit fly in bitter gourd Pheromone traps @ 25 trap/ha + Gur based poison bait trap: (50 ml malathion + 200 g gur + 2 litre water).	4	60	18
7	Poultry	Rearing of upgraded poultry bird	30	350	NA
8	Poultry	Application of red spectrum of light to improve egg production	5	30	NA

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed / Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1.	Sesamum	Varietal Evaluation	Popularization of Sesamum var. Tripura Siphing	Summer, 2020	10	11	73	05	78	NA	Rainfed	307	13.9	159
2.	Toria	Varietal Evaluation	Popularization of Toria var. Tripura Toria	Rabi, 2020	10	10.5	53	6	59		Irrigated	314	12.7	161
3	Maize	Soil Amendment	Popularization of Lime and Bio Fertilizers on improvement of Soil Fertility status and on improvement of Yield of Maize	Rabi,2020	5	6.2	58	0	58	NA	Irrigated	304	15.3	168
4	Bottle gourd	Sex modificati	Spraying of Ethrel of at 2 and 4 true leaf	Nov 2020	1	1	5	5	10	NA	Rainfed		-	-

		on	stage along with the seed soaking in boron (0.05%) for 12 hours											
5	Ginger	Quality planting Material	Cultivation of ginger through Raising Seedling	-	1	1	5	5	10	NA	Rainfed	-	-	-
6	Jackfruit	Spoilage and low price during peak season	Prepare of jackfruits Chips in hot water blenching with 0.2% KMS for 3-4 mints	2020 April-May	10 nos.	11nos.	5	6	11	NA	-	-	-	-
7	Milking stool	More pain and low work efficiency	Iron revolving milking stool with stand	2020 ,July - Aug	10	10	10	0	10	NA	-	-	-	-
8	Bitter gourd	Heavy infestation of fruit fly	**Management of fruit fly in bitter gourd** Pheromone traps @ 25 trap/ha + Gur based poison bait trap: (50 ml malathion + 200 g gur + 2 litre water).	Rabi, 2020	2	2	4	6	10	Nil	Irrigated			
9	Mustard	Low production of honey and	Popularization of beekeeping in Enhancing Yield of Mustard Plants caged with	Rabi, 2020	2	2	3	2	5	Nil	Irrigated			

		mustard seed	bee hive (Nylon mosquito net cage of size 10x10x12 feet with a colony of *Apis cerana indica*)											

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	Sesamum	Varietal evaluation	11	8.5	5	41.18	10	7			29823.00	68000.00	38,177.00	2.28	25750.00	40000.00	14250.00	1.55
2	Toria	Varietal evaluation	10.5	9.5	7.5	19	10	9			27928.00	66500.00	38,572.00	2.38	26998.00	52,500.00	25,502.00	2.05
3	Maize	Soil Amendment	6.2	50	28	44	55	45			32989.00	90000.00	57011.00	2.72	29010.00	50,400.00	21,390.00	1.73
4	Bottle gourd	Production of low volume & high value	1	188.32	130.54	30.68	202.38	120.56	Days to first flower T1: 52	Days to first flower T2: 56 DAS	1,02,308	2,80,000	1,77,692	2.73	98652	210000	111348	2.13

		crop							days, Sex ratio (M/F): T1: 2.79;	Sex ratio (M/F): T2: 4.32								
5	Ginger	Quality planting Material	1	55.2	54.0		57	52	-	-	89600	270000	180400	3.01	151500	269800	118300	1.78
6	Bittergourd	IPM	2	90	48	45.65	110	70	-	-	167000	292490	125490	1.75	115000	165000	50000	1.43
7	Mustard	Beekeeping	2	8.5	5	41.17	10	7	-	-	36000	74520	38520	2.07	23650	31860	8210	1.34

***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 organized	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	4	4.03.2020,16.11.2020,6.11.2020,24.11.2020	101	125	226	Field Days Under FLD"s
2	Training Programme on Popularization of Sesamum	1	7.07.2020	4	22	26	FLD Under Agronomy
3	Media coverage		-	-	-	-	-
4	Training for extension functionaries	-	-	-	-	-	-

5	Any other (Pl. specify)	-	-	-	-	-	-
	Total	**5**		**105**	**147**	**252**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

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

I.	Pig	Housing	Piglet Soothe Snooze Deck to reduce the mortality in piglets due to hypothermia and crushing injury by the dam	10	10	60	1.Mortality of piglets upto weaning: Nil 2.Body weight gain at weaning:13 Kg 3.Wastage of feed: 5% 4.Incidences of piglet diarrhoea: Nil	1.Mortality of piglets upto weaning: Nil 2.Body weight gain at weaning: 13 Kg 3.Wastage of feed: 5% 4.Incidences of piglet diarrhoea: Nil	**(-) 10%** **118.18%** **(-) 5%** **(-) 30%**	-	-	51710	82700	30990	1.6	37060	39150	2090	1.06	

II.	Pig	Feed Management	Creep Feeder for Piglets	10	10	60	1.Mortality of piglets upto weaning: Nil 2.Body weight gain of piglets weaning: 13kg 3.Wastage of feed: 5% 4.Incidences of piglet diarrhoea **: Nil**	1.Mortality of piglets upto weaning: 10% 2.Body weight gain of piglets weaning: 11kg 3.Wastage of feed: 10% 4.Incidences of piglet diarrhoea **: 30%**	**(-) 10%** **118.18%** **(-) 5%** **(-) 30%**	-	-	52250	88400	36150	1.7	37060	42600	5540	1.15	

**** 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	
I.	Pengba Fish	Fishery	-	5	5	2500 fingerling	Table fish production: **30 q/ha**	Table fish production: **21 q/ha**	30.89 30.00	-	-	1802000.00	3705000.00	2003000.00	2.05	140625.00	252000.00	111375.00	1.79	
II.	Prawn Culture	Fishery	Popularizing polyculture of Giant fresh water Prawn (*Macrobrachium rosenbergii*) with carps	5	5	2500 fry	Prawn Production: **12.3 q/ha** Table fish Production : 29.5 q/ ha	Prawn Production: **8.5 q/ha** Table fish Production : 21.0 q/ ha	28.81	-	-	214805	442500	227695	2.06	175000	315000	140000	1.8	

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

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

(iv)Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR	
1	Jackfruit chips	Value addition	Preparation of Jack fruit chips	11	11	a)Sensory evaluation, b)crispiness, c) shelf life d) consumer demand	Shelf life, taste, color, market demand	42.86	Consumers acceptability 70%, market price, sale stress, increase shellfish 40-45 days Hedonic scale score obtain	Wast-etage, sale stress, consumer demand only 40%, It was observed based on 5 points Hedonic scale score obtain	--	--	-	-	-	-	-	-	Jackfruits chips prepared under treatment of KMS and blanching for the certain time it enhance improved the quality of chips-color, increase

									ed : colour (4), Taste (4), appearance (4), Flavour(4),	ed: color(2), taste (2), appearance(2), Flavour(2), shelf ife only 20-25 days									shelf life. Here we have use improve packaging materials, it design, labeling for better market.
2	Milking stool	Drudgery reduction	Revolving milking stool with stand	10	10	Back pain, milk lost, uncomfortable, safe milking,	Traditionally use, wooden stool, bare feet, without milking bucket stand	27% improved drudgery reduction , which increase 15% work efficiency											Require organise more awarenes ss programme and method demonstration

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

H-Highest recorded yield, L- Lowest recorded yield

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

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

3.3. Achievements on Training 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
				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)	(x + y)
I. Crop Production																						
Weed Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Nursery management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grading and standardizat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ion																						
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and management of Tuber Crops	2	0	2	14	0	5	0	19	0	17	0	7	0	23	0	31	0	12	0	42	0	42
b) Fruits																						
Training and Pruning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants																						
Nursery Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d) Plantation crops																						
Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

e) Tuber crops																						
Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f) Spices																						
Production and Management technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants																						
Nursery management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management																						

Soil fertility management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 Managemen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

t																						
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 managemen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

t																							
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	2	0	2	14	0	5	0	19	0	17	0	7	0	23	0	31	0	12	0	42	0	42	

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

Thematic area	**No. of 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***	
I. Crop Production																						
Weed Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Integrated Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery management	2	0	2	15	0	12	0	27	0	17	0	5	0	22	0	32	0	17	0	49	0	49
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Broccoli																							
Export potential vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b) Fruits																							
Training and Pruning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	2	0	2	10	0	5	0	15	0	15	0	10	0	25	0	25	15	40	0	40	0	40	
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Export potential fruits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants																						
Nursery Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d) Plantation crops																						
Production and Managemen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

t 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	5			53		23		76		36		8		44		89		31		120		120
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Soil and Water Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management																							
Dairy Management	1	0	1	0	0	0	0	0	0	18	0	24	0	42	0	18	0	24	0	42	0	42	
Poultry Management	1	0	1	0	0	0	0	0	0	7	0	4	0	11	0	7	0	4	0	11	0	11	
Piggery Management	1	0	1	12	0	16	0	28	0	5	0	9	0	14	0	17	0	25	0	42	0	42	
Rabbit Management	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Disease Management	1	0	1	0	0	0	0	0	0	23	0	28	0	51	0	23	0	28	0	51	0	51	
Feed management	1	0	1	11	0	0	0	11	0	1	0	0	0	1	0	12	0	0	0	12	0	12	
Production of quality animal products	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V Home Science/Women empowerment																							
Household food security by	2	0	2	14	0	09	0	23	0	0	0	23	0	23	0	14	0	32	0	46	0	46	

