PROFORMA FOR ANNUAL REPORT OF KVKS 2022 (January- December)

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 (Divyodaya), 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/ Contact		E- mail
	Office	Fax	
Sri Ramakrishna Seva Kendra, 81 Bondel Road, Kolkata-700019, West Bengal	9230613725	-	srskcal@yahoo.co.in

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

Name	Telephone/ Contact		
	Residence	Mobile	E- mail
Dr. Manoj Singh Sachan, DKVK, Khowai, PO Chebri, District Khowai: Tripura-799207	-	9862807336	sachankvkmon@gmail.com

1.4. Date & Year of sanction: 11th May, 1979

1.5. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Category (SC/ST/ OBC/ Others)
1	Sr. Scientist & Head	Dr. Manoj Singh Sachan	Sr. Scientist & Head	GPB	L-13A Col-3	139400	18.12.2020	OBC
2	Subject Matter Specialist	Dr. Nurul Islam	SMS (Animal Science)	Vety. Gynae. & Obst.	L-11 Col-13	96600	5.12.2007	Others
3	Subject Matter Specialist	Mr. Suresh Biswas	SMS (Home Science)	Food Technology	L-11 Col-8	83300	18.12.2010	SC
4	Subject Matter Specialist	Dr. Subhra Shil	SMS (Horticulture)	Horticulture	L-10 Col-9	71100	21.09.2013	OBC
5	Subject Matter Specialist	Mr. Dipankar Dey	SMS (Soil Sc.)	Soil Science	L-10 Col-9	71100	30.09.2013	Others
6	Subject Matter Specialist	Mr. Ardhendu Chakraborty	SMS (PP)	Entomology	L-10 Col-8	69000	15.10.2014	Others
7	Subject Matter Specialist	Dr. Rajib Das	SMS (Agri Extn)	Extension Education	L-10 Col-5	63100	16.05.2018	SC
8	Farm Manager	Mr. Prasanta Reang	Farm Manager	Agronomy	L-6, Col-8	43600	03.10.2015	ST
9	Computer Programmer	Vacant						
10	Programme Assistant	Mr. Pranab Rudra Paul	PA	Fishery	L-6, Col-1	35400	23.12.2021	OBC
11	Assistant	Mr. AnantaNath	Assistant	Commerce	L-6, Col-1	35400	07.02.2022	OBC
12	Stenographer	Kaushik Sengupta	Steno/ Typist	-	L-5, Col-15	44100	05.07.1990	Others
13	Driver	Monmohan Debnath	Driver	-	L-4, Col-8	31400	1.04.2000	OBC
14	Driver	Rakesh Debnath	Driver	-	L-3, Col-8	26800	24.10.2014	OBC
15	Supporting staff	Manas Deb Barma	Supporting staff	-	L-1, Col-9	22800	24.10.2014	ST
16	Supporting staff	Mr. Gautam Deb Barma	Supporting staff	-	L-1, Col-6	20900	22.09.2017	ST
	Total		15					

Note: No column in the table must be left blank

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

b. Total cultivable land with KVK (in ha):3.16

c. Total cultivated land (in ha):

S. No.	Item	Area (ha)
1.	Under Buildings	0.71
2.	Under Demonstration Units	0.75
3.	Under Crops (Cereals, pulses, oilseeds etc.) (Pl. Specify separately) i.Cereal ii.Pulses (Blackgram, Greengram, Field pea iii. Toria	1.16
4.	Under vegetables	2.00
5.	Orchard/Agro-forestry	37.84
6.	Others (specify)- Fish based Integrated Farming System Models	1.00

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 (2)	ICAR	1979-1991	475.83	6,91,010	-	-	Functioning
2.	Farmers Hostel (2)	ICAR	1983-1987	226.9	8,22,107	-	-	Functioning
3.	Staff Quarters (4)	ICAR	1985-1991	129.82	12,09,865	-	-	Condemned
4.	Sr Scientist & Head Quarter	ICAR	1990-1991	140.6	-	-	-	Occupied
5	Bachelor's Quarters (5)	ICAR	1985-1986	253.51	-	-	-	Occupied
6	Demonstration Units	ICAR, DRDA, RF	1982-2003	1030.75	21,90,231	-	-	Functioning
7	Fencing	ICAR	2002-2003	2312.8	8,000	-	-	Renovation going on

8	Rain Water Harvesting system	Spices Board	2010-2011	184.5	-	-	-	Non Functioning
9	Threshing Floor	ICAR	1982-1983	103.3	-	-	-	Functioning
10	Farm Go-down	ICAR	2005-2006	166.65	-	-	-	Functioning
11	Guest House	ICAR	1990-1991	37.2	-	-	-	Functioning
12	Garage (2)	ICAR, SRSK	1991, 2008	96	-	-	-	Functioning
13	Library	ICAR	1986-1987	88.55	-	-	-	Functioning
14	Animal Science Store	ICAR	1986-1987	12.71	-	-		Functioning
15	Fishery Store	ICAR	1981-1982	226.90	-	-	-	Functioning
16	Class Room (3)	ICAR	1982-1983	30.31	-	-	-	Functioning
17	Soil and Water Testing Lab.	ICAR	2005-2006	37.14	-	-	-	Functioning
18	Vermicompost Unit (9)	RF, Spices Board, MGNREGA	2008-2009	475.83	6,91,010	-	-	Functioning
19	Exhibition Hall	RF	2010- 2011	226.9	8,22,107	-	-	Functioning
20	Conference Hall	RF	2009- 2010	-	-	-	-	Functioning
21	Mushroom spawn prod. laboratory & agri clinic	ICAR and RF	2013-14	326.1	1,30,000.00	-	-	Mushroom lab
22	Temple	SRSK	2002	110.15				Complete
23	Bio-Flock Unit	T-SAMETI	2020-21	33.75	100000.00			Validation Process

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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	119621 km (13528 km)	Good

C) Equipments& AV Aids

Sl No	Name of the equipments	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	2005-2006	19,000.00	Good
9.	Rotary shaker	2005-2006	6,900.00	Good
10.	Soil sampler	2005-2006	5,200.00	Good
11.	Hot water bath	2005-2006	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.	VCD – 2 nos.	2003- 2005	42,231.00	Need to be repaired
19.	Camera – 4 Nos.	2013, 2014	56,960.00	Good
20.	Multimedia P.C (9)	2003, 2004, 2016	-	Good
21.	LCD projector with display screen	2008-09	1,00,012.00	Need..renovation
22.	Autoclave (3)	2011-12	5,63,045.00	Good
23.	B.O.D. Incubator	2011-12	87,720.00	Need to be repaired
24.	Steel rack (20)	2011-12	1,51,912.00	Good
25.	CPU (1)	2012-13	19,900.00	Good
26.	Hard disk external (2)	2012-13	11,600.00	Good
27.	Laminar flow (1)	2011-12	39,450.00	Good
28.	Laminar flow (1)	2012-13	67,873.00	Good
29.	Mixture machine (1)	2012-13	4,115.00	Good
30.	Research microscope (1)	2012-13	22,246.00	Good
31.	Note pad computer (1)	2012-13	16,900.00	Need to be repaired
32.	UPS (APC 1 KV) (1)	2012-13	13,800.00	Good
33.	Weighing balance (1) 200 gm capacity	2011-12		Good
34.	Refrigerator (3)	2011-12, 2016-17	41000.00	Good

35.	Digital balance (1)	2011-12	12,650.00	Good
36.	pH meter	2012-13	15743.00	Need to be repaired
37.	EC meter	2012-13	25936.00	Need to be repaired
38.	Canon printer (9)	2011-12, 16	79025.00	Good
39.	Spiral binding machine (1)	2011-12	4030.00	Good
40.	Fax machine (1)	2011-12	6050.00	Good
41.	GPS instrument (1)	2011-12	21,111.00	Good
42.	UPS (600 V) (1)	2011-12	2550.00	Good
43.	HP combined printer & Scanner (2)	2012-13, 16	9000.00	Good
44.	Rotary shaker (1)	2012-13	38,604.00	Good
45.	Vacuum cleaner (1)	2012-13	6799.00	Good
46.	Internet modem (4)	2012-13	6800.00	Good
47.	Internet modem wi fi (1)	2016-17	3500.00	Good
48.	Intercom	2015-16	20000.00	Good
49	Sewing machine (5)	1980-1985	4,250.00	Good
50	Lenovo computer notebook	2013-2014	47,520.00	Good
51	Lenovo desktop	2013-2014	31,630.00	Good
52	UPS 600 VA	2013-2014	2,530.00	Good
53	LAN connection	2013-2014	12,083.00	Need to be repaired
54	Mridaparikshak (2)	2015-16	165300.00	Good
55	Tractor	2017-18	10,00,000.00	Good
56	Generator	2017-18	85,958.00	Good

57	Distilled Water plant	2016-17	25000.00	Good
58	Ahuja Speaker with stand, Ahuja Microphone	2018-19	18420.00	Good
59	Sprinkler Irrigation Set(12 Numbers)	2019-20	3,0000.00	Good
60	Invertor (3 numbers)	2020-21	8,0000.00	Good
61	LCD projector with Screen	2020-21	45,200.00	Good
62	Refrizerator	2020-21	17,000.00	Good
63	Foot Sprayer	2020-21	6328.00	Good
64	Chain Saw	2020-21	16520.00	Good
65	Mixer Grinder	2020-21	5252.00	Good
66	Portable LCD Projector	2020-21	9500.00	Good
67	Computer	2021-22	32800.00	Good
68	Generator	2021-22	96000.00	Good
69	Ahuja Sound System	2021-22	44475.00	Good
70	Hard Disc	2021-22	8900.00	Good
71	Web Cam	2021-22	5250.00	Good
72	CC Camera	2021-22	43940.00	Good
73	Color Printer	2021-22	23000.00	Good
74	Power Thresher	2021-22	29200.00	Good
75	Aqua Guard	2021-22	10999.00	Good
76	AC Machine	2021-22	44800.00	Good
77	Drone	2022-23	9,98,000.00	Good

78	Drone Camera (Mini Drone)	2022-23	135700.00	Good
79	Computer (3Nos)	2022-23	129000.00	Good
80	Web Cam & Speaker	2022-23	23360.00	Good
81	Power Tiller	2022-23	209140.00	Good
82	Almirah Computer Table	2022-23	36000.00	Good
83	CC Camera	2022-23	10575.00	Good
84	Books	2022-23	15000.00	Good