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 empowerme	3	0	4	0	0	47	0	47	0	0	0	18	0	18	0	0	0	65	00	65	0	65

nt of rural Women																						
Location specific drudgery reduction technologies	2	0	2	0	0	0	0	0	0	14	0	16	0	16	0	14	0	16	0	30	0	30
Mushroom Production	1	0	1	3	0	2	0	5	0	11	0	6	0	17	0	14	0	8	0	22	0	22
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	5	-	5	71	-	18	-	89	-	39	-	9	-	48	-	110	-	27	-	137	-	137
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	1	0	1	10	0	0	0	10	0	2	0	0	0	2	0	12	0	0	0	12	0	12
Carp fry and fingerling rearing	1	0	1	0	0	0	0	0	0	8	0	12	0	20	0	8	0	12	0	20	0	20
Composite fish culture	1	0	1	0	0	0	0	0	0	10	0	2	0	12	0	10	0	2	0	12	0	12
Hatchery management and culture of freshwater prawn	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Breeding and culture of ornamental fishes	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portable plastic carp hatchery	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Edible oyster	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-

farming																						
Pearl culture	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site																						
Seed Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of fry and	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

fingerlings																							
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics																							
Leadership development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Entrepreneurial developmen	1	0	1	0	0	0	0	0	0	13	0	13	0	26	0	13	0	13	0	26	0	26	

t of farmers/youths																						
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry																						
Production technologies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	31	0	27	199	0	132	0	331	0	219	0	187	0	392	0	418	15	344	0	737	0	737

(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**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	On (1)	**Sp On ***	**Total (1+**	**On (4)**	**Sp. On (5)**	**On (6)**	**Sp. On (7)**	**On (a=4+**	**Sp. On (b=5+7**	**On (8)**	**Sp. On (9)**	**On (10)**	**Sp. On (11**	**On (c=8+1**	**Sp. On (d=9+1**	**On (4+8)**	**Sp. On (5+**	**On (6+10)**	**Sp. On (7+1**	**On (x = a**	**Sp. On (y=b**	**(x + y)**

		(2)	**2)**					**6)**	**)**				**)**	**0)**	**1)**		**9)**		**1)**	**+c)**	**+d)**	
Mushroom Production																						
Bee-keeping	1	-	1	16	-	3	-	19	-	5	-	5	-	10	-	21	-	8	-	29	-	29
Integrated farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

machinery and implements																						
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Planting material production	1	0	2	7	0	0	0	7	0	16	0	0	0	16	0	23	0	0	0	23	0	23
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	0	1	6	0	6	6	6	0	6	0	1	0	7	0	12	0	1	0	13	0	13
Freshwater prawn culture	1	0	1	9	0	0	0	9	0	4	0	0	0	4	0	13	0	0	0	13	0	13
Freshwater prawn culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrimp farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fish harvest and processing technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small scale processing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Harvest	0	1	1	0	0	0	13	0	13	0	0	0	9	0	9	0	0	0	22	0	22	22

Technology																						
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	4	1	6	38	0	9	19	41	13	31	0	6	9	37	9	69	0	9	22	78	22	100

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

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

Thematic area	**No. of 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	4	-	4	42	-	18	-	60	-	18	-	22	-	40	-	60	-	40	-	100	-	100
Integrated farming	1	0	1	20	0	2	0	22	0	12	0	5	0	17	0	32	0	7	0	39	0	39
Seed production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Integrated Farming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial fruit production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flower production	2	0	2	19	0	3	0	22	0	12	0	15	0	27	0	31	0	18	0	49	0	49
Planting material production	1	0	1	10	0	7	0	17	0	11	0	0	0	11	0	21	0	7	0	28	0	28

Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	1	0	1	15	0	11	0	26	0	23	0	46	0	69	0	38	0	57	0	95	0	95
Dairying	1	0	1	0	0	0	0	0	0	11	0	13	0	24	0	11	0	12	0	24	0	24
Sheep and goat rearing	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quail farming	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piggery	1	0	7	9	0	7	0	16	0	7	0	2	0	9	0	16	0	9	0	25	0	25
Rabbit farming	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry production	1	0	1	0	0	0	0	0	0	5	0	20	0	25	0	5	0	20	0	25	0	25
Ornamental fisheries	1	0	1	1	0	0	0	1	0	6	0	0	0	6	0	7	0	0	0	7	0	7
Para vets	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Para extension workers	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	0	1	8	0	1	0	9	0	1	0	0	0	1	0	9	0	1	0	10	0	10

Freshwater prawn culture	1	0	1	0	0	0	0	0	0	8	0	4	0	12	0	8	0	4	0	12	0	12
Shrimp farming	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cold water fisheries	1	0	0	6	0	15	0	21	0	2	0	4	0	6	0	8	0	19	0	27	0	27
Fish harvest and processing technology	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fry and fingerling rearing	1	0	1	0	0	0	0	0	0	19	0	3	0	22	0	19	0	3	0	22	0	22
Small scale processing	1	0	1	9	0	6	0	15	0	3	0	2	0	5	0	12	0	8	0	20	0	20
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production of Organic Inputs	3	-	-	-	-	-	-	-	-	25		30		55		25		30		55		55
Soil Testing	2			4		2		6		37		4		41		41		6		47		47

TOTAL	23	0	23	143	0	72	0	215	0	200	0	170	0	370	0	343	0	241	0	585	0	585

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	2	-	2	8	-	12	-	20	-	24	-	3	-	27	-	32	-	15	-	47	-	47
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	1	0	1	4	0	0	0	4	0	13	0	0	0	13	0	17	0	0	0	17	0	17
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Socio economic development of farming community through horticultural operation	1	0	1	5	0	0	0	5	0	13	0	4	0	17	0	18	0	4	0	22	0	22
Off Season vegetable production	1	0	1	3	0	2	0	5	0	7	0	4	0	11	0	10	0	6	0	16	0	16
Total	5	0	5	20	0	14	0	34	0	57	0	11	0	68	0	77	0	25	0	102	0	102

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	**No. of Trainings**	**Participants**	**Grand**

area	(Courses)																					Total
				General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	1	0	1	12	0	0	0	12	0	13	0	0	0	13	0	25	0	0	0	25	0	25
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	0	1	0	0	0	0	0	0	10	0	8	0	18	0	18	0	0	0	18	0	18
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil & Water Conservation	2									27		3		30		27		3		30		30
TOTAL	4	0	2	12	0	0	0	12	0	50	0	11	0	61	0	70	0	3	0	73	0	73

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**
Home Sc	Processing and Value addition	Post harvest processing, packaging of fruits and vegetables for self employment	24.9.2020 - 30.9.2020	7days	KVK, Campus	RY	0	13	13	0	9	9	0	22	22
Horticulture	Propagati	Hi tech Propagation of major	11th -12th September	1	KVK,	RY	**7**	**0**	**7**	**16**	**0**	**16**	**23**	**0**	**23**

	on	horticultural crops	, 2019		Campus										
Horticulture	Tuber crops	Production and management technology of tuber drops	23-24 September , 2019	2	Gakul nagar	F&FW	**7**	**0**	**7**	**8**	**3**	**11**	**15**	**3**	**18**
Horticulture	Tuber crops	Production and management technology of tuber drops	4th August, 2020	1	kamalnagar	F&FW	**7**	**5**	**12**	**9**	**4**	**13**	**16**	**9**	
Horticulture	Horticulture	Socio economic Development of farming community through horticultural intervention	2nd- 3rd December , 2020	2	KVK, Campus	EP	5	0	5	13	4	17	18	4	22
Horticulture	Vegetable	Off season vegetable cultivation	14th December , 2020	1	KVK, Campus	EP	3	2	5	7	4	11	10	6	16
Plant Protection	Beekeeping	Scientific beekeeping	11.11.2020-13.11.2020	3	KVK	RY	16	3	19	5	5	10	21	8	29
Plant Protection	Pest management	Low cost bait preparation	15.9.2020 - 16.9.2020 & 19.10.2020-20.10.2020	2	KVK	EP	8	12	20	24	3	27	32	15	47

Animal Science	Livestock Management	Extension service, voluntary work and public service through livestock related activities	12th -13th November , 2020	2	KVK	**EF**	4	0	4	13	0	13	17	0	17
Fisheries	Fish Management	Recent advances in aquaculture	25th -26th November , 2020	2	KVK	RY	9	0	9	4	0	4	13	0	13
Fisheries	Fish Management	Recent advances in aquaculture	9th -10th December , 2020	2	KVK	RY	6	0	6	6	1	7	12	1	13

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	Production of Organic Input	Preparation of Vermicompost as a source of Income Generation	04.01.2020-06.01.2020	3	Durgapur Village Under **Kalyanpur Block**	**Farmer & Farm women**	29	9	38	6	3	9	35	12	47
Soil Science	Production of Organic Input	Preparation of Panchyagavya & its utilization in Agriculture & Horticulture	17.01.2020-18.01.2020	2	Nabakumar Hrankhawl Para ADC Village under Teliamura Block	Rural Youth	0	0	0	8	1	9	8	1	9

Soil Science	Production of Organic Input	Preparation of Panchyagavya & its utilization in Agriculture & Horticulture	24.01.2020-27.01.2020	3	Ganki Village Under Khowai Block	**Farmer & Farm women**	6	13	19	2	1	3	8	14	22
Soil Science	Production of Organic Input	Preparation of Vermicompost as a source of Income Generation	6.06.2020 - 9.06.2020	3 Days	Kunjaban Village Under Kalyanpur Block	**Farmer & Farm women**	14	1	15	0	0	0	14	1	15
Soil Science	Production of Organic Input	Preparation of Vermicompost as a source of Income Generation	26.08.2020-28.08.2020	3 Days	North Ghilatali Village under Kalyanpur Block	**Farmer & Farm women**	4	0	4	8	0	8	12	0	12
Soil Science	Soil Testing	Hand Hold Training on Soil Testing	1.09.2020 - 2.09.2020	2 Days	East RC Ghat Village Under	Rural Youth	4	2	6	12	2	14	16	4	20
Soil Science	Production of Organic Input	Preparation of Panchyagavya & its utilization in Agriculture & Horticulture	06.10.2020-7.10.2020	2 Days	Duski ADC Village Under Teliamura Block	Rural Youth	0	0	0	12	24	36	12	24	36
Soil Science	Soil & Water Conservation	Advance Soil & Water Conservation Techniques for better management of natural resources	12.10.2020-14.10.2020	3 Days	North Pulinpur ADC Village under Teliamura Block	Extension Personals	0	0	0	8	1	9	8	1	9