1.8. A). Details SAC meeting* conducted in 2022

Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
28.12.2022	**Swami Muktatmananda Maharaj-**General Secretary of SRSK, Kolkata, the host institute of the KVK, Khowai (Online). **Dr. M.S. Sachan-** Sr. Scientist & Head, KVK, Khowai, Tripura **Dr. Ratan Kumar Saha-** Dean, College of Fisheries, Lembucherra, Tripura (Online). **Dr. Rajumani Bordoloi-**Principal Scientist (AE), ICAR-ATARI, Umiam, Meghalaya (Online). **Dr. Sankar Prasad Das-**	1. Specific problems identified for each technological intervention must be clearly mentioned in consultation with farmers. 2. Impact analysis of trainings and successful technologies must be done. 3. Maximum villages of the district must be covered by conducting trainings, demonstrations and other interventions. 4. Successful technologies of other KVKs of the state may also be considered for front line demonstration. 5. Seedling production of KVK should be increased. 6. Need based training programmes must be selected in consultation with farmers. 7. More emphasis must be given for horizontal expansion of technologies among the neighbouring villages of the district. 8. Successful technologies must be shared or	**Recommendation:** Awareness programmes must be done to aware farmers on crop rotation to reduce diseases of solanaceous crops. **ATR:** Importance of crop rotation is discussed during every training and awareness programme on IPM and Natural farming (Total Programme:8, Beneficiary Covered:350) **Recommendation**: Thrips and Mites management strategies may be clubbed in BIPM strategies **ATR:** Broflanilid 20 % SC a newer insecticide cum acaricide has been included along with other treatments

	(Director)-ICAR NRC (Orchid), Sikkim (Online). **Mr. Krishnahari Tripura**-Deputy Director of Fisheries, Khowai, Tripura. **Mr. Amit Das,** DDM, NABARD, Khowai, Tripura. **Dr. Tridip Bhattacharya,** Asst. Professor, College of Agriculture, Tripura (Online). **Dr. Utpal Giri,** Asst. Professor, College of Agriculture, Tripura (Online). **Mr. Pritam Chakraborty,** Senior Field Officer, Spices Board, Agartala (Online). **Mr. Suman Bhowmik,** Senior Agriculture Demonstrator, Spices Board, Agartala (Online). **Mr. Bijoy Gope,** Farmer (Entrepreneur), Ganki, Khowai **Mrs. Jannabi Hrankhwal,** Progressive Farm Women, Surdu Karkari, Khowai **Mr. Hiralal Das,** Progressive Farmer, RC Ghat, Khowai	communicated with the line departments.	**Recommendation:** ICAR released suitable hybrid tomato varieties may be popularized. **ATR:**Such tomato varieties were supplied to the farmers under IARI-NEH programme and IIHR NEH programme as per requisition and also OFT is going on such hybrid variety **Recommendation:** Priority must be given to popularize pheromone traps among the farmers. **ATR:** Elite quality pheromone lures have been introduced in all suitable demonstrations and treatments **Recommendation:** KVK must focus on crop varieties suitable for Tripura condition **ATR:** Tripura Toria, Tripura Hakuchuk 2, BG PU31, Mustard NRCHB 1, Rajma: Tripura Rajma, Field Pea: Aman, Garden Pea: Arkel, Kashi Nandini **Recommendation:** Refinement must be done with the successful OFT **ATR:** Two nos. of technology refinements are done **Recommendation:**As wild elephants are damaging paddy crops in many areas of Teliamura subdivision so KVK may intervene to change the cropping pattern to mitigate the problems. **ATR:**Discussion with farmers and local agricultural authority is going and chilli cultivation is promoted and enhanced as this

	Mrs. Lipi Bhowmik, Farm Women (SHG member), Sonatala, Khowai **Dr. Nurul Islam,** SMS-Animal Science, KVK, Khowai, Tripura. **Mr. Suresh Chandra Biswas-** SMS-Home Science, KVK, Khowai, Tripura. **Dr. Subhra Shil,** SMS-Horticulture, KVK-Khowai **Mr. Dipankar Dey,** SMS-Soil Science, KVK, Khowai, Tripura. **Mr. Ardhendu Chakraborty,** SMS-Plant Protection, KVK, Khowai, Tripura. **Mr. Rajib Das,** SMS-Agricultural Extension, KVK, Khowai, Tripura. **Mr. Prasanta Reang,** Farm Manager, KVK, Khowai, Tripura. **Mr. Pranab Rudra Paul,** Programme Assistant, KVK, Khowai, Tripura. **Mr. Pradip Debbarma,** Programme Assistant, KVK, Khowai, Tripura.		crop is less damaged by elephant. **Recommendation:** Based on the OFT data some good research papers may be published in some good journals to highlight the research activities done by KVK. **ATR:**Varietal Evaluation Of marigold (Tagetes spp.) under sub tropical climatic, Effects of INM on Growth, Yield; Quality of Sprouting Broccoli (Brassica Oleracea var. Italica) Cv. Besty Under Tripura Condition; Using of root dipping in SSP MC Slurry Method in Enhancing Paddy productivity in Khowai dist of Tripura, NE India **Recommendation:**Few good success stories may be prepared and presented in next year. **ATR:**124 nos under DFI, NCIPM, TSP, ICAR-IARI NEH component, NICRA **Recommendation:**Impact study of training programme must be conducted and successful technologies must be shared with the line department. **ATR:**A book on successful technologies is compiled and submitted for printing & publication **Recommendation:**Some successful entrepreneurs must come out from the KVK **ATR:**Ajit Debnath (Animal-prenure), Bijoy Gope (Horti-preunure), Sankar Shil (Horti-preunure), Parsha Mudak (Fish-prenure), Jhanbi Hrangkhwal (Horti-preunure) **Recommendation:**Few intervention in OFT/FLD may be taken with spice crops. **ATR:**We have been conducting OFT and FLD Ginger since 2017 and providing necessary

	Mr. Ananta Nath, OS cum Accountant, KVK, Khowai, Tripura. **Mr. Kaushik Sengupta,** Steno cum Typist, KVK, Khowai, Tripura. **Mr. Rakesh Debnath,** Driver, KVK, Khowai, Tripura. **Mr. Manmohan Debnath,** Driver, KVK, Khowai, Tripura. **Mr. Manas Debbarma,** Supporting Staff, KVK, Khowai, Tripura. **Mr. Gautam Debbarma,** Supporting Staff, KVK, Khowai, Tripura.		training to the farmers **Recommendation:**KVK should popularize various govt. schemes through training and awareness programmes. **ATR:**Awareness camps are done, leaflets are distributed **Recommendation:**Interventions related to fisheries may be increased. **ATR:**One FLD and four nos of training has been included **Recommendation:**Few interventions related to flower like gerbera, tuberose cultivation may be taken up **ATR:**Flowers cultivation has been promoted through training, advisory, supply of seeds etc **Recommendation:**More emphasis should be given in awareness programme on malnutritions **ATR:**Awareness Programme during Poshan Mela, Awareness on nutrition of child and mother has imparted to Anganwadi and ASHA workers **Recommendation:**Introduction of short duration vegetable crops and new crop like onion may be emphasized. **ATR:**Farmers were trained on onion cultivation and got demonstrations in collaboration with CAT and ICAR Tripura centre. **Recommendation:**Paira cropping of lentil and khesari in fallow land may be encouraged **ATR:**Experiment was conducted at KVK farm **Recommendation:**More awareness/ training programmes on ill effect and safe use of pesticides may be conducted.

			ATR: Awareness on handling of pesticides was done through training as well as field visit
			Recommendation: An indigenous fruit block may be established by KVK inside the campus to conserve the extinct species. **ATR:**Traditional fruit crops like Tamarind, Amla, Haritaki, Star Gooseberry, Desi mango, Jackfruit, Ber etc are maintained at KVK farm

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-loamysand. 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.

2.3 Soil types

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. 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**	-
C	Potato	632	11452	18.12025
	Total	**632**	**11452**	-
	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:

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	1.00	25.05	11.72	93.08	57.69
February	0.00	26.95	10.62	91.63	49.79
March	51.0	33.25	17.32	92.98	31.33
April	162.6	32.85	22.42	96.18	46.69
May	225.9	32.4	23.22	87.68	53.79
June	286.2	31.15	24.92	83.98	64.29
July	376.45	30.75	25.12	82.58	51.29
August	214.2	30.45	25.32	77.08	49.59
September	214.5	31.05	24.92	84.18	47.79
October	101.4	31.45	24.02	75.08	47.09
November	11.6	29.45	17.85	63.48	44.35
December	0.0	26.55	**12.04**	**60.23**	**41.4**

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	-	-	-

2.7 Details of Operational area / Villages (2022)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem Identified	Identified thrust area
1	R.C Ghat	Khowai	Namapara	Paddy, Toria	Low Yield of Paddy due to Phosphorus deficiency ,Mono Cropping of Paddy, Micronutrient Deficiency in Mustard	Soil Fertility Management ,Crop Diversification

2	R.C Ghat	Khowai	Batapura	Paddy, bottle gourd, Crucifers	Low Yield of Paddy due to Phosphorus deficiency, Higher nos. of male flower, Diamond Back Moth	Soil Fertility Management
	R.C Ghat	Khowai	Namapara	Sweet potato	unavailability of suitable variety	Popularization of variety
3	North Pulinpur	Teliamura	North Pulinpur & Duski ADC Village	Maize	Soil acidity leading to low Maize Yield	Soil acidity amelioration with liming
4	Kalyanpur	Kalyanpur	Durgapur	Cabbage, Tomato	Excessive Use of Chemical Fertilizers in Cabbage, unavailability of suitable tomato variety	Organic Management
6	Kalyanpur	Kalyanpur	Madhya krishnapur	Brinjal	Economical loss due to High weed infestation in Brinjal	Weed Management
7	Kalyanpur	Kalyanpur	Gopalnagar	Colocasia	Poor nutrient management	INM
	Kalyanpur	Kalyanpur	Durgapur	Tomato	unavailability of suitable tomato variety	Varietal evaluation
	Kalyanpur	Kalyanpur	Madhya krishnapur	Brinjal, Pointed gourd	Economical loss due to High weed infestation in Brinjal	Weed Management
8	Padmabil, R.C Ghat, Chebri Raj Nagar	Padmabil, Khowai, Tulashikhar	Ratanpur, North Chebri, Ramchandraghat, Batapura, Paschim Rajnagar, Gour nagar	Hybrid Paddy	Low yield of existing varieties of paddy due to repeated use	To increase the production of cereals crop
9	Sardu Karkari	Teliamura	Sardu Karkari	Farmers Club	Less knowledge (Not maintaining proper records Improper management of farmers clubs)	Group mobilization