Soil Science	Production of Organic Input	Preparation of Panchyagavya & its utilization in Agriculture & Horticulture	3.11.2020 - 4.11.2020	2 Days	North Pulinpur ADC Village under Teliamura Block	**Farmer & Farm women**	0	0	0	20	4	24	20	4	24
Soil Science	Production of Organic Input	Preparation of Panchyagavya & its utilization in Agriculture & Horticulture	11.11.2020- 12.11.2020	2 Days	Nabakumar Hrankhawl Para ADC Village under Teliamura Block	Rural Youth	0	0	0	5	6	11	5	6	11
Soil Science	Soil Testing	Hand Hold Training on Soil Testing	19.11.2020- 20.11.2020	2 Days	North Pulinpur ADC Village under Teliamura Block	Rural Youth	0	0	0	25	2	27	25	2	27
Soil Science	Soil & Water Conservation	Advance Soil & Water Conservation Techniques for better management of natural resources	23.11.2020- 24.11.2020	2 Days	Nayanpur Village under Teliamura Block	Extension Personals	0	0	0	19	2	21	19	2	21
Horticulture	Flower	Scope of Flower production	6th -7th November, 2020	2	Sonatala	RY	9	3	12	10	5	15	19	8	27
Horticulture	Flower	Scope of Flower production	26th -27th August, 2019	2	Jambura	RY	10	0	10	2	10	12	10	12	222
Horticulture	Propagati	Hi tech Propagation of major	11th -12th September	2	Shantinagar	RY	10	7	17	11	0	11	21	7	28

	on	horticultural crops	, 2020													
Horticulture	Orchard	Orchard Management	8th- 9th September , 2020	2	Hrangkhawl para	F&FW	0	0	0	15	10	25	15	10	25
Horticulture	Orchard	Orchard Management	14th- 15th September , 2020	2	R.C Ghat	F&FW	10	5	15	0	0	0	10	5	15
Horticulture	Nursery	Nursery Raising technique	17th – 18th August, 2020	2	North Chebri	F&FW	12	8	20	7	5	12	19	13	32
Horticulture	Nursery	Nursery Raising technique	27th – 28th August, 2020	2	Karailong	F&FW	3	4	7	10	0	10	13	4	17
Home Sc	Mushroom	Mushroom production technology for self employment	15.7.2020 - 16.7.2020	2	Dhalabil, Khowai	F/FW	3	2	5	11	6	17	14	8	22
Home Sc	Mushroom	Mushroom Production Technology for women empowerment	17.8.2020 - 20.8.2020	3	Karailong, Teliamura	FW	0	18	18	0	1	1	0	19	19
Home Sc	Value addition	Seasonal fruits and vegetables processing, preservation and value addition for self employment	21.8.2020 - 22.8.2020	2	South Ganki	FW	0	16	16	0	12	12	0	28	28
Home Sc	Value addition	Seasonal fruits and vegetables processing, preservation and value addition for	25.8.2020 - 26.8.2020	2	Ghilatali bazar	FW	0	13	13	0	5	5	0	18	18

		women empowerment													
Home Sc	Nutrition garden	Nutritional gardening for food security for nutritional thali for women health	22.9.2020 - 23.9.2020	2	Maiganga	FW	0	9	9	0	22	22	0	31	31
Home Sc	Entrepre neurship	Income generation through Entrepreneurship development	21.10.2020	1	Pulinpur	F/FW	0	0	0	13	13	26	13	13	26
Home Sc	Drudgery reduction	Drudgery reduction Techniques for farm women	4.4.2020	1	Duski	F/FW	0	0	0	12	7	19	19	0	19
Home Sc	Fish	Preparation shidal fish and value addition of fish	13.10.2020- 16.10.2020	4	Navakumar Hrangkhawl para	F/FW	0	0	0	9	12	21	9	12	21
Home Sc	Value addition	Seasonal fruits and vegetables processing, preservation, and value addition for self employment	7.7.2020-9.7.2020	3	North Chebri	RY	9	6	15	3	2	5	12	8	20
Home Sc	Drudgery reduction	Drudgery reduction technology for Farm women	11.11.2020	1	Hrangkhawl para	F/FW	0	0	0	2	9	11	2	9	11
Plant Protection	IPM	Integrated management of summer and winter vegetables	11.5.2020 - 12.5.2020, 20.5.2020 - 21.5.2020, 8.6.2020-	2	R.C. Ghat, Chebri. Ratia, Kalyanpur, Ganki	F & FW	71	18	89	39	9	48	110	27	137

			9.6.2020, 7.7.2020-8.7.2020, 23.9.2020 - 24.9.2020												
Plant Protection	Beekeeping	Scientific beekeeping	24.6.2020 - 25.6.2020, 26.8.2020 - 27.8.2020, 25.11.2020- 26.11.2020, 15.12.20 20- 16.12.2020	2	Teliamura, Pulinpur, Batapora, Singhicherra	RY	42	18	60	18	22	40	60	40	100
Animal Science	Livestock Management	Livestock and Poultry based IFS	21st -22nd August, 2020	2	West Ghilatali	Farmer & Farm women	11	0	11	1	0	1	12	0	12
Animal Science	Livestock Management	Livestock and Poultry based IFS	25th -26th August, 2020	2	North Ghilatali	Farmer & Farm women	0	0	0	7	4	11	7	4	11
Animal Science	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	4th- 5th September, 2020	2	Hrangkhalpara	RY	0	0	0	11	13	24	11	13	24
Animal	Livestock	Reducing production cost in	14th- 15th September	2	West Ganki	Farmer & Farm	12	16	28	5	9	14	17	25	42

Science	Management	livestock & Poultry rearing	, 2020			women									
Animal Science	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	18th -19th September, 2020	2	Jambura	RY	9	7	16	7	2	9	16	9	25
Animal Science	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	22nd -23rd September, 2020	2	Mungiyakami	RY	0	0	0	5	20	25	5	20	25
Animal Science	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	25th -26th September, 2020	2	Maiganga	RY	15	11	26	23	46	69	38	57	95
Animal Science	Livestock Management	Reducing production cost in livestock & Poultry rearing	5th-6th October, 2020	2	Duski	Farmer & Farm women	0	0	0	23	28	51	23	28	51
Animal Science	Livestock Management	Utilizing resources optimally while rearing livestock & poultry	7th- 8th October, 2020	2	North Pulinpur	Farmer & Farm women	0	0	0	18	24	42	18	24	42
Animal Science	Livestock Management	Extension service, voluntary work and public service through livestock related activities	19th -20th October, 2020	2	Sonatala	EF	12	0	12	13	0	13	25	0	25
Animal Science	Livestock Manage	Livestock and Poultry based IFS	6th -7th November, 2020	2	South Durgapur	RY	20	2	22	12	5	17	32	7	39

	ment														
Fisheries	Fish Management	Integrated fish farming	21st -22nd August, 2020	2	Dhalabil	RY	8	1	9	1	0	1	9	1	10
Fisheries	Fish Management	Carp fry and fingerling rearing	24th -25th August, 2020	2	West Ghilatali	Farmer & Farm women	10	0	10	2	0	2	12	0	12
Fisheries	Fish Management	Carp fry and fingerling rearing	26th -27th August, 2020	2	North Ghilatali	RY	0	0	0	8	4	12	8	4	12
Fisheries	Fish Management	Composite fish culture	28th -29th August, 2020	2	Natun Tablabari	Farmer & Farm women	0	0	0	10	2	12	10	2	12
Fisheries	Fish Management	Integrated fish farming	14th -15th September, 2020	2	Ganki	RY	6	15	21	2	4	6	8	19	27
Fisheries	Fish Management	Biofloc fish farming	14th -15th October, 2020	2	Khowai	RY	1	0	1	6	0	6	7	0	7
Fisheries	Fish Management	Integrated fish farming	16TH -17TH October, 2020	2	Hrangkhalpara	Farmer & Farm women	0	0	0	8	12	20	8	12	20
Fisheries	Fish Management	Fresh Water Crustasean culture	3rd -4th November, 2020	2	Duski	RY	0	0	0	19	3	22	19	3	22
Fisheries	Fish Management	Integrated fish farming	4th -5th December, 2020	2	Duski	EP	0	0	0	10	8	18	10	8	18

(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	
Fermented fish	19.2.19 - 29.29.2.	4days	Fish processing	Vocational Training on Preparation of Shidal Fish for employment	0	0	0	9	12	21	9	12	21	Fermented fish	1	3	10,000.00- 12,000.00	No

				generation														

*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		
0n	F & FW	3.12.2020-5.12.2020	3 Days	Home Science	Mushroom	Mushroom production	0	0	0	11	1	12	11	1	12	DM & Collector, Khowai	Rs. 34920.00
On	RY	24.9.2020-30.9.2020	7 days	Home Sc	Mushroom	Mushroom production	0	13	13	0	9	9	0	22	22	T-SAMETI	42,000.00
On	RY	10.02.2020 – 16.02.2020	7 days	Animal Sc	Poultry	Skill development training on poultry rearing and management	2	0	2	11	2	13	13	2	15	MANAGE	42,000.00

On	F & FW	14.12.2020 – 18.12.2020	3 Days	Plant protection	Bee keeping	Poverty elevation and empowerment of local people of border area through bee keeping	4	0	4	5	19	24	9	19	28	DM & Collector, Khowai	Rs. 195896.00
On	Input Dealers	Date	12 days	Plant protection	Insecticide Management	Insecticide Management for input dealers	38	1	39	10	1	11	48	2	50	NIPHM	Rs. 372400.00
Total							**44**	**14**	**58**	**37**	**32**	**69**	**81**	**46**	**127**		