10	Khowai, Tulashikhar	Khowai, Tulashikhar	West Sonatala, Rajnagar, Shantinagar	Millet, jackfruit seeds, maize based Value added products. Pulse and Rice based Value added products, Nutri Garden	Malnutrition	Human Health & Balance Diet of the women
11	Sardu Karkari	Teliamura	Hrankhawl Para	Cucurbits	Melon fly	Ecofriendly melonfly management
12	Ghilatali, Ganki Chebri	Kalyanpur, Khowai	Ghilatali, Ganki, West Chebri	Fodder	Low cultivation of nutritious fodder	To increase the production of nutritional fodder during lean period
13				Poultry	Less housing arrangements for poultry	To reduce incidence of disease due to adverse weather condition & increased germ load
14				Pig	No regulation in temperature for Piglets	To reduce death of piglets due to extreme cold weather
15				Pig	No creep feeding for piglets	To enhance growth of Piglets & reduce mortality by providing nutritional feed in creep box
16	Hawaibari	Teliamura	NKR Para ADC Village	Paddy in Jhum Lands	Unavailability of Suitable HYV for Jhum lands	Varietal Evaluation
16	R.S Para	Kalyanpur	Nakshirai ADC Village	Bitter Gourd	Indiscriminate use of Chemicals leading to poor soil Health	Natural Farming
17	Sardu Karkari	Teliamura	Nayanpur	Cabbage	Indiscriminate use of Chemicals in Cabbage,	Organic Management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2022

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Agronomy & Soil Science	2	2	10	10	4	4	120	120
Horticulture	2	2	8	10	2	2	10	15
Home Science	2	2	10	14	2	2	20	46
PP	2	2	10	10	2	2	20	20
Agril Extn	1	1	60	131	1	1	120	120
A.Sc	2	2	6	6	2	2	20	20
Total	**11**	**11**	**124**	**199**	**13**	**13**	**310**	**341**

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**
Agronomy/ Soil Sci.								
Farmers	5	5	100	105	-	-	-	-
Rural youth	5	5	100	125	-	-	-	-
EF	2	3	40	82	-	-	-	-
Horticulture					-	-	-	-
Farmers	6	6	120	133	-	-	-	-
Rural youth	4	4	80	100	-	-	-	-
EF	2	2	40	50	-	-	-	-
Plant Protection					-	-	-	-
Farmers	5	7	100	181	-	-	-	-
Rural youth	5	4	100	124	-	-	-	-
EF	2	1	40	24	-	-	-	-
Home Science					-	-	-	-
Farmers	7	8	140	180	-	-	-	-
Rural youth	4	5	80	127	-	-	-	-
EF	1	0	20	0	-	-	-	-
Agril Extension					-	-	-	-
Farmers	4	4	80	83	-	-	-	-
Rural youth	4	4	80	94	-	-	-	-
EF	2	2	40	42	-	-	-	-

Animal Science					-	-	-	-
Farmers	5	6	100	130	-	-	-	-
Rural youth	5	7	100	193	-	-	-	-
EF	2	1	40	20	-	-	-	-
Total	**70**	**74**	**1400**	**1793**	**754**	**1161**	**4960**	**11788**

Seed Production (ton.)		**Planting material (Nos. in lakh)**	
Target	**Achievement**	**Target**	**Achievement**
35	69	0.3375	0.55608

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2022

Sl. No	**Thrust area**	**Crop/ Enterprise**	**Identified problems**	**Interventions**					
				Title of OFT if any	**Title of FLD if any**	**Title of Training if any**	**Title of training for extension personnel**	**Extension activities**	**Supply of seeds, planting materials etc.**
1	Organic Management	Cabbage	Indiscriminate use of Chemical fertilizer in Cabbage	Organic Management in Cabbage	Nil	Preparation of Vermi-compost and its utilization in Agriculture	Nil	Nil	Cabbage Seedlings: 2000 no"s Rock Phosphate: 100 kg Vermicompost : 1200 kg
2	Integrated Nutrient Management	Mustard	Zn and Boron deficiency in Mustard	Assessment on the Performance of Application of 0.1% Boron & 0.5% ZnSO4 during flowering stage in Indian Mustard	Nil	Integrated Nutrient Management in Mustard	Nil	Nil	Borax: 1 kg Zn EDTA: 1 kg

3	Soil Fertility Management	Paddy	Phosphorus deficiency under acidic soils of Tripura		Popularization of SSP-mc slurry method of P management in Paddy	Hand hold training on Soil Testing	Nil	Field Day on Popularization of SSP-mc slurry method of P management.	Paddy Seed var. Gomoti Rock Phosphate: 900 kg
4	Natural Farming	Bitter Gourd	Indiscriminate use of Chemicals leading to poor soil Health		Popularization of Natural farming to improve soil health and yield in bitter-gourd.	Training on Natural Farming	Nil	Field Day on Natural Farming in Bitter Gourd	Drum:1 no(50 lit) Bitter Gourd Seeds: 500 g
5	Varietal Evaluation	Paddy	Unavailability of Suitable HYV of Paddy for Jhum Cultivation.		Popularization of Paddy var. Tripura Hakuchuk-2	Nil	Nil	Field day on Popularization of Paddy var. Tripura Hakuchuk-2	Paddy Seed var. Tripura Hakuchuk-2,Qty: 100 kg
6	Varietal Evaluation	Toria	Lack of suitable Toria varieties under Tripura Condition		Popularization of Toria var. Tripura Toria	Nil	Nil	Field Day on Popularization of Toria var. Tripura Toria	Toria seed var. Tripura Toria qty: 70 kg
7	Varietal Evaluation	Tomato	Less income due to non availability of suitable crop variety of Tomato	Varietal evaluation of Tomato TO1:Arka Rakshak TO2: Arka Samrat TO3: Arka Abhed TO4: Farmer Practice	-	-	-	Field Visit	Tomato Seeds

8	Weed Management	Brinjal	Low Yield of Crop due to poor Weed management	Integrated Weed management in Brinjal TO1: Oxadiarygyl 9.0 kg/ha followed by garden hoeing at 30 and 60 DAP TO2: Polythene Mulching with 25 mir TO3: Farmer Practice	-	-	-	Field Visit	Polythene mulch and weedicide
9	INM	Pointed gourd	Excessive Application of Chemical Fertilizer and pesticide	-	Popularisation of Natural Farming in Pointed Gourd Component : T1: Use of Jivamrita, Beejamrit T2: Farmers Practice		-	Method demonstration, Field Visit	Drum for preparation of Jeevamrit and beejamrit
10	INM	Sweet Potato	Unavailability of suitable variety	-	Popularization of Biofortified Variety of Sweet Potato var. Bhu Krishna	Production and management technology of tuber crops	-	Method demonstration, Field Visit	Planting material
11	IPM	Chilli	Low income due to chilli leaf curl disease	Refinement of Bio-intensive Chilli Thrips Management	Nil	Integrated management of pest and diseases in vegetables	Nil	Method demonstration, diagnostic visit	Seedling, sticky traps
12	IPM	Brinjal	Low production, due to brinjal fruit Borer Damage	Refinement of BIPM Module Against Fruit Borer of Brinjal	Nil	Integrated management of pest and diseases in vegetables	Nil	Method demonstration, diagnostic visit	Seedling, pheromone traps
13	IPM	Watermelon	Harvested damage is high	Nil	Management of Fruit fly in Watermelon	Nil	Low cost bait preparation	Method demonstration, diagnostic visit	Seedling, pheromone traps

14	IPM	Brinjal	Low production, due to brinjal fruit Borer Damage	Nil	Management of Fruit and Shoot Borer in Brinjal	Integrated management of pest and diseases in vegetables	Nil	Method demonstration, diagnostic visit	Seedling, pheromone traps
15	Livestock production and management	Dairy	Delayed pregnancy Diagnosis Severity=80%	T1: Monoclonal antibody based progesterone assay for early pregnancy diagnosis in cattle T2: Recto-cervical palpation method T3: Farmer's Practice (Visual observation)	-	Scientific Livestock & Poultry farming methods at backyard and income generating activities	-	Method demonstration, scientist's visit, group discussion	Assisting pregnancy diagnosis
16	Housing	Rabbitary	High Mortality of rabbit Severity=80%	T1: Automatic Waterer for Rabbit T2: Plastic water bottle T3: Farmer's Practice (Providing water in utensils)	-	Reducing production cost in livestock & Poultry rearing	-	Method demonstration, scientist's visit, group discussion	Automatic water bottles
17	Poultry farming	Poultry	-	-	Rearing High Yielding Variety of Birds	Scientific Livestock & Poultry farming methods at backyard and income generating activities	-	Method demonstration, scientist's visit, group discussion	Supply of chicks
18	Sheep and goat rearing	Goat	-	-	Rearing High Yielding Breed of Goats	Utilizing resources optimally while rearing livestock & poultry		Method demonstration, scientist's visit, group discussion	Artificial Insemination with Beetal buck semen
19	Fisheries Management	Fish	-	-	High Density Mono Crop Fish Culture	High Density Mono Crop Fish Culture	-	Method demonstration, scientist's visit, group discussion	Supply of fingerlings

20	Utilization of jackfruit seeds	Jackfruit seed flour	Low market price , Shelf life, storage	Assessment of Jack fruit seed flour	-	Cereals based Nutri-Products with jackfruit seeds flour		Training, method demonstration, Field visit	Jackfruits seeds, ingredients
21	Utilization of marketable surplus of bamboo for value addition	Bamboo (Non timber forest product)	Low price during peak season, waste	Performance evaluation of fermented bamboo shoot for value addition	-	Processing , preservation and value addition of Bamboo shoot	--	Training, method demonstration, Field visit	Bamboo shoot, Bamboo basket
22	Nutrition, Economic, waste land utility	Nutritional garden	Consume lack of vegetables	-	Grow Round the year nutritional garden	Nutritional gardening for nutritional food security	-	Training, method demonstration, Field visit	Vegetable seeds, seedling,
23	Utilization of Paddy straw, income generation, produce nutritional food	Mushroom (*Pleurotus* spp.)	Paddy straw waste, lack of cultivation knowledge	-	Round the year Oyster mushroom cultivation for income generation	Mushroom Production technology round the year at low cost	-	Training, method demonstration, Field visit	Mushroom spawn, Polypropylene bag

3.1 Achievements on technologies assessed and refined during 2022

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	-	-	-	-	1	-	-	-	-	1

Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	1	-	-	-	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	1		1		2
Integrated Pest Management	-	-	-	-	2	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
Organic Management	-	-	-	-	1	-	-	-	-	1
TOTAL	-	1	-	-	5	1		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	-	2
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	-	-	-	-	-	-		-
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 (Data on the parameter should be provided)				Feedback from the farmer	Feedback to the Researcher	B:C Ratio (if applicable)
1	Organic Management in Cabbage	Indiscriminate application of Chemical fertilizers in Cabbage	Organic Management in Cabbage TO1:Azotobactor & PSB @ 75 g each per 1000 seedling Rock Phosphate @ 375 kg/ha Vermi-Compost @ 5	Cabbage	5	Yield: T_1 :433 q/ha T_2: 490 q/ha T_3: 410 q/ha Weight of Per Head Cabbage:	Initial Soil Parameters: Soil Texture: Sandy loam, Soil $P^{H::}$ 5.5 Organic	Post Harvest Soil Parameters: Soil Texture: Sandy loam Soil $P^{H::}$	Economics: Gross Income(Rs/ha): T_1: 34,64,00.00 T_2: 3,92,000.00 T_3:3,28,000.00 Gross Cost:	Getting Critical inputs like Rock Phosphate is difficult for the farmers, moreove	Instead of 100% organic management of Cabbage,Integrate	**BCR:** T_1: **3.78** T_2: 3.93 T_3:3.66

			ton/ha TO2: Application of only NPK: 200: 120:222 TO3: Farmers Practice(Control)			$T_{1:}$ 1.05 kg T_2: 1.10 kg T_3: 1 kg	carbon:0.61 Available Nitrogen(Kg/ha) : 282 Available P_2O_5 by Bray"s method(Kg/ha): 11.7 Available K_2o(Kg/ha): 162	5.2 Organic carbon:0.61 Available Nitrogen(Kg/ha) : 283 Available P_2O_5 by Bray"s method (Kg/ha): 11.4 Available K_2o(Kg/ha): 164	T_1: 91,575.00 T_2: 99,685.00 T_3: 89,480.00 **Net Income(Rs/ha):** **T_1:** 254,825.00 **T_2:** 292,315.00 **T_3:** 238,520.00	r the cost of Vermicompost is very high in the market. Availability of PSB and Azotobactor is also a problem for the farmers, hence 100% organic management of cabbage is difficult.	d Nutrient management in cabbage can be a better option for the farmer of Khowai district of Tripura.	
2	Assessment on the Performance of Application of 0.1% Boron & 0.5% ZnSO4 during	Poor Yield due to low fertility status of soil in Indian Mustard	Assessment on the Performance of Application of 0.1% Boron & 0.5% ZnSO4 during flowering stage in Indian Mustard TO1: Application of 0.1% Boron & 0.5%	Indian Mustard	5	Yield: $T_{1:}$ 11 q/ha T_2: 9 q/ha T_3:6.5 q/ha Number of	Initial Soil Parameters: Soil Texture: Sandy loam, Soil $P^{H::}$ 5.5 Organic	Post Harvest Soil Parameters: Soil Texture: Sandy loam,	Economics: Gross Income(Rs/ha): T_1: 77,000.00 T_2: 63,000.00 T_3:45,500.00 **Gross Cost:** T_1:	Farmers accepted the technology.	The technology may be recommended for Front	BCR: T_1: 2.75 T_2: 2.55

	flowering stage in Indian Mustard		ZnSO4 during flowering stage plus RDF TO2: Application of Only NPK (60:80:56) TO3: Farmers Practice(No habit of Micro nutrient Application)			Siliquae/plant**:** T_1: 22.3 $T_{2:}$ 18.5 T_3: 14.3 Siliquae length(cm): T_1: 4.3 T_2: 4.1 T_3: 3.2 Number of seeds per siliquae: T_1: 19.9 $T_{2:}$: 19.3 T_3: 18.9	carbon(%):0.66 Available Nitrogen(Kg/ha) : 296 Available P_2O_5 by Bray"s method(Kg/ha): 12.3 Available K_2O(Kg/ha): 161	Soil $P^{H::}$ 5.4 Organic carbon:0.66 Available Nitrogen (Kg/ha) : 297 Available P_2O_5 by Bray"s method (Kg/ha): 12.4Available K_2 o(Kg/ha): 162	27,927.00 T_2: 25,670.00 T_3: 24,625.00 Net Income(Rs/ha)**:** **T_1**: 49,073.00 **T_2:** 37,330.00 **T_3:** 20,875.00		Line demonstration.	T_3: 1.84
3	Varietal evaluation of Tomato	Less income due to non availability of suitable crop variety of Tomato	Varietal evaluation of Tomato TO1:Arka Rakshak TO2: Arka Samrat TO3: TO4: Farmer Practice	Tomato	30	TO1: Days to first flowering:38 Plant height:122.34 Average Weight Of Fruit: 68 g	TO2: Days to first flowering: 36 Plant height: 119 .21 Average Weight Of Fruit: 72 g	TO3: Days to first flowering: 40 Plant height: 116.51 Average Weight Of Fruit: 55 g	TO4: Days to first flowering: 36 Plant height: 120.51 Average Weight Of Fruit: 53g	Both the varieties are very much accepted by the farmer as the yields of the varieties	-	TO1: 1: 3.1 TO2: 1:3.3 TO4: 1.2.2 TO3:

						Yield per ha: 65.34t / ha Plant type: semi Determinate	Yield per ha: 68.86t/ ha Plant type: semi Determinate	Yield per ha: 57.05t/ ha Plant type: semi Determinate	Yield per ha: 60.04t/ ha Plant type: semi Determinate (There was high mortality rate just after transplanting due to damping off)	were higher than the existing variety		1.2.3
4	Integrated Weed management in Brinjal	Low Yield of Crop due to poor Weed management	Integrated Weed management in Brinjal TO1: Oxadiarygyl 9.0 kg/ha followed by garden hoeing at 30 and 60 DAP TO2: Polythene Mulching with 25 mir TO3: Farmer Practice	Brinjal	8	TO1: WCE (60DAT): 74.34 Plant Height: 165.7 cm Yield per ha: 20.2 t/ha	TO2: WCE (60DAT): 70.25 Plant Height: 195.4 cm Yield per ha: 23.3 t/ha	TO3: WCE (60DAT): 72.25 Plant Height: 175.5 cm Yield per ha: 21.3 t/ha				B:C-1: 3.1 B:C-1:33 B:C-2.8
5	Assessment of Bio-intensive Chilli Thrips	Low income due to chilli leaf curl disease	**T1:** Seed treatment with imidachloprid 70 WS @ 7g/kg, neem cake @ 250 kg/ha. at the time of sowing, Yellow Sticky	Chilli	10	Population of thrips/leaf T1:3.76	Yield (q/ha) T1:62.34	-	-	Good	Satisf actory	T1: 1:1.98

	Management		Trap @ 40nos./ha **T2:** One sprays of azadirachtin 10000 ppm @ 2 ml/l @ two WAT, neem cake @ 250 kg/ha. at the time of sowing, Yellow Sticky Trap @ 40nos./ha, application of **Neemastra** at fortnight intervel T3: Spraying of Imidachloroprid 17.8%SL at fortenight interval **T4:** Farmers Practices: (application of pesticides 2-3 times per week).			T2:2.35 T3:4.23 T4:4.85	T2:78.00 T3:53.82 T4:48.53					T2: 1:2.60 T3: 1:1.65 T4: 1:1.42
6	Assessment of BIPM Module Against Fruit Borer of Brinjal	Low production, due to brinjal fruit Borer Damage	T1.a. Growing of trap crops like marigold @ 100 per acre b.Installation of pheromone traps @ 4 per acre c.Erection of bird perches @ 10 per acre d. Application of **Brahmastra** at fortnight interval **T2.** Need based	Brinjal	10	T1: % FD: 18.44, %SD: 11.70 T2: % FD: 13.25, %SD: 8.40 T3: % FD: 24.18, %SD: 19.83	Yield (q/ha) T1: 157 T2: 180 T3: 132	-	-	Good	Satisf actory	T1: B:C-1: 3.74 T2: B:C-1: 3.88 T3: B:C-1: 2.27

			application of flubendiamide @ 0.3 ml/ lt or chlorantraniliprole @ 0.3 ml/ lt or spinosad @ 0.3 ml/ lt **T3.** Farmers practice (Non IPM) –use of chemicals alone or in combination									
7	Impact Assessment on Cluster Frontline Demonstration of Pea	Not following suitable cropping patterns	T1: Improved Technology demonstrated through CFLD T2: Farmers Practice	Pea (HUDP 15)	116	1. Average yield in case of improved tech. is higher as compare to farmers practice. 2. Gross income in case of improved tech is Rs. 59800 (2018-19), 57820 (2019-20), 45256 (2021-22) is higher than the farmers practice 3. Net return in case of improved tech. is 1.8 times higher than the farmers practice 4. Technology gap (q/ha)- 5.75, 6.5, 6.25 (2018-19, 2019-20, 2021-22) 5. Extension gap (q/ha) – 3.5 (2018-19), 4.0 (2019-20), 5.0(2021-22) 6. Tech. index (%)-164.28 (2018-19), 162.5 (2019-20), 125 (2021-22) 7. Percentage increased over farmers practice- 36.84 (2018-19), 3478 (2019-20), 42.55 (2021-22)				Good	Satisf actory	1.79 (2018-19), 1.62 (2019-20) 1.66 (2021-22)
8	Impact Assessment on Cluster Frontline Demonstration of Mustard	Not following suitable cropping patterns	T1: Improved Technology demonstrated through CFLD T2: Farmers Practice	Mustard TRC T-1-1-5-1	131	1. Average yield in case of improved tech. is higher as compare to farmers practice, i.e 10.5 q/ha 2. Gross income in case of improved tech is Rs. 52500 (2018-19), 52500 (2019-20), 55600 (2021-22) is higher than the farmers practice 3. Net return in case of improved tech. is 2.8 times higher than the farmers practice 4. Technology gap (q/ha)- 2.5, 2.5, 2.5 (2018-19, 2019-20, 2021-22)				Good	Satisf actory	1.61 (2018-19), 1.61(2019-20) 1.63