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	Weather , Sanitary & phyto sanitary, Soil & Water, disease & pest of plant and livestock, nutrition, livestock & Poultry, mushroom, aquaculture, bee keeping, marketing, processing and value addition	-	531	785	**355**	**1140**	**987**	**380**	**1367**	**-**	**-**	**-**	**1772**	**735**	**2507**

2.	Diagnostic visit	Soil & Water health, disease & pest of plant and livestock, nutrition, livestock & Poultry production and management, mushroom production, aquaculture, bee keeping, processing and value addition, management of major field crops, fruits, vegetables, spices and plantation crops	2.1.2020,24.02.2020, 13.03.2020,16.03.2020, 23.04.2020,5.05.2020 ,21.5.2020, 26.05.2020,3.06.2020 ,7.07.2020, 6.07.2020,17.07.2020 ,18.07.2020, 23.07.2020,27.07.2020,10.08.2020, 11.08.2020,21.08.2020,22.08.2020, 1.09.2020,3.09.2020, 4.09.2020,5.09.2020, 9.09.2020,23.09.2020 ,7.10.2020,12.10.2020 19.10.2020,14.10.2020,20.10.2020,21.10.2020, 12.11.2020,23.11.2020,27.11.2020,4.12.2020, 7.12.2020,9.12.2020, 14.12.2020,17.12.2020,23.12.2020, 26.12.2020	41	**101**	**32**	**133**	**122**	**30**	**152**	**-**	**-**	**-**	**223**	**62**	**285**
3.	Field day	HYV of Sesamum, SRI, HYV of Mustard, Organic Farming	4.03.2020,16.11.2020 ,6.11.2020,24.11.2020	**4**	**70**	**31**	**101**	**92**	**33**	**125**	**-**	**-**	**-**	**162**	**125**	**226**
4.	Group Discussion	INM, IPM, IDM, Group mobilization, processing and	24.1.2020,6.2.2020, 3.6.2020,9.6.2020, 10.7.2020,4.11.2020,	**10**	**46**	**22**	**68**	**89**	**23**	**112**	**-**	**-**	**-**	**135**	**45**	**180**

		value addition, GKMS	21.05.2020,30.04.2020,16.04.2020,5.6.2020													
6	Kishan Mela	Nutritional Security	**17.09.2020**	**1**	**16**	**4**	**20**	**28**	**15**	**43**	**-**	**-**	**-**	**44**	**19**	**63**
5.	Film show	INM, IPM, IDM, Group mobilization, processing and value addition, GKMS	12.2.2020,2.6.2020, 9.8.2020, 29.8.2020,5.12.2020	5	76	49	125	68	22	90	-	-	-	144	71	215
6.	Farmers Visit to KVK	Weather , Sanitary & phyto sanitary, Soil & Water, disease & pest of plant and livestock, nutrition, livestock & Poultry, mushroom, aquaculture, bee keeping, marketing, processing and value addition	1.1.2020-31.12.2020	395	138	39	177	375	57	432	-	-	-	513	96	609
7.	Exhibition	Women Empowerment	8.3.2020	1	32	29	61	75	37	112	-	-	-	107	66	173
8.	Scientists visit to farmers fields	Soil & Water health, disease & pest of plant and livestock, nutrition, livestock & Poultry production and management, mushroom production, aquaculture, bee keeping, processing	1.1.2020-31.12.2020	131	251	150	401	356	252	608	-	-	-	606	402	1008

		and value addition, management of major field crops, fruits, vegetables, spices and plantation crops														
9.	Plant/ Animal Health camp	Plant & Animal Health Management	26.05.2020,18.12.2020	2	14	8	22	20	6	26	-	-	-	34	14	48
10.	Ex-trainee Sammelan	Agriculture & allied activities	7.2.2020	1	8	2	10	24	7	31				32	9	41
11.	Farmers seminar/ workshop	Agriculture & allied activities	28.1.2020,13.8.2020, 25.08.2020	3	28	20	48	26	55	81	-	-	-	54	75	129
12.	Method demonstration	Agriculture & allied activities	9.6.2020,16.7.2020,25.11.2020,	3	6	7	13	18	11	29	-	-	-	24	18	42
13.	Celebration of important days	World Soil Card Day, World Womens Day, World Enviornment Day, National Unity Day, World Food Day, Constitution Day, World Soil Day	19.2.2020,8.3.2020, 5.6.2020,15.10.2020, 17.10 .2020,31.10.2020,26.11.2020,5.12.2020,30.12.2020	9	103	55	158	223	64	287	-	-	-	326	119	445
14.	Exposure visits	Gaining hands on knowledge and skills	18.01.2020,21.1.2020 ,29.09.2020	3	71	25	96	102	27	129	-	-	-	173	52	225
15.	Farmer-Scientist interaction	Doubling of Famer's income in regard to Field crop, horticulture, processing and value addition	12.2.2020,29.8.2020, 19.11.2020,	3	26	1	27	119	2	121	-	-	-	145	3	148
16.	Electronic media	Published in	1.1.2020-31.12.2020	9	-	-	-	-	-	-	-	-	-	-	-	-

	(CD/DVD)	Information and Cultural Department, Govt. of Tripura														
17.	Extension literature	Activities of KVK Khowai during the Covid 19 lockdown period	1.1. 2020-31.12.2020	1	-	-	-	-	-	-	-	-	-	-	-	-
18.	Newspaper coverage	News published in Dainik Sambad, Syandan Patrika,	1.1. 2020-31.12.2020	38	-	-	-	-	-	-	-	-	-	-	-	-
19.	Case Study	Published in Agriculture Update	1.1. 2020-31.12.2020	1	-	-	-	-	-	-	-	-	-	-	-	-
20.	Leaflet/Folders	Integrated management of pest and diseases of brinjal and cucurbits	1.1. 2020-31.12.2020	2	-	-	-	-	-	-	-	-	-	-	-	-
21.	TV talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.	Training manual	Training Mannual on Management of Insect Pest and Diseases	1.1. 2020-31.12.2020	1	-	-	-	-	-	-	-	-	-	-	-	-
23.	Review Paper	Published in Innovative Farming	1.1. 2020-31.12.2020	1	-	-	-	-	-	-	-	-	-	-	-	-
24.	Research Article	Indigenous Traditional Tools & implements used in Agriculture & allied sector in Tripura. Weed Survey in Different fields of transplanted rice area under Khowai	1.1. 2020-31.12.2020	2	-	-	-	-	-	-	-	-	-	-	-	-

		District of Tripura.														
25.	Soil health camp	Soil Health Management	10.01.2020,14.09.2020	2	100	66	166	192	33	225				292	99	391
26.	Awareness camp	Agriculture & allied activities	9.7.2020,14.8.2020, 14.09.2020,17.09.2020,27.10.2020,28.10.2020 29.10.2020,31.10.2020,2.11.2020,3.11.2020,19.11.2020,3.11.2020,5.12.2020	13	985	388	1373	1050	555	1605				2035	943	2978
27.	Lecture delivered as resource person	Agriculture & allied activities	10.1.2020,21.1.2020, 22.1.2020, 18.1.2020,7.2.2020	5	68	49	117	73	46	119				141	95	236
28.	PRA	PRA at DFI village	5.11.2020	1	20	18	38	23	12	35				43	30	73
29.	Soil test campaign	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30.	Mahila Mandal Convener meet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.	Others(Input Distribution)	(Input Distribution during Farmers Club Convenors Meet, SHG Convenors Meet)	1.1. 2020-31.12.2020	14	159	139	298	75	50	125	-	-	-	234	189	423
Grand Total				**1234**	**3103**	**1489**	**4592**	**4137**	**1717**	**5854**				**7239**	**3267**	**10445**

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	Paddy	Gomati	63.1	110968.00	140	2	455	5	602
OILSEEDS	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	-	-	-
VEGETABLES	Tps tuberlet	HPS II/67	6.5	49128.00	9	1	38	4	52
	Colocasia	Muktakeshi	0.475	1579.00	1	-	-	-	1
FLOWER CROPS	-	-	-	-	-	-	-	-	-
OTHERS (Specify)	Dhaincha	Local	1	10000.00	-	-	53	-	53
Seed produced at farmers field									
Cereals	Paddy	Gomati	490	882000.00	-	-	-	-	NA
Oilseeds	Sesamum	Tripura siphing	50	400000.00	-	-	-	-	NA
	Ground Nut	ICGS 76	20	880000.00	-	-	-	-	NA
Pulses	Field pea	Prakash	150	750000.00	-	-	-	-	NA
Vegetables	Tps tuberlet	HPS II/67	19.5	150000.00	-	-	-	-	NA

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	603.1	602.1	1392968.00	140	2	455	5	602
2	OILSEEDS	70	70	1280000.00	-	-	-	-	NA
3	PULSES	150	150	750000.00	-	-	-	-	NA
4	VEGETABLES	85.475	84.875	200707	10	1	38	4	53
5	FLOWER CROPS	-	-	-	-	-	-	-	-
6	OTHERS								
	i. DHAINCHA	1	0.9	10000.00	-	-	53	-	53
TOTAL		**909.575**	**907.875**	**3633675.00**	**150**	**3**	**546**	**9**	**655**

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

Major group/class	Crop	Variety	Quantity (In No.) produced	Quantity (In No.) supplied	Value (Rs.) of quantity produced	Number of recipient/ beneficiaries				
						General		SC/ST		Grand Total
						M	F	M	F	
Fruits	Mango graft saplings	Amrapali	60	38	3000.00	7	-	2	-	9
	Papaya seedlings	RCTP 8 , Tripura papita	10400	9242	156000.00	250	50	80	30	410