						5. Extension gap (q/ha) – 5.0 (2018-19), 5.5 (2019-20), 5.0(2021-22) 6. Tech. index (%)- 50.0 (2018-19), 45.45 (2019-20), 50.00 (2021-22) 7. Percentage increased over farmers practice- 90.90 (2018-19), 110 (2019-20), 110 (2021-22)						(2021-22)
9	**T1**: Monoclonal antibody based progesterone assay for early pregnancy diagnosis in cattle **T2:** Recto-cervical palpation method **T3:** Farmer's Practice (Visual observation)	Delayed pregnancy Diagnosis	Monoclonal antibody based progesterone assay for early pregnancy diagnosis in cattle	Cattle	6	Technology: T1:Confirmation percentage of pregnancy at first month and second is 70% and third month of pregnancy 100% T2: first month and second is 30% and third month of pregnancy 60%	**Farmer Practice** .Confirmation percentage of pregnancy at first month , second and third month of pregnancy is zero	-	-	Pregnancy diagnosis kit should be availabl e at private pharmacies	-	**NA**
10	T1: Automatic Waterer for Rabbit **T2:** Plastic water bottle **T3:** Farmer's Practice (Providing	High Mortality of rabbit	Automatic Waterer for Rabbit	Rabbit	6	Technology: **T1:** Mortality percentage of kids at first 10%, 2nd , third and fourth week of age 0 **T2 :** Mortality percentage of kids at first 10%, 2nd,	Farmer Practice: Mortality percentage of kids at first 20%, 2nd 10% third and fourth week of age 0			Rabbit consumption needs to be promoted	-	**NA**

	water in utensils)					third and fourth week of age 0						
11	Assessment of Jack fruit seed flour	Low market price , Shelf life, storage, value addition	Assessment value addition of Jack fruit seed flour	Jackfruit seeds	7	18	85Rs./ Kg	Average	78	Farmer interest to produce variety of products ,	Should create more awareness utility of jackfruits flour , regarding preparation of Cereal based Nutri-products	1: 1.75
12	Performance evaluation of bamboo shoot (blanching) for value addition	Low price during peak season, waste , storage	Performance evaluation of bamboo shoot for value addition	Bamboo shoot(Non Timber products)	7	7	-	-	accepted	Tripura Farmers prefer hot water treatment t dry Bamboo products	To facilitate good packaging for storage,	-

										due to its odd smell , Tripura People prefer hot water boiling followed by sundry bamboo shoot products	prepared value added products from dry powder bamboo oosho ot	

**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 2022

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

List of technologies demonstrated during previous years and popularized during 2022 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	Toria var. Tripura Toria	Popularization of Toria var. Tripura Toria	8	310	130

2	Paddy	Popularization of SSP-mc slurry method of P management in Paddy	2	110	40
3	Cucumber	Management of melon fly in cucumber	8	237	16
4	Brinjal	Management of brinjal shoot and fruit borer	10	198	22
5	Livelihood	Livelihood improvement through Farmers Club	4	120	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	Paddy	Integrated Nutrient Management	Popularization of SSP-mc slurry method of P management in Paddy. • 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)	Kharif, 2022	5	5.92	23	3	26	Nil	Rainfed	299	12.4	155

2	Bitter Gourd	Natural farming	Title: Popularization of Natural farming to improve soil health and yield in bitter-gourd. **<u>Technology:</u>** T1: Use of Beejamrita,Jeevamrita, Achhadhana,Wappasa in Bittergourd T2: Cultivation of Bitter Gourd with Chemical Farming	Rabi,2022	5	5.2	23	0	23	Nil	Irrigated	284	11.7	149
3	Toria	Varietal Evaluation	Popularization of Toria var. Tripura Toria	Rabi,2022	10	10.05	48	0	48	Nil	Irrigated	305	14.6	166
4	Paddy	Varietal Evaluation	Popularization of Paddy var. Tripura Hakuchuk-2	Kharif,2022	10	10.16	20	0	20	Less availability of Certified Seeds leading to shortfall in beneficiary	Rainfed	277	8.5	144

5	Pointed Gourd	INM	Popularisation of Natural Farming in Pointed Gourd **Component :** T1: Use of Jivamrita, Beejamrit T2: Farmers Practice	Kharif, 2022	1	1	5	5	10	NA	-	-	-	-
6	Sweet Potato	INM	Popularization of Biofortified Variety of Sweet Potato var. Bhu Krishna	Rabi, 2022	0.5	0.5	5	5	10	NA	-	-	-	-
7	Watermelon	IPM	**Management of Fruit fly in Watermelon** **Technology Details-** Pheromone traps @ 25 trap/ha + Gur based poison bait trap: (50 ml malathion + 200 g gur + 2 litre water) + Neemastra	Kharif, 2022	2	2	6	4	10	Nil	Rainfed	-	-	-

8	Brinjal	IPM	**Management of Fruit and Shoot Borer in Brinjal** **Technology Details-** *Mechanical control:* Clipping of drooped shoots and removal of infested fruits from the field at weekly interval *Behavioural control:* Installation of pheromone traps @ 75 per ha, starting from flower bud initiation (45 days old crop) till final harvest and changing the lures at monthly intervals *Botanical:* Application of nimbecidine 0.03% @ 3-5 ml/lit. + Brahmastra *Chemical control*: Cartap Hydrochloride 50SP @ 500-550 g/ha	Kharif, 2022	2	2	8	2	10	Nil	Irrigated	-	-	-

9	Farmers club	Livelihood	**Livelihood improvement through Farmers Club** **Technology Intervention Undertaken -** T1: Socio-Psychological factors T2: Socio Economic Condition DV- Livelihood Status	Kharif, 2022	-	-	79	37	116	Nil	NA	-	-	-

c. Performance of FLD on Crops during 2022

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	Paddy	Integrated Nutrient Management	5.92	65	62	13	70	62	Initial available P_2O_5 (kg/ha): 12.3 Post	Post Harvest Available P_2O_5 (kg/ha):12.3	52,000.00	126,100.00	74,100.00	2.42	52,000.00	120,2800.00	68,280.00	2.31

									Harvest Available P_2O_5 (kg/ha): 12.4									
2	Bitter Gourd	Natural Farming	5.2	92	97	-5.15	95	87	-	-	134,300.00	375,208.00	240,908.00	2.79	142,000.00	395,600.00	**25,360 0.00**	2.78
3	Toria	Varietal Evaluation	10.05	11	8	37.5	12.5	9.5	-	-	25,670.00	71,500.00	45,830.00	2.78	23,570	52000.00	28,430.00	2.20
4	Paddy	Varietal Evaluation	10.16	40	32	25	46	38	-	-	48,000	80,000.00	32,000	1.66	48000	64,000.00	16,000.00	1.33
5	Pointed Gourd gourd	Pointed Gourd	1	101.4	162.2	-	120.5	75.8	Length of fruit (cm): 5.14 Girth of fruit(cm): 5.14 Single fruit weight(g) :15.18	Length of fruit (cm): 6.45 Girth of fruit(cm): 6.45 Single fruit weight(g): 17.12	79000	304200	336200	3.8	110000	486600	366600	4.4
6	Sweet Potato	Bio-fortified Variety	0.5	102.9	96.73	6.39	130.5	85.76	Sweet Potato vine length at 60 DAP: 191.05 Average	Sweet Potato vine length at 60 DAP: 207.05 Average	93750	308700	214950	3.2	85000	198460	113460	2.3

									weight of tuber (g/plant): 118.63 No. of tubers/plant: 3.22	weight of tuber (g/plant): 105.64 No. of tubers/plant: 2.73							
7	Watermelon	IPM	2	210	120	42.85	312	108	Harvested damage %: 12	Harvested damage %: 27	87000	210000	123000	2.41	58000	120000	72000	2.06
8	Brinjal	IPM	2	138	87	36.95	194	82	% Fruit infestation: 7.54 %Shoot infestation:3.85	% Fruit infestation: 18.35 %Shoot infestation: 12.11	52000	118550	66550	2.27	38000	72580	34580	1.91

*H-Highest recorded yield, L- Lowest recorded yield** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost RatioProduce Sale Price must be as per MSP or Registered Marketing Society Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC*Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.*

d. Extension and Training activities under FLD on Crops

Sl. No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	6	02.02.2022; 10.02.2022; 11.02.2022; 16.05.2022; 17.08.2022; 23.08.2022; 22.11.22	234	172	406	-
2	Farmers Training	3	4.04.2022; 12.06.2022; 19.08.2022	41	23	64	-
3	Media coverage	28	Mass Coverage				
4	Scientist's visit	77	Throughout the year				
5	Diagnostic visit	25	Throughout the year				
6	Method demonstration	9	Throughout the year				

	Total	**148**	**-**	**-**	**-**	**-**	**-**

e. Details of FLD on Enterprises

(i) Farm Implements

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

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

Sl. No.	**Enterprise/ Category (e.g., Dairy, Poultry etc.)**	**Thematic area**	**Name of Technology**	**No. of farmers**	**No. of units**	**No. of animals, poultry birds etc.**	**Major Performance parameters / indicators**		**% change in the parameter**	**Other parameters (if any)**		**Econ. of demo. (Rs./Ha.)**				**Econ. of check (Rs./Ha.)**				**Remarks**
							Demo	**Check**		**Demo**	**Check**	**GC****	**GR****	**NR****	**BCR****	**GC**	**GR**	**NR**	**BCR**	
1	Poultry	Breeds	Rearing High Yielding variety of birds	10	10	60	1.Body weight gain at interval of every fortnight upto six months of	1.Body weight gain at interval of every fortnight upto six		-	-	915/bird/yr	2560 /bird/yr	1645 Bird/yr	2.8	750/bird/yr	1260/bird/yr	510/bird/yr	1.7	

							age: 1.9 kg at six month 2. Age at first laying: 22 weeks 3. Yearly egg production: 180/year	months of age: 0.9 kg at six month 2. Age at first laying: 26 weeks 3. Yearly egg production 90/year										
2	Goat	Breeding	Rearing High Yielding Breed of Goats	10	10	60	1.Body weight gain at interval of every fortnight upto six months of age: B. wt at six month:17 kg 2. Age at first oestrous: 5.5 month 3. Mortality	1.Body weight gain at interval of every fortnight upto six months of age. wt at six month:8 kg 2. Age at first oestrous :		-	-	3220 goat/ year	11000 goat/ year	7780 goat/ year	3.4	2850 goat/ year	8000 goat/ year	5150 goat/ year	2.8	

							of kids upto weaning: 0	7 months 3. Mortality of kids upto weaning: 0.5											

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Koi Fish	Fishery	High Density Mono Crop Fish Culture	14	14	2800	Body weight gain of fishes at monthly interval upto 4	Body weight gain of fishes at monthly interval upto 4	16.7 %	-	-	195000	375000	180000	1.9	129000	225000	96000	1.74	

							months: 35 gm/ fish 2. Fish production per hectre water area per year: 1500kg	months: 30 gm/fish 2. Fish production per hectre water area per year 900kg												

** *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**	
	Mushroom	Mushroom	Low cost	19	50 bag	Yield=0.950kg/bag Economics:	Yield=0.700kg/bag	40%			60.00/	190.0	130.0		55.00/bag	120.00	65.00/	1:100	

		production for income generation	Mushroom production round the year		s/ farmer	Sale =Rs. 200.00/kg Total= 50 bag X 190.00 =9,500.00	Economics : Sale =Rs. 200.00/kg Total= 50 bag X 140.00 = 7000.00				bag	0	0		g		bag		

** *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 2022

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

Discipline	**Area of training**	**Title of the training programme**	**Date (From – to)**	**Duration in days**	**Venue**	**Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)**	**General participants**			**SC/ST**			**Grand Total**		
							M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Soil Science	Soil and Water Conservation	Recent advances in Soil and Water Conservation for better management of natural resources	5.01.2022	1	KVK, Khowai	Extension Personal	7	10	17	9	13	22	16	23	39

Soil Science	Vermicomposting	Preparation of Vermicompost and its utilization in Agriculture and Horticulture	4.02.2022	1	KVK, Khowai	Farmers and Farm Women	0	0	0	5	10	15	5	10	15
Soil Science	Natural Farming	Training Programme on Natural Farming	23.11.2022-24.11.2022	2	KVK, Khowai	Farmers and Farm Women (Sponsored)	4	3	7	24	16	40	28	19	47
Horticulture	Package of practice	Off Season vegetable cultivation	11.11.22	1	KVK	EP	9	0	9	7	5	12	16	5	21
Horticulture	Floriculture	Propagation of major Horticultural crops	6.08.22	1	KVK	RY	7	3	10	10	8	18	17	11	28
Horticulture	Orchard Management	Orchard Management	12.7.22	1	KVK	F & FW	7	5	12	8	0	8	15	5	20
PP	IPM	Low cost bait preparation	14.12.2022-15.12.2022	2	KVK, Khowai	EP	5	1	6	16	2	18	21	3	24

PP	Mushroom	Mushroom production	20.10.2022-21.10.2022	2	KVK	RY	5	2	7	12	8	20	17	10	27
Agril. Extension	Entrepreneurship	Entrepreneurship Development	18.12.22 - 19.12.22	2	KVK, Khowai	RY	13	2	15	4	3	7	17	5	22
Fisheries	Fisheries Management	High Density Mono Crop Fish Culture	8th November 2022	1 day	KVK	Farmer & Farm women	5	2	7	7	0	7	12	2	14
Animal Sc	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	16th Nov, 2022	1 Day	KVK	RY	1	19	20	2	9	11	3	28	31
Animal Sc	Piggery	Pig Rearing and Management	14th -20th March, 2023	7days	KVK	RY	2	3	5	0	10	10	2	13	15

Home Science	Food Processing	Beneficiary classroom training on ODOP-Rice based products for individual beneficiaries	16TH , 17TH and 19thMarch,2022	3	KVK Hall	RY	7	10	17	1	2	3	8	12	20
Home Science	Food Processing	Beneficiary classroom training on ODOP-Rice based products for individual beneficiaries	26th , 28th , and 29th March, 2022	3	KVK, Hall	RY	4	8	12	2	7	9	6	15	21
Home Science	Food Processing	Beneficiary classroom training on ODOP-Rice based products for individual beneficiaries	31st Mar,1-2 April, 2022	3	KVK, Hall	RY	0	0	0	7	22	29	7	22	29

Home Science	Mushroom	Low cost mushroom production round the year	16th-15th June, 2022	2	KVK, Hall	RY	0	0	0	21	0	21	21	0	21
Home Science	Food Processing	Beneficiary classroom training on Non-ODOP-Multiple fruit processing for individual NGO/Beneficiary	4th -6th July, 2022	3	KVK, Hall	RY	6	0	6	15	6	21	21	6	27
Home Science	Food Processing	Seed Capital (SHG) Training programme on Food Processing for Entrepreneurship development	5.11.2022	1	KVK, Hall	FW(SHG)	0	9	9	0	11	11	0	20	20

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	Vermicom posting	Preparation of Vermicompost and its utilization in Agriculture	23.02.2022	1 Day	Durgapur	Farmer & Farm women	7	7	14	11	4	15	18	11	29
Soil Science	Natural Farming	Preparation of Jeevamrit and its use in Agriculture and Horticulture	24.03.2022	1 Day	North Pulinpur	Farmer and Farm Women	0	0	0	13	12	25	13	12	25
Soil Science	Natural Farming	Preparation of Jeevamrita and its use in Agriculture and Horticulture	4.04.2022	1 Day	Nakshi Rai ADC Village	Farmer and Farm Women	0	0	0	13	10	23	13	10	23
Soil Science	Organic Farming	Preparation of Panchyagavya and its utilization in Agriculture and Horticulture	19.04.2022	1 Day	Naba Kumar Hrankhawl Para ADC Village	Rural Youth	0	0	0	7	8	15	7	8	15
Soil Science	Soil Testing	Hand hold training on Soil Testing	28.04.2022	1 Day	Durgapur	Rural Youth	9	4	13	5	4	9	14	8	22
Soil Science	Organic Farming	Preparation of Panchyagavya and its utilization in Agriculture and Horticulture	1.06.2022	1 Day	Nayanpur	Rural Youth	0	0	0	28	2	30	28	2	30
Soil Science	Organic Farming	Preparation of Panchyagavya and its use in Agriculture and Horticulture	30.06.2022	1 Day	Namapara	Rural Youth	2	1	3	21	0	21	23	1	24

Soil Science	Vermicom posting	Preparation of Vermicompost as a source of Income Generation	9.07.2022	1 Day	Tuiching gram Bari ADC Village	Farmers and Farm Women	0	0	0	0	13	13	0	13	13
Soil Science	Soil Testing	Hand hold training on Soil Testing	22.09.202 2	1 Day	West Sonatala	Rural Youth	25	2	27	0	7	7	25	9	34
Soil Science	Soil and Water Conservati on	Recent advances in Soil and water Conservation for better management of natural resources	22.10.202 2	1 Day	Namapara	Extension Personal	3	0	3	30	10	40	33	10	43
Horticulture	Nursery	Nursery raising technique	23.9.22	1	Hrangkhwa lpara	F & FW	11	0	11	9	7	16	20	7	27
Horticulture	Nursery	Nursery raising technique	12.8.22	1	R.C Ghat	F & FW	0	0	0	24	4	28	24	4	28
Horticulture	Package of practice	Production and management technology of tuber crops	17.09.22	1	Madhya Krishnapur	F & FW	3	5	8	10	7	17	13	12	25
Horticulture	Package of practice	Scope of Flower Cultivation	16.06.22	1	W. Rajnagar	F & FW	3	15	18	0	0	0	3	15	18
Horticulture	Orchard Manageme nt	Production and management technology of tuber crops	6.05.22	1	R.S Para	F & FW	5	10	15	0	0	0	5	10	15
Horticulture	Floriculture	Propagation of major Horticultural crops	19.08.22	1	North Chebri	RY	0	4	4	3	15	18	3	19	22
Horticulture	Package of practice	Off Season vegetable cultivation	11.02.22	1	Durgapur	EP	16	9	25	1	3	4	17	12	29
Horticulture	Package of practice	Scope of Flower Cultivation	7.06.22	1	Sonachara	RY	1	2	3	19	8	27	20	10	30
Horticulture	IFS	Horticulture based IFS	18.11.202 2	1 Day	Nayanpur	RY	2	2	4	6	10	16	8	12	20
PP	IPM	Integrated management of pest and diseases in summer vegetables	1.4.2022-2.4.2022	2	Boltali	Farmer & Farm Women	0	0	0	21	6	27	21	6	27
PP	IPM	Integrated management of pest and diseases in summer vegetables	4.4.2022-5.4.2022	2	RC Ghat	Farmer & Farm Women	0	0	0	10	12	22	10	12	22
PP	IPM	Integrated management of pest	13.5.2022-	2	Batapora	Farmer &	26	0	26	14	0	14	40	0	40

		and diseases in rabi vegetables	14.5.2022			Farm Women									
PP	IPM	Integrated management of pest and diseases in rabi vegetables	15.6.2022-16.6.2022	2	Khamar Pukur	Farmer & Farm Women	4	20	24	3	5	8	7	25	32
PP	IDM	Integrated disease management in potato	4.7.2022-5.7.2022	2	RC Ghat	Farmer & Farm Women	8	0	8	7	2	9	15	2	17
PP	IPM	Integrated management of pest and diseases in rabi vegetables	25.8.2022-26.8.2022	2	Batapora	Farmer & Farm Women	0	0	0	19	3	22	19	3	22
PP	IPM	Integrated management of pest and diseases in rabi vegetables	2.9.2022-3.9.2022	2	Akhrabari	Farmer & Farm Women	0	0	0	14	7	21	14	7	21
PP	Beekeeping	Scientific beekeeping	14.6.2022-15.6.2022	2	Brahmacherra	RY	0	0	0	16	0	16	16	0	16
PP	Beekeeping	Scientific beekeeping	12.7.2022-13.7.2022	2	Tulashikhar	RY	0	0	0	16	15	31	16	15	31
PP	Beekeeping	Scientific beekeeping	21.9.2022-22.9.2022	2	Sonatala	RY	0	22	22	0	4	4	0	26	26
Agril. Extension	Entrepreneurship	Entrepreneurship Development	7.03.22-8.03.22	2	East Hawaibari	F&FW	12	0	12	6	2	8	18	2	20
Agril. Extension	Farmers Club	Formation & Mgt. of Farmers Club	4.04.2022-5.04.2022	2	Akhrabari	F&FW	0	0	0	22	0	22	22	0	22
Agril. Extension	Farmers Club	Formation & Mgt. of Farmers Club	5.05.2022-6.05.2022	2	RS Para	F&FW	0	0	0	9	11	20	9	11	20
Agril. Extension	Natural Farming	Training on Natural Farming	27.08.2022-28.08.2022	2	Rmchandraghat	F&FW	0	0	0	19	3	22	19	3	22
Agril. Extension	Entrepreneurship	Entrepreneurship Development	6.04.2022-7.04.2022	2	R C Ghat	RY	0	0	0	22	7	29	22	7	29
Agril. Extension	Farmers Club	Formation & Mgt. of Farmers Club	10.06.2022-	2	Akhrabari	RY	0	0	0	17	4	21	17	4	21