	Litchi air layered saplings	Bombay	94	31	4230.00	7	1	4	1	13
	Coconut seedlings	West coast , Kanchanpuri	144	120	7920.00	9	-	5	-	14
	Areca nut seedlings	Local	689	335	8268.00	5	-	5	-	10
	Sweet orange air layered saplings	Valencia , Nagpuri santra	61	17	2440.00	4	1	6	-	11
	Lemon cuttings saplings	Gandharaj	560	320	8400.00	32	3	28	2	65
	Pineapple suckers	Kew ,Queen	1500	1300	4520.00	1	-	-		1
	Banana suckers	G 9 , Sapri	200	63	3000.00	4	-	4	-	8
Spices	Ginger cuttings	Nadia	10200	4432	30600.00	3	-	1	-	4
	Chilli seedlings	NS 203	2500	2022	3750	20	4	16	1	41
Ornamental Plants	Marigold seedlings	Inca	10	10	100.00	1	-	-	-	1
	Marigold seedlings	Yellow 307	100	100	1000.00	1	-	-	-	1
	Marigold seedlings	Pusa narangi	14000	11896	21000.00	25	4	27	3	59
	Stock seedlings	Ten week	100	100	500.00	1	-	-	-	1
	French marigold seedlings	Sparky	20	10	40.00	1	-	-		1
	Antirhinium seedlings	California mix	1000	700	2000.00	10	3	5	2	20
	Nasturtium seedlings	Whirlbird mix	30	30	150.00	1	-	-	-	1
	Gerbera seedlings	Sunflo mix	100	100	500.00	1	-	-	-	1
	Sunflower seedlings	Tall hybrid	20	20	100.00	1	-	-	-	1
	Gillardia	Mixed colour hybrid	20	20	100.00	1	-	-	-	1

	Chrysanthemum seedlings	Double mix	30	30	150.00	1	-	-	-	1
	Dahlia seedlings	Early bird	10	10	50.00	1	-	-	-	1
VEGETABLES	Tomato seedlings	Trishul , TO 1458 ,Keshave	20000	17784	30000.00	96	30	64	20	210
	Cauliflower seedlings	NS 555, Candid charm	8100	8083	16200.00	19	10	35	10	74
	Capsicum seedlings	NS 292	1200	771	7200.00	18	10	13	10	51
	Red cabbage seedlings	Red jewel	2700	2569	4050.00	20	11	11	10	52
	Brinjal seedlings	Bhangor giant	4500	42688	6750.00	33	10	31	11	85
	Iceburg seedlings	NS 1451	800	798	1200.00	14	1	11	1	24
	Knol khol seedlings	Winner , Early white	4400	4293	4400.00	20	10	6	10	46
	Broccoli seedlings	Green magic	3000	2991	9000.00	31	11	9	10	61
Forest Spp.	-	-	-	-	-	-	-	-	-	-
Plantation crops	-	-	-	-	-	-	-	-	-	-
Medicinal plants	-	-	-	-	-	-	-	-	-	-
OTHERS (Pl. Specify)	Tapioca cuttings	Shree vijaya	600	600	900.00	1	-	-	-	1

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										
Vermicompost	**KVK,**	***Eudrilus***	**-**	**12**	**12000**	**-**	**-**	**-**	**-**	**-**

	Vermicompost	***Euginea***								
BIOFERTILIZERS	-	-	-	-	-	-	-	-	-	-
BIO PESTICIDES	-	-	-	-	-	-	-	-	-	-
	Trichoderma	***Viridae***	**-**	**0.97**	**3880**	**42**	**8**	**38**	**3**	**91**
Other										
Mushroom Spawn		Pl. Sajarkaju		16.95	135640.00	15	10	70	30	125
Value added products	**Squash**	-	-	57 lit	11400	30	15	23	14	82
	Mango leather	-	-	0.07	1750	7	5	10	6	28
	Pickle	-	-	0.67	13480	15	7	12	9	43
	Jelly	-	-	0.19	3900	4	17	3	5	29
	Honey	*Apiscerana indica*	-	25 kg	15000	15	12	23	9	59

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**	**White Yorkshire and Landrace**	68	1760	1090776.00	18	4	28	7	57
4	**Poultry**	**Kuroiler, Broiler**	16829	318.85	1893032.00	346	104	220	126	796
5	**Fisheries**	**IMC**	23000	1260	251880.00	19	0	9	0	28
6	**Others (Specify)**									
	Total		**39897**	**3338.85**	**32,35,688.00**	**383**	**108**	**257**	**133**	**881**

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.	Indigenous Traditional Tools & implements used in Agriculture & allied sector in Tripura Published in the International Journal of Current Microbilogy	D. Dey *et al,*	-	-
2.	Weed Survey in Different fields of transplanted rice area under Khowai District of Tripura, published in Research Biotica	L.L Debbarma *et al*	-	-
Training manuals	Training Mannual on Management of Insect Pest and Diseases	A. Chakraborty *et al*	200	50
Technical bulletins	Integrated management of major pest and diseases of rice	A. Chakraborty *et al*	200	50
Extension bulletins	Activities of KVK Khowai during the Covid 19 lockdown period	D. Dey *et al,*	50	20
Leaflets/folders	Integrated management of pest and diseases of brinjal and cucurbits	A. Chakraborty *et al*	200	50
e-publications	Information and cultural department, Govt. of Tripura	KVK	-	-

Case Study	Efficient Utilization of water bodies increasing the cropping intensity of North Pulinpur ADC Village of Tripura,India-A case study. Published in Agriculture Update	D. Dey *et al,*	-	-
Review Paper	Enhancing Ground Nut productivity through Integrated Nutrient Management & liming-A review	D. Dey *et al,*	-	
News Paper Coverage	Department of Information & Cultural Development Press Releses,North East Colour,Dainik Sambad,Syndan Patrika,	NA	-	
TOTAL			**650**	**170**

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 photogra

INTEGRATED PEST MANAGEMENT IN RICE IN KHOWAI DISTRICT OF TRIPURA – A SUCCESS STORY

[1]Krishi Vigyan Kendra, Khowai, Tripura-799207, India

<table>
<tr><td>Name of the KVK:
ICAR – Krishi Vigyan Kendra
Village-Chebri, Post - Chebri,
District – Khowai, Tripura
INDIA
PIN - 799207
Email : dkvkwesttripura@gmail.com</td><td rowspan="3">  </td></tr>
<tr><td>Name of the farmer:
Chandan Das, S/O Chandra Kumar Das
Vill- Namapara, P.O. Chebri,
Distt. Khowai-799207
Tripura</td></tr>
<tr><td>Mobile Number: 7628050549</td></tr>
<tr><td>Mail id: NIL</td><td></td></tr>
</table>

Crop: Rice

Area: 2 ha

Introduction:

The farmers of Namapara Village of Khowai district are engaged in paddy cultivation since time immemorial and as the khowai river is flowing near the village farmers can grow paddy three times in a year. Most of the farmers are following SRI techniques for paddy with high yielding varieties like Gomati, Tripura Chikon etc.

The major biotic factors contributing to yield loss in rice are pests, diseases and weeds. Among diseases rice sheath blight, bacterial leaf blight and blast are the major diseases of rice in irrigated ecosystem while weeds like *Cyperus iria, C. rotundus, Cloeme viscosa, Echinochloa crusgalli, Eclipta alba, E. colona,* and *Fimbristylis dichotomy* are also limiting rice productivity in rice growing areas of Tripura. Yellow stem borer and leaf folder are the major Insect pests of rice here. Yellow stem borer, *Scirpophaga incertulas* (Walker) (Lepidopter: Pyralidae) is a monophagous rice pest and attacking the rice crop at every growth stages of the crop.

For the control of yellow stem borer, many methods have been adopted but insecticides are still playing a key role for its control. Non judicial and repeated application of insecticides at improper doses may causes several problems such as disrupting natural enemy complexes, secondary pest outbreak, pest resurgence, development of insecticide resistance and environmental pollution. There is an urgent need to develop an alternate method/technology which can effectively control the insect pests population below economic threshold level and also enhance the rice production without harming the ecological niche. Integrated Pest Management (IPM) is one of the eco-friendly approach which can be utilized to control the non-judicial uses of insecticides to control rice insect pest.

Considering the merits of rice IPM, efficacy and suitability of IPM modules was evaluated in irrigated ecosystem of Khowai district of Tripura during the year 2020-21 under NCIPM, New Delhi NEH project to find out its efficacy in Tripura conditions.

Interventions of KVK

KVK has conducted baseline survey and identified problems associated with rice cultivation. Socio economic status of adopted farmers was also studied before demonstration. The majority of the farmers of study areas are marginal and resource poor. A probable list of interested farmers has been prepared from the survey. Further, KVK scientists visited the land of the selected farmer in presence of the villagers. Before implementing the programme, the skill training programmes were organized involving the selected farmers. Field days and other extension programmes were also organized inviting the farmers of the said and nearby villages, Soil samples were collected before transplanting from 15 and 30 cm depths. Since the balanced use of these nutrients was essential for realizing the full potential of the variety, fertilizer recommendation on the basis of soil test data was recommended.

The experimental material was consists of two treatment schedules viz IPM and non-IPM (conventionally cultivated farmers' practice). IPM module included seed treatment with carbendazim @ 4 g/kg seed, application of broad spectrum weedicide Pretilachlor 50 EC @ 500 ml/acre 2-3 DAT, pheromone traps with 5 mg lure @ 20 traps/ha against yellow stem borer for mass trapping and need-based spraying of Hexaconazole @ 1 ml/l against sheath blight. Popular rice variety of area 'Gomati' was used as test variety. The observations on pests, diseases and yield data were recorded from IPM and non-IPM demonstrations. The data on stem borer infestation was recorded at vegetative stage as dead heart (DH) and total tillers and per cent incidence was worked out. Similarly, white ear (WE) and panicle bearing tillers were recorded near maturity of crop and percent white ear infestation was worked out. The data on grain yield of each plot were recorded separately.