			11.06.2022												
Agril. Extension	Farmers Club	Formation & Mgt. of Farmers Club	17.06.2022-19.06.2022	3	East Hawaibari	RY	11	2	13	8	1	9	19	3	22
Agril. Extension	Natural Farming	Training on Natural Farming	2.09.2022-3.09.2022	2	Akhrabari	EP	0	0	0	11	10	21	11	10	21
Agril. Extension	Farmers Club	Formation & Mgt. of Farmers Club	12.10.22-13.10.22	2	Singhicherra	EP	0	18	18	0	3	3	0	21	21
Animal Sc	Livestock and Poultry	Reducing Production Cost in Livestock and Poultry Rearing	1st June, 2022	1 day	Nayanpur	Farmer & Farm women	1	0	1	23	2	25	24	2	26
Animal Sc	Livestock and Poultry	Reducing Production Cost in Livestock and Poultry Rearing	9th June, 2022	1 day	Batekha	Farmer & Farm women	18	5	23	6	0	6	24	5	29
Animal Sc	IFS	Integrated Homestead Farming Approach as a hobby and financial security	30th June, 2022	1 day	Ghilatali	RY	8	4	12	12	9	21	20	13	33
Animal Sc	IFS	Livestock and Poultry based IFS	24th May, 2022	1 day	Hrangkhalpara	Farmer & Farm women	0	0	0	5	17	22	5	17	22
Animal Sc	Livestock Management	Scientific Livestock & Poultry farming methods at backyard and income generating activities	9th Nov, 2022	1 Day	Nakshirai	RY	0	0	0	11	19	30	11	19	30
Animal Sc	Do	Do	10th Nov, 2022	1 Day	Batapura	RY	0	4	4	16	5	21	16	9	25
Animal Sc	Do	Do	15th Nov, 2022	1 Day	Chebri	RY	17	4	21	6	1	7	23	5	28
Animal Sc	IFS	Livestock and Poultry based IFS	20th April, 2022	1 Day	Radhacharan Nagar	Farmer & Farm women	0	0	0	12	7	19	12	7	19
Animal Sc	Livestock Manageme	Utilizing resources optimally while rearing livestock &	24th August,	1 Day	Samatal Padmabil	Farmer & Farm	0	0	0	20	0	20	20	0	20

	nt	poultry	2022			women									
Animal Sc	Livestock Management	Extension service, voluntary work and public service through livestock related activities	5th July, 2022	1 Day	Khowai	EP	11	0	11	9	0	9	20	0	20
Home Science	Nutrition	Nutritional gardening for food and nutritional security	23.2.2022	1	West Rajnagar	FW	0	0	0	0	20	20	0	20	20
Home Science	Post harvest	Value addition, processing, post harvest management for self employment	5th -6th April, 2022	2	West Rajnagar	FW	0	0	0	0	23	23	0	23	23
Home Science	Value addition	Value addition, processing, post harvest management for women empowerment	7-8th April, 2022	2	South Maharanipur, Mungiakami	FW	0	0	0	0	29	29	0	29	29
Home Science	Drudgery Reduction	Drudgery reduction Technology for farm women	19.4.2022	1	Tuikoi Joydhan Para	PF/FW	0	0	0	11	6	17	11	6	17
Home Science	Nutritional garden	Household Nutritional gardening for food security	6.6.2022	1	Sonachera, Shantinagar	Pf/FW	9	7	16	1	1	2	10	8	18
Home Science	Postharvest	Bamboo shoot processing, preservation and their value addition for income generation	8th and 11th July, 2022	2	Pramodnagar (Tuichingrambari)	FW	0	0	0	0	21	21	0	21	21
Home Science	Nutri-garden	Nutri-gardening for Nutritional security	21st Sept-22nd Sept, 2022	2	West Sonatala	FW	0	8	8	0	24	24	0	32	32

(D) Vocational training programmes for Rural Youth

Crop /	**Date**	**Durat**	**Area of**	**Training**	**No. of Participants**	**Impact of training in terms of Self**	**Whether**

Enterprise	(From – To)	ion (days	training	title*	General			SC/ST			Total			employment after training				Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*training title should specify the major technology /skill transferred

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

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

Vocational	RY	20.03.2023-26.03.2023	7	Horticulture	Floriculture	Skill training of rural youth on Floriculture	0	7	7	0	8	8	7	8	15	MANAGE, Hydrabad	42000/-
On	F and FW	23.11.2022-24.11.2022	2	Soil Science	Natural Farming	Training Programme on Natural Farming	4	3	7	24	16	40	28	19	47	Ministry of Agriculture and FW, Govt of India	40000/-
On	RY	14th -20th March, 2023	7	Animal Sc	STRY	Pig Rearing and Management	2	3	5	0	10	10	2	13	15	MANAGE, T-SAMETI	42000/-
On	RY	16th , 17th and 19th March,2022	3	Home Sc	Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	7	10	17	1	2	3	8	12	20	DIC, PMFME, Agartala Govt Of Tripura	54480/-
On	RY	26th , 28th , and 29th March, 2022	3	Home Sc	Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	4	8	12	2	7	9	6	15	21	DIC, PMFME, Agartala Govt Of Tripura	57204/-

On	RY	31st Mar,1-2 April, 2022	3	Home Sc	Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	0	0	0	7	22	29	7	22	29	DIC, PMFME, Agartala Govt Of Tripura	78,996/-
On	RY	4th -6th July,2022	3	Home Sc	Fruits and Vegetable based processing and value addition, packaging	Beneficiary classroom training on Non-ODOP-Multiple fruit processing for individual NGO/Beneficiary	6	0	6	15	6	21	21	6	27	DIC, PMFME, Agartala Govt Of Tripura	73,548/-
On	FW(SHG)	5.11.2022	1	Home Sc	Fruits and Vegetable based processing and value addition, packaging	Seed Capital (SHG) Training programme on Food Processing for Entrepreneurship development	0	9	9	0	11	11	0	20	20	DIC, PMFME, Agartala Govt Of Tripura	22,840/-

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 2021

Sl. No.	Extension	Topic	Date and	No. of	Participants

	Activity		duration	activities	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	Advisory services on Crops disease and pest, soil health, natural farming, animal diseases , Mushroom cultivation, Food processing, vegetable cultivation	Throughout the year	495	234	80	314	388	82	470	0	0	0	622	162	784
2.	Diagnostic visit	Different demonstrate crops field, mushroom , nutri-garden, Plant pest disease, animal science	Throughout the year	25	4	3	7	117	53	170	0	0	0	125	56	181
3.	Field day	Field day on “Winter High value low volume vegetable production”	9.2.2022, 1 day	1	0	0	0	35	19	52	0	1	1	35	20	55
		Field Day on” Cluster Demonstration of Potato Var. Kufri Jyoti”	10.2.2022, 1 day	1	0	1	1	46	6	52	0	0	0	46	7	53
		Field Day on “Popularization Nutri-garden”	11.2.2022, 1 day	1	3	38	41	1	8	9	1	1	2	5	47	52
		Field day on “Popularization of paddy var. Of Tripura Hakuchuk-2”	17.8.2022, 1 day	1	0	0	0	10	13	23	0	0	0	10	13	23
		Promotion of Beejamrit in Jhum paddy	23.8.2022, 1 day	1	0	0	0	15	36	51	0	0	0	15	36	51

		Popularization of SSP slurry method for P- management	22.11.2022, 1 day	1	6	2	8	36	9	45	0	0	0	42	11	53
4.	Group Discussion	Group meeting with World Bank official and other line department with farmers of Radhacharan Village Council and KVK staff	3.5.2022, 1day	1	04	01	5	9	5	14	3	0	3	16	5	21
		Group discussion on formation of Cooperative	6.8.2022, 1day	1	0	0	0	35	0	35	0	0	0	35	0	35
5.	Kisan Mela	Legal service cum Krishi Mela at Tulashikhar	3rd April, 2022, 1 day	1	0	0	0	156	175	331	7	8	15	163	183	346
		Legal service cum Krishi Mela at Chebri H.S School	10th April, 2022, 1 day	1	145	158	303	75	57	132	12	9	21	232	224	456
		Skill cum Krishi mela Mela at Bidya Niketan school field	15th Nov-17th Nov, 2022, 3 days	1	265	298	563	145	192	337	14	8	22	424	498	922
		Kisan mela under Jalshakti Abhiyan	15.9.2022, 1day	1	21	23	44	32	25	57	3	0	3	56	28	114
6.	Farmers Visit to KVK	Farmers visited to KVK for the purpose of advisory, suggestions, purchase seeds and seedling, consultation pest disease management, soil health , Mushroom spawn, food Processing , Farmers club formation	Throughout year	439	191	41	232	307	51	358	0	0	0	498	92	590
7.	Exhibition	Winter vegetable, Nutri-garden, Legal Services mela,	Throughout the year	7	456	526	982	412	378	790	18	13	31	886	917	1803