Output and Outcome:

The data on effect of IPM technologies in frontline demonstrations on rice grain yield presented in Table -1 show that the yield ranged from 24.76 q/ha at non IPM module to 37.80 q/ha at IPM modules and net return was also high at IPM modules than the non IPM modules. Minimum % DH and % WE were observed in the IPM modules (6.54% and 8.90%) than the non IPM modules (12.85% and 17.54%).

Table 1: Evaluation of IPM and non IPM modules

IPM modules			**non IPM modules**			**% Yield increase**
Yield (q/ha)	**Net Return (**Rs.)	**BCR**	**Yield (q/ha)**	**Net Return (**Rs.)	**BCR**	
37.80	75800	1:2.55	24.76	35152	1:1.87	52.66

Table 2: Impact of IPM and non IPM modules against yellow stem borer

Parameters	**IPM modules**	**non IPM modules**
Dead Heart (DH) %	6.54	12.85

White Ear (WE) %	8.90	17.54

Impact:

The demonstration has given a clear picture of minimizing yield loss due to yellow stem borer by following IPM modules. Further, the quality of produce was also improved and the net returns of the farmers have also increased as they are not spraying expensive insecticides frequently. Farmers are encouraged to use various ecofriendly strategies before application of deadly insecticides. This year we have planned to spread the technology horizontally in other parts of the district.

	Before IPM	**After IPM**
No. of Sprays	1 spray/week	1 spray/20 days
Labor Requirement	Increased	Decreased
Farmer's profit margins	Less	High
Production level	Decreased	Increased
Average net return	Rs. 35152/ha	Rs. 75800/ha
Pest damage level	Dead Heart (DH) % 12.85 White Ear (WE) % 17.54	Dead Heart (DH) % 6.54 White Ear (WE) % 8.90

IPM MODULES AGAINST TOMATO FRUIT BORER – A SUCCESS STORY

Name of the KVK:
Krishi Vigyan Kendra, Khowai
Village-Chebri, Post - Chebri,
District – Khowai, Tripura
INDIA
PIN - 799207
Tel. No.: +91 9436203373, +91 8415935173
Email : dkvkwesttripura@gmail.com

Name of the farmer:
Hiralal Das, S/O Indrajit Das
Vill- Batapora, P.O. Chebri,
Distt. Khowai-799207
Tripura

Mobile Number: 9436329465

Mail id: NIL

Crop: Tomato

Area: 0.16 ha

Introduction:

Tomato (*Lycopersicum esculentum* L.) is the world's largest cultivated vegetable crop occupying an outstanding place among the important vegetables of the India. Its annual production accounts for 107 million metric tons, with fresh market toma-toes constituting 72% of this total. The susceptibility of tomato plants to insects and pathogens can be high, depending upon the pest species, crop stage, growing season and crop location. This, coupled with factors such as high investment and fruit quality standards, has lead to a high number of pesticide applications, further increasing production costs. In addition to economic challenges, the conventional pest control system has other consequences, such as deleterious effects on the environment. An alternative to conventional pest control is the adoption of integrated pest management (IPM), in which a phytophagous organism is considered as a pest only when it reaches an economic threshold. The goals of the IPM system are to preserve and increase the natural mortality factors of pests by combining various pest management control practices in a compatible manner. The selection of these practices is based on technical, economical,

ecological and social parameters. Therefore, the present success story is written to project the benefits of IPM on the reduction of production losses and the preservation of natural enemies.

Interventions of KVK

In order to reduce the pesticidal load in the environment and to abreast with sustainability, certain IPM modules can be adopted by the farmers. Eco-friendly and effective management of the pest is needed by farmers to reduce their losses and produce good quality vegetables to realize better prices in the market. Keeping this in view KVK, Khowai has assessed and demonstrated this technology during the year 2020-21 under NCIPM, New Delhi NEH project to find out its efficacy in Tripura conditions and also organized training and field demonstrations. A total of 15 farmers were involved in the trials from R.C. Ghat, Batapora, Krishnapur, Nayanpur, Ganki village. The following technology was followed in the IPM modules: Spray with a mixture of lambacyhalothrin 5EC @ 0.8ml/L(0.04%) and Dithane Z-78 (zineb) @ 2.5g/L (0.25%) after 10 days of appearance of moths in the traps (after 30 days of transplanting) followed by second spray with a mixture of Helicide (Ha NPV) 100 LE @ 0.5ml/L+ Indofil M-45 (mancozeb) @ 2.5g/L (0.25%) + Gur (0.05%) + Tween 80 (0.05%) after 15 days of first spray and third spray with a mixture of lamba-cyhalothrin 5EC @ 0.8ml/L (0.04%) and moximate (cymoxanil + mancozeb) @ 0.25% after 15 days of the second spray + pheromone trap 10nos./ha

Output and Outcome:

The comparative effectiveness of modules against the fruit infestation caused by tomato fruit borer during 2020. Table 1 indicated that IPM module minimized the fruit infestation to a substantial level. Significantly superior control of fruit infestation was observed in the IPM module. It is also observed from the results that (Table 1) the lower pest incidence in the IPM module contributed to higher fruit yield (160 q/ ha) and also highest net return was gained than the non IPM module.

Table 1. Impact of IPM and non IPM modules

Modules	Fruit Damage %	Yield (q/ ha)	Gross cost (Rs)	Gross return (Rs)	Net return (Rs)	B:C Ratio

IPM	8.42	160	57375	167480	110105	1: 2.91
Non IPM	38.5	35	47852	65480	17628	1: 1.36

Impact:

Most of the farmers those have implemented the technology in their field were happy with the technology as first time they have earned a handsome profit and and adopted new technology with pheromone trap against borer. IPM practice adopted under the demonstration programme not only reduces the cost of production but also decreased the infestation level and increase the fruit yield.

	Before IPM	**After IPM**
No. of Sprays	3-4 spray/fortnight	1 spray/20 days
Labor Requirement	Increased	Decreased
Farmer's profit margins	Less	High
Production level	Decreased	Increased
Average net return	17628	110105
Pest damage level	38.5	8.42

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year 2020

- **Home Delivery through Farmers Club :**

Nayanpur village of Khowai district of Tripura holds a significant position in steady production of variety of Vegetables round the year. Fresh green vegetables like pointed Gourd, Spine gourd were getting over matured and rotten in the field itself. Generally Cachar, Karimganj of Assam

are the major consumers of Pointed Gourd& Spine Gourd of this village but due to lock down the farmers fail to send their produces to these areas.KVK, Khowai & Economic & Social Welfare Development Farmers club jointly developed farm to Home delivery model of fresh vegetables. During the lock down period the farmers could able to sell 200 q of Pointed Gourd @ Rs. 35.00/kg & 150 q of Spine Gourd @ Rs. 32.00/kg & by this way they could earn a total of 116,500.00. The practice of Home delivery was done by maintaining all the Govt. Guidelines.

- **KVK Came forward to provide Cotton Masks to the farmers:**

Sudden outbreak of COVID-19 resulted in unprecedented demand for masks which resulted in huge supply deficit for masks in the market. Good quality masks were not available in the market at affordable prices.As wearing mask was made mandatory by the Government in order to check asymptomatic spread of the disease.KVK Khowai came forward for this noble cause of social service by preparing and providing masks to the needy. Cotton masks being washable, economical, healthier than the masks having synthetic material and environment friendly and were loved by the people of Khowai district of Tripura. The KVK, Khowai so far supplied more than 5000 masks to the farmers, input dealers, senior citizens of Tripura.

- **Farmers Club & KVK Join hands in distribution of free food kits to fight against COVID-19:**

KVK Khowai with the help of farmers clubs generating awareness among the people regarding COVID-19 spread.With the help of farmers clubs it has reached many villages of Khowai district like East R.C Ghat,North Chebri,Tablabari,Sonatala,Kakracher,Hrankhawal Para,North Pulinpur etc covering almost all the blocks of the district.With the help of team of volunteers of farmers clubs kits of food items(Potato:2 kg,Onion: 1 kg,Mustard oil: 1 lit,Soap,Fruits,Masks,turmeric powder,Spices) were distributed among the needy people by KVK as well as Farmers Clubs.

- **IT platform shorten the distance between the scientist & Farmers:**

  After the lock down has been declared all over the country the farmers of the Khowai district were facing lots of problems as they were unaware of precautions against COVID-19.Farmers were facing problems in Agricultural Activities (Do"s & Don't) during lock down. They were facing problems in marketing of vegetables produced, insect pest problems, management of mushrooms, livestock & disease control management, disease control of fruits & vegetables .KVK Khowai started new wats app group to provide advisory and to address problems faced by the farmers during the lock down period. More than 1100 numbers of farmers were connected through Wats app and KVK boost them to continue their agriculture activities by taking safety measures against COVID-19.All the scientist of KVK are actively providing need based technical supports to the farmers and side by side gave them reply on their need based quaries.In this way till date more than 150 quaries have been

resolved through wats app & Telephonically. This approach not only address the farmers problems but also share lot of information's related to COVID-19,weather forecast,agriculture sector activities,which helped the farmers of Khowai district to continue their agricultural activities by following the Government guidelines.

- **Instant Crop Protection Advisory & Suitable PPC Supply through KVK, Khowai - Agri –Clinic at NICRA Adopted village of Khowai district of Tripura**
- North Pulinpur is a 100% tribal inhabited village of KVK, Khowai
- The village has been adopted by KVK, Khowai under NICRA Project
- Bitter Gourd & Maize is cultivated in almost 100 ha area of the village and the major crop of the village
- During Lock down period the farmers were facing problems of fruit fly in bitter gourd and stem borer in maize , the farmers were not getting suitable Advisory and right PPC to address the issues.
- They have informed KVK Khowai Scientists
- KVK, Khowai scientists visited the farmers plot and given them immediate solution with supply of PPC from KVK, Agri clinic.
- After one spray of recommend PPC the farmers could get rid of the insect attack in those two major crops during harvesting time & they could get very good yield.(Bitter Gourd: 97 q/ha,Maize:54 q/ha)
- A total of number of farmers has been benefited by this Agri-Clinic service of KVK, Khowai

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
1	**Fishery**	Sudam (Kokborok language) or Fishing Trap	It is mainly used by Traditional or Indigenous people. It is used as a fishing trap to catch the fishes in pond, lake, river or in any water bodies.
2	**Drudgery Reduction Tool**	Twi hook(Kokborok Language)	It is mainly used by Traditional or Indigenous people. It is used for carrying water bucket or any hard items in more number.
3	**Paddy**	Rusham & Romo (Kokborok language) or Denki or Man	It is mainly used for making flour specially from paddy grain and sometime other grains are also placed for making flour.

		operated Rice miller	
4	**Pulse**	Janta (in Bengali/ local language) or pulse breaker	It is mainly used to break whole pulse grain by crushing them into it to make edible pulse.
5	**Rice**	Dengki or man operated rice miller	It is mainly used for milling of rice. Earlier days when milling machine was not available, it was being used by the people for preparing rice from paddy.

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

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

3.11 Field activities

i. Number of villages adopted: 35

ii. No. of farm families selected: 4500

iii. No. of survey/PRA conducted: Survey: 9, PRA: 1

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Need Upgradation

1. Year of establishment : 2005-06
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost

	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		Mridaparishak	Nagarjuna Agro Chemicals Pvt Limited	2	165300.00
2		Pusa Mini Soil Lab	W.S Telematics P Ltd	1	86000.00
Total				**3**	**251300.00**

3. Details of samples analyzed (2020) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	479	479	11	-
Water Samples	6	6	3	-
Plant Samples				
Petiole Samples				
Total	485	485	14	

1. **Details of Soil Health Cards (SHCs) (2020)**
   a. **No. of SHCs prepared: 479**
   b. **No. of farmers to whom SHCs were distributed: 479**
   c. **Name of the Major and Minor nutrients analyzed:** N, P, K, S, Zn, B, Cu
   d. **No. of villages covered: 11**

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	216	1080	150	851	171	995	55	221	142	1292	174	554	908	4993
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice	155	895	110	580	56	395	35	280	175	357	34	182	565	2689

and Text both														
Total	**371**	**1975**	**260**	**1431**	**227**	**1390**	**90**	**501**	**317**	**1649**	**208**	**736**	**1473**	**7682**

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 Drought Tolerant Paddy Variety. Tripura Hakuchuk-2,Tripura-Nirog	5	0	70	70
	Introduction of Mulching in Bitter Gourd with Paddy Straw	5	0	50	50

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**

Drought like situation	Improved Poultry bird in backyard system (250)	1	1	250	0	50	50

4.0. IMPACT

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

Name of specific technology/skill transferred	**No. of participants**	**% of adoption**	**Change in income (Rs.)**	
			Before (Rs./Unit)	**After (Rs./Unit)**
Promotion of ginger cultivation through Raising sett	35	65%	120000/ha	180400/ha
Promotion of HYV of Sesamum (Tripura Siphing)	150	90%	40000/ha	68000/ha
Promotion of HYV of Toria (Tripura Toria)	170	87.00	52500.00/ha	66500/ha
Promotion of Liming & INM in Maize	199	75	56000/ha	100000/ha
Mushroom and value added production	135	45.00	Not practiced	1500.00/month/unit
Portable Mini Poultry Brooder	30	100	-	5000.00
Backyard Poultry Shelter (BPS) with nest box	12	100	4300.00	5400.00
Piglet Soothe Snooze Deck to reduce the mortality in piglets due to hypothermia and crushing injury by the dam	10	100	45000.00	60000.00
Creep Feeder for Piglets	10	100	45000.00	60000.00

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)

Sl. No	**Crop/ Enterprise**	**Technology**	**Result Obtained**
1.	Agriculture & Soil Science	Installation of Nano Pumps Near to the Water Harvesting Structure for	**Cultivation of Paddy with Conventional Method** Yield Obtained: 52 qt/ha,BCR: 2.01

		Supplemental Irrigation in Paddy with SRI Technology	Cultivation of Paddy with Nano Pump Technolgy**:** Yield Obtained: 70 qt/ha BCR: 2.52 **Total area Covered: 250 ha**
2.		Furrow Irrigation in Maize with Liming & INM	❖ Higher yield of Maize with enhanced B:C ratio of 2.88 compared to FP where land remains fallow ❖ BD value under TD incraeased from 1.35 from 9 1.48 ❖ Field Saturated Hydraulic conductivityK_S(cm/hr) increased to 1.11,from 0.37
3.		Soil Test Based Nutrient Management	Tested 489 representative soil sample Soil Health Cards were distributed Result -Save 15-16 per cent cost on fertilizers, besides increase in yield by 10-12 % to start
4		In Situ Green Manuring with Dhaincha	❖ Higher yield of paddy obtained with Green manuring with Dhaincha as compared to FP where land remains fallow ❖ SOC value under bio-mulch by 1.9% ❖ Enhanced available soil nutrient status compared to Common Practice**.**
5.	Nutritional garden	Year round vegetable production	As per daily requirement of vegetable @ 300g /day/capita, a family member of 4-5 nos. will require 540 kg of vegetable/year. From a nutritional garden having area 0.0.256 ha total production of vegetable is 435 kg/year. i.e through this garden a family will be able to meet 80.55% of total vegetable requirement,
6.	Soakage pit	Soakage pit Soakage pit (Disposal of waste water in design pit (1m X 1m X 1m)	1.10% stagnant water observed around the tube well 2. Due to lack of water stagnant smell was not found 3. No Fly and Mosquito in the operational area
7.	Jackfruit Chips	Assessment on performance of Jackfruit Chips Preparation T1: Jackfruit chips preparation with blanching in hot water with 1% KMS for 5-6 minutes T2: Local method : Without blanching in hot water with KMS	T1 – Jackfruits chips prepared under treatment of KMS and blanching for the certain time enhance & improved the quality of chips- color, taste, increase shelf life. Consumer demand is high T2 – Without KMS and blanching, in this product It was observed shelf life of this product was only upto20-30 days. Colour & taste is also not attractive. Consumer demand is low
8.	Poultry	Portable Mini Poultry Brooder	Hatchability of fertile egg received as 75%, duckling were sold at Rs. 70/- per piece, poultry chicks were sold at Rs.50/- per piece. Benefit Cost Ratio attained was 2.63
9.	Poultry	Rearing of dual purpose poultry bird	Body weight gain was 1.8 kg at age of puberty in male birds, 1.6kg in case of female bird at the age of first laying, Egg laid in first year was 120 eggs/bird. Benefit Cost Ratio received was 2.84

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

Sl. No	Title	Result
1.	Impact of NFSM Paddy scheme on the income level of the farmers	In average Rs. 27000/ha income increased, while the cost of production decreased by 27%, BCR was found 1:1.82
2.	Impact of Soil health card	Cost of cultivation reduced to 18.50%, 62% farmers started applying balance fertilizer by seeing the recommendations, about 69.50% farmers found SHC helps them to increase their production level
3.	Impact of various central governmental scheme on livelihood of farmers, implemented by KVK, Khowai	88.60% farmers found those schemes help them to learn new technologies, 72.50% farmers found these schemes improves their livelihood status by increasing the productivity, 58.00% farmers thinks they already upgraded their livelihood status using those schemes

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2020

Name of organization	Nature of linkage
1. ICAR Research Complex for NEH Region, Tripura centre	Joint implementation
2. College of Agriculture, Tripura	Joint implementation
3. Dept. of Agriculture, Horticulture, ARD Dept. and Dept. of Fisheries, Tripura	Joint implementation
4. College of Fisheries, CAU, Tripura	FAWEP
5. NGOs	Training
6. CRIDA, Hyderabad	Joint implementation
7. NABARD, Tripura	Joint implementation
8. Other KVKs	Joint implementation
9. MANAGE, Hyderabad	Training
10. NIPHM	Training
11.NCIPM	Joint implementation
12. T- SAMETI	Training
13. UGTC, Tripura	Exposure visit
14.District Magistrate & Collector,Khowai	Training
15.Sub-Divisonal Magistrate,Khowai	Joint implementation

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.)
BADP	Skill Development Training	03.12.2020	District Magistrate & Collector, Khowai	**Rs. 230816.00**
IWMP Khowai Batch IV	Watershed Development Work	April, 2020	State Level Nodal Agency, IWMP, Department of Agriculture, Govt. of Tripura	**Rs. 550000.00**
FLD on Pulse	Demonstration,, Training, Monitoring, Field Day.	Nov., 2020	Ministry of Agriculture, Govt. of India	**Rs. 180000.00**
FLD Oilseed (NMOOP)	Demonstration,, Training, Monitoring, Field Day.	April, 2020	Ministry of Agriculture, Govt. of India	**Rs. 337953.00**
STRY	Skill Development Training	Feb, 2020	MANNAGE, Hyderabad	**Rs. 184000.00**
Project on IFS	Demonstration	Sep, 2020	VPKAS, Almora	**Rs. 600000.00**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
-	-	-	-

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
-	-	-	-

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 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.	Piggery-2 nos.	1992, 2002	779.9 sq.m	White Yorkshire and Landrace	Piglet, Sow, Gilt, Boar	68	918574.00	1090776.00	
2	Poultry-11 nos.	1982, 1993, 2003	584 sq.m	Kuroiler, Broiler	Chicks and Live weight	16829 nos and 318.85 kg	1549633.00	1893032.00	
3.	Fishery-6 nos.	1975, 1978, 1984, 1991, 1992	0.76 ha	IMC	Fish Seed, Table fish	23000 nos & 1260 kg	163000.00	251880.00	

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	04.03.2020	02.07.2020	0.64	Gomati	Seed/Table	2700 Kg	38000.00	43200.00	
Rice	22.08.2020	11.12.20	0.8	Gomati	Seed/Ta	3540	48000.	65318.	

		20			ble	Kg	00	00	
Rice	26.08.2020	15.12.20 20	0.03 2	Kalo khasa	Seed/Ta ble	70 Kg	1900.0 0	2450.0 0	
Wheat	-	-	-	-	-	-	-	-	-
Maize	23.11.2020, 27.12.2020	-	0.16	Disha 3502	Table	-	9000.0 0	-	Standi ng crop
Any other	-	-	-	-	-	-	-	-	-
Pulses									
Cowpea	08.11.2020	23.12.20 20	0.00 2	Kashikanch an	Table	5 Kg	200.00	100.00	Satndi ng crop
Green gram	-	-	-	-	-	-	-	-	-
Black gram	-	-	-	-	-	-	-	-	-
Arhar	-	-	-	-	-	-	-	-	-
Lentil	-	-	-	-	-	-	-	-	-
Any other									
-	-	-	-	-	-	-	-	-	-
Oilseeds									
Sesame	-	-	-	-	-	-	-	-	-
Mustard	-	-	-	-	-	-	-	-	-
Soy bean	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-
Any other	-	-	-	-	-	-	-	-	-
Fibers									
i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
i. Ginger	13.05.2020	-	0.08	Nadia	Seed	-	7000.0 0	-	Standi ng crop
ii. Chilli	11.10.2020	-	0.24	NS 203, Local	Table	-	2500.0 0	-	Standi ng crop
iii. Coconut	20.6.1979	Througho ut the year	0.48	Kanchanpu ri , West coast	Seed / Table	1815 pc	7500.0 0	14500. 00	
Floriculture									

i.	-	-	-	-	-	-	-	-	-
ii.	-	-	-	-	-	-	-	-	-
Fruits									
i. Litchi	1979, 1986	18.05.2020	0.08	Bombay	Table	12000 pc	2500.00	3000.00	
ii. Mango	1986,2014	26.4.2020	0.32	Amrapali , Himsagar	Table	363 Kg	5500.00	10200.00	
iii. Wood apple	20.04.1978	19.05.2020	0.008	Local	Table	840 pc	50.00	420.00	
iv. Pamelo	20.04.1986	10.10.2020	0.008	Local	Table	70 pc	100.00	210.00	
v. Banana	15.10.2016	Throughout the year	0.024	Sapri , G 9	Table	750 pc	500.00	1100.00	
vi. Sweet orange	05.02.2013	09.08.2020	0.04	Nagpuri santra , Valencia	Table	350 pc	500.00	1020.00	
Vegetables									
i TPS tuberlet	10.11.2020	-	0.128	HPS II/67	Seed	-	50000.00	-	Standing crop
ii. Ware potato	12.11.2020	-	0.028	HPS II/67	Table	-	3500.00	-	Standing crop
vii. Papaya	03.05.2018	Throughout the year	0.04	RCTP 8, Tripura Papita	Table	3500 Kg	13000.00	30100.00	
viii. Drumstick	10.06.2013	16.03.2020	0.08	Local	Table	44 Kg	1000.00	3600.00	
ix. Brinjal	18.10.2020	-	0.016	Bhangor giant	Table	-	1500.00	-	Standing crop
x. Tomato	19.10.2020, 10.12.2020	-	0.008	TO 1458, Keshave	Table	-	1000.00	-	Standing crop
xi. Capsicum	18.10.2020	-	0.002	NS 292	Table	-	400.00	-	Standing crop
xii. Broccoli	18.10.2020,	-	0.03	Green	Table	-	3500.0	-	Standi

		10.12.2020		2	magic			0		ng crop
xiii.	Cauliflower	17.10.2020, 20.11.2020	-	0.02 4	N S 555 ,Candid charm	Table	-	2700.0 0	-	Standi ng crop
xiv.	Cabbage	07.12.2020	-	0.01	BC 76	Table	-	1000.0 0	-	Standi ng crop
xv.	Red cabbage	18.10.2020	-	0.00 2	Red jewel	Table	-	300.00	-	Standi ng crop
xvi.	Okra	14.08.2020, 30.08.2020	3.10.202 0	0.03 6	Alia ,Sakata 715	Table	110 Kg	4500.0 0	6500.0 0	
xvii.	Radish	12.08.2020	08.09.20 20	0.02 8	R 33 , Ivory white	Table	3430 pc	2000.0 0	2400.0 0	
xviii.	French bean	18.10.2020	-	0.00 2	Pritha	Table	-	300.00	-	Standi ng crop
xix.	Pumpkin vine	27.02.2020, 15.03.2020	15.04.20 20, 30.04.20 20	0.01 6	Baidyabati	Table	550 pc	600.00	1100.0 0	
xx.	Amaranthus	13.08.2020	08.09.20 20	0.01 2	Mohanbho g	Table	2000 pc	700.00	1200.0 0	
xxi.	Bottle gourd	11.11.2020	-	0.00 4	Gadda	Table	-	500.00	-	Standi ng crop
xxii.	Beet	19.10.2020	-	0.00 2	Red globe	Table	-	250.00	-	Standi ng crop
xxiii.	Coriander	18.10.2020	-	0.00 2	X 47	Table	-	300.00	-	Standi ng crop
xxiv.	Knol khol	7.12.2020	-	0.00 4	Early white	Table	-	1000.0 0	-	Standi ng crop
xxv.	Yard Long bean	01.04.2020	06.06.20 20	0.02	Lafa sohini 7	Table	-	1500.0 0	2900.0 0	
xxvi.	Pea	15.12.2020	-	0.00 2	Arkel	Table	-	200.00	-	Standi ng

									crop
xxvii. Colocasia	30.03.2020	30.09.2020	0.004	Muktakeshi	Seed/Table	47.5 Kg	1000.00	1258.00	10 Kg in stock
xxviii. Ridge gourd	16.03.2020	13.05.2020	0.008	Raj sundari	Table	38 Kg	600.00	950.00	
xxix. Iceberg	08.12.2020	-	0.002	NS 1451	Table	-	350.00	-	Standing crop
xxx. Bitter gourd	08.11.2020	-	0.016	Spl bolder	Table	-	1000.00	-	Standing crop
a. Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	*Trichoderma viridae*	97 kg	Nil	3880	Distributed among the farmers under NFSM Oilseeds
2	Vermicompost	1200 kg	4000.00	12000.00	Used at KVK,Farm

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	
1	Pig	White Yorkshire and Landrace	Piglet, Sow, Gilt, Boar	67	918574.00	1090776.00	-
2	Poultry	Kuroiler, Broiler	Chicks and Live weight	16829 nos and 318.85 kg	1549633.00	1893032.00	-
3.	Fish	IMC	Fingerling and	23000 nos	163000.00	251880.00	

			Table fish	& 1260 kg			

6.5 Rainwater Harvesting

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

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST		
				Male	Female	Total
21st -22nd August 2020 and 25th -26th August 2020	Livestock and poultry based IFS	PF	2	23	0	23
24th -25th August, 2020 and 26th – 27th August, 2020	Carp breeding and hatchery management	PF& RY	2	20	4	24

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

Accommodation available (No. of beds): 40

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)
February 2020-March 2020	Skill development training for animal health worker	1 0.2.2020 – 18.03.2020	20	740 days	NA
February 2020	Skill development training on poultry rearing and management	10.02.2020 – 16.02. 2020	14	98 days	NA
February 2020	Skill development training on Post Harvest processing and packaging of fruits and vegetables	10.02.2020 – 16.02. 2020	14	98 days	NA
September 2020	Post Harvest processing and packaging of fruits and vegetables	24.9.2020-30.9.2020	20	140 days	NA
Total			**68**	**1076**	

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,	Khowai	38096287514
With KVK	State Bank of India,	Khowai	36526709161
Revolving Fund	State Bank of India,	Khowai	38096267348

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, 2018
	Amount	Amount	Amount	Amount	
Inputs	1.80	3.37953	1.80	3.37953	Nil
Extension activities					
TA/DA/POL etc.					
TOTAL	1.80	3.37953	1.80	3.37953	

7.3 Utilization of KVK funds during the year 2020-21

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	133.73981	133.73981	133.73981
2	**Traveling allowances**	2.30	2.30	2.30
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			10.01837
B	POL, repair of vehicles, tractor and equipment			1.24016
C	Meals/refreshment for trainees			0.63373
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.21096
E	Frontline demonstration except oilseeds and pulses			1.34945
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			1.02901
G	Training of extension functionaries			2.06704
H	Maintenance of buildings			1.06147
I	Establishment of Soil, Plant & Water Testing Laboratory			-
J	Library	17.69019	17.69019	0.08
4	HRD	0.75	0.75	0.75
5	NARI	0.5	0.5	0.5
6	KSHAMTA	0.5	0.5	0.5
TOTAL (A)				
B. Non-Recurring Contingencies				

1	**Works**			-
2	**Equipments 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)		**155.48**	**155.48**	**155.48**

7.3 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 2018to March 2019	4.19	43.34	43.05	4.48
April 2019 to March 2020	4.48	44.39	45.25	3.62
April, 2020 to March 2021	3.62	50.17	49.41	4.38

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)

(a) Administrative: For mobility of trainees 25 seated bus should be provided for the KVK, provision for permanent labour, problem of ICT and electricity, administrative and faculty buildings need to be updated as per ICAR norms, staff quarters is to be allotted as per ICAR norms

(b) Financial: Intermittent flow of the funds from organization to KVK for carrying of mandatory activities. Insufficient fund for training and meals.

(c) Technical: Required modern laboratory facilities and technical person for handling of machineries.

Sd/-
Dr.Manoj Singh Sachan
(Signature)
Sr. Scientist cum Head