		Skill mela, Jalshakti Abhiyan, Pushan														
8.	Scientists visit to farmers fields	Different demonstrated crops field, Animal Sc, Home Sc FLD, OFT, CFLD, NFFSM	Throughout the Year	77	54	75	129	346	204	550	0	0	0	400	279	679
9.	Plant/ Animal Health camp	Plant disease diagnostic, identification of pest and diseases and suitable recommendation	13.05.2022; 22.10.2022; 28.10.2022	3	155	169	324	182	69	251	0	0	0	337	238	575
10.	Method demonstration	Preparation of different value added products, Mushroom spawning, soil Collection, Honey bee, Seed treatment, Preparation of Beejamrit	Throughout the year	9	48	3	51	126	42	168	0	0	0	174	45	219
11.	Celebration of important days	Campaign on World Pulses Day's	10.2.2022, 1 day	1	17	0	17	13	0	13	0	0	0	30	0	30
		Celebration of Women Day	8.3.2022, 1 day	1	4	27	31	0	20	20	1	0	1	5	47	53
		Jalshakti Abhiyan (Training cum Input distribution	19.4.2022, 1day	1	0	0	0	7	8	15	0	0	0	7	8	15
		Awareness Programme, Natural Farming as a part of Bhagidari Prathamika (Durgapur)	28.4.2022, 1 day	1	24	15	39	6	8	14	0	0	0	30	23	53
		Jalshakti Abhiyan(Training)	20.5.2022, 1 day	1	0	0	0	48	8	56	0	0	0	48	8	56
		International Yoga Day/ Awareness balance fertilizer, Agroforestry	21.6.2022, 1 day	1	16	12	28	11	1	12	0	0	0	27	13	40

		Aawreness programme on Natural farming (Pramodnagar)	12.7.2022, 1 day	1	0	0	0	16	16	32	0	0	0	16	16	32
		Celebration of ICAR Foundation day	16.7.2022, 1 day	1	0	3	3	19	5	24	0	0	0	19	8	27
		Interaction Programme of Senior Agril Economist, Agril and Food Global Practices, world Bank Group Wit KVK staff	22.7.2022, 1 day	1	7	2	9	4	0	4	0	0	0	11	0	11
		Jalshakti Abhiyan (Training) and Soil Health Camp	27.7.2022,1 day	1	0	0	0	27	37	64	0	0	0	27	37	64
		Pushan Abhiyan and Tree plantation	17.9.2022, 1 day	1	0	28	28	0	29	29	0	0	0	28	29	57
		PM Kisan Samman Sammelan	17.10.2022, 1 day	1	48	57	105	92	63	155	3	0	3	143	120	263
		Mega Potato Seed Distribution Programme	22.10.2022, 1 day	1	60	80	68	139	20	159	4	0	4	203	28	231
		Awareness cum Sacchata Campaign	28.10.2022, 1 day	1	41	31	72	14	14	28	4	3	7	69	48	117
		Sacchata Campaign cum Sanitary materials to workers	31.10.2022, 1 day	1	11	4	15	7	1	8	0	0	0	18	5	23
		Seed(IARI) Distribution Programme(West Sonatala)	22.11.2022, 1 day	1	0	27	27	0	8	8	0	0	0	0	35	35
		Seed (IARI) Distribution Programme (Nayanpur)	25.11.2022, 1 day	1	0	0	0	8	0	8	0	0	0	8	0	8

		World Soil Day Celebration (Duski)	5.12.2022, 1 day	1	0	0	0	24	21	45	0	0	0	24	21	45
		Visit of Shri Pranajit Singha Roy Honourable Agriculture and Farmers Welfare Minister, Govt. Of Tripura	14.12.2022, 1 day	1	8	5	13	28	2	30	5	0	5	41	7	48
		Celebration of National Farmer's Day	23.12.2022,1 day	1	40	24	64	26	6	32	0	0	0	66	30	96
12.	Exposure visits	Exposure visited to Nagichera HRC under SCSP	14.2.2022, 1 day	1	0	0	0	23	10	33	4	4	8	27	14	41
		Exposure visited by Pranavanada Vidya Mandir, Khowai to KVK	16.2.2022, 1 day	1	20	22	42	3	1	4	4	4	8	27	27	56
		Exposure visited by Pranavanada Vidya Mandir, Khowai to KVK	17.2.2022, 1 day	1	27	18	45	6	5	11	5	3	8	38	19	57
		Exposure visited by Ramthakur Pathsala Girls H.S. School to KVK	27.2.2022, 1 day	1	2	45	47	8	0	8	3	2	5	13	47	60
		Exposure visited by JNV, R.C. Ghat to KVK	9.3.2022, 1 day	1	4	1	5	0	3	3	2	2	4	6	6	12
		Exposure visited by Students of Chebri H.S. School to KVK	23.7.2022, 1 day	1	17	13	30	0	3	3	3	2	5	20	18	38
		Exposure visited by students Chebri H.S. XII School to KVK	25.7.2022, 1 day	1	13	16	29	3	2	5	3	3	6	19	21	40
		Exposure visited by Students of Chebri H.S. School to KVK	27.7.2022, 1 day	1	9	5	14	10	6	16	3	2	5	22	13	35

		Exposure visited by Students of Baijalbari H.S. School	28.7.2022, 1 day	1	0	0	0	19	24	43	3	2	5	22	26	48
		Exposure visited by Students of Chebri H.S. School to KVK	25.8.2022, 1day	1	12	15	27	1	3	4	3	4	7	16	22	38
		Exposure visited by Students of Chebri H.S. School to KVK	26.8.2022, 1 day	1	11	11	22	5	4	9	2	2	4	18	17	35
		Exposure visited by students of JNV, R.C. Ghat and Khowai Govt. English Medium School to KVK	14.9.2022, 1 day	1	0	12	12	0	12	12	4	3	7	16	15	31
		Exposure visited by Students of Bharat Sardar H.S. School to KVK	24.9.2022, 1day	1	0	0	0	17	20	37	3	2	5	20	22	42
		Exposure visited by students of Tuichindrai Bani H.S. School, Teliamura	29.9.2022, 1day	1	12	12	24	2	2	4	2	2	4	16	16	32
		Exposure visited by Youth Affairs and Sports Department, Khowai district	03.10.2022, 1 day	1	22	18	40	6	10	16	3	1	4	31	29	60
		Exposure visited by Input Dealer from North and Unnakoti District	26.12.2022, 1 day	1	17	4	21	3	3	6	2	0	2	17	7	24
13.	Farmer-Scientist interaction	Discussion and interactions on various agri and allied sciences related queries	Throughout the year	7	119	71	190	89	61	150	0	0	0	208	132	340
14.	Electronic media (CD/DVD)	NICRA Bringing Smile at Khowai district at Tripura	15.09.2022	1	65	20	85	52	23	75	0	0	0	117	43	160
15.	Newspaper coverage	Scientific Advisory committee Baithok	16.01.2022	1	Throughout the year											

		Divyodaya Krishi Vigyan Kendra Virtual Sabha	17.01.2022	1	
		KVK & ICAR Organize seminar on Maize Cultivation	05.02.2022	1	
		Krishakder Moddhe Uttchhafalanshil Bhutta o Sabjir beej Bitaran	09.02.2022	1	
		Bhutta o Sabjir Shokkhomota bridhir Lokkhe Karmashala	140.2022	1	
		Seminar on Crop diseases and pest	15.02.22	1	
		Cherita Paribasha Bandhav Rof Poka Daman Niye Alochana	15.02.2022	1	
		Krishi Vigyan Kendra Uddyoga Krishak seminar	20.2.2022	1	
		Krishi Vigyan Kendrar Seminar	20.2.2022	1	
		Divyodaya Karmasuchi	30.3.2022	1	
		Kishi Vigyan Niye Chasider Sanghye Matbinimoy	27.04.2022	1	
		Khowaiye krishi Mela	27.04.2022	1	
		Kisan Bhagidari Prathami Kita Humari: Khowai KVK Holds farmers seminar	27.04.2022	1	
		Divyodaya Organizes Agricultural Fair at Chebri	28.04.2022	1	
		Divyodaya Kishan Mela	30.04.2022	1	
		Divyodaya Krishi Vigyan	16.05.2022	1	

		kender Hochana Sibir														
		Divodayate Alochana Sibir	17.05.2022	1												
		Khowai Krishi Vigyan Kendrer Karmashala	19.05.2022	1												
		Khowai a krishakder niye seminar	20.05.2022	1												
		Divyodaya Krishak Seminar	24.05.2022	1												
		Nabakumar Hrangkhawl Paray Khetra Diwas Anusthito	23.08.2022	1												
		Jhum Chaser Opor Alochana Sabha	26.08.2022	1												
		Khowai a Krishi Mela	16.09.2022	1												
		Pranabananda Vidyamandira Mega sasta sibir	7.11.2022	1												
		Krishi Sachanata Shibir	4.12.2022	1												
		Divyodaya Prakritik Chashabashan Upan Prashikhan Sibir	4.12.2022	1												
		Khowai a Krishakbandhu kendrer Gudam Udbodhan	15.12.2022	1												
16.	Leaflet/Folders	Baigyanik Podhotite Dragon foler Chas and Prakritik Chas	15.09.2022,	2	225	163	388	219	123	342	0	0	0	444	286	730
17.	Lecture delivered as resource person	Agri and allied	Throughout the year	19	173	116	289	507	296	1092	0	0	0	680	412	1092
18.	Input Distribution, Farmers Club	Seminar as a part of Celebration of Women Day	8.03.2022	1	25	21	46	15	10	25	18	6	24	58	37	95

	Convenors Meet, SHG Convenors Meet															
		Training on Input distribution under Jal Shakti Abhiyan	19.04.2022	1	11	3	14	6	3	9	0	0	0	17	6	23
		One day training programme on export promotions of agriculture and horticulture commodities in North eastern states	13.05.2022	1	26	0	26	14	0	14	0	0	0	40	0	40
		Farmers Seminar on Integrated Pest Management for sustainable Agriculture	19.05.2022	1	9	3	12	25	14	39	0	00	0	34	17	51
		Farmers club convenors meet	5.08.2022	1	9	5	14	15	3	18	0	0	0	24	8	32
		PM Kisan Samman Sammelan	17.10.2022	1	48	57	105	92	63	155	39	13	52	140	120	260

3.5 Production and supply of Technological products during 2022

A. SEED MATERIALS

Major group/class	Crop wise	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries				
					General		SC/ST		Grand Total
					M	F	M	F	
Cereals	Paddy	Gomati, Tripura Chikon	50	77300	1	1	30	2	34

Oil Seeds	Mustard	Tripura Toria	5	50000	32	12	56	9	109
	Sesamum	Tripura Siphing	3	60000	14	7	112	2	135
Pulses	Greengram	Tripura Moong 1	2	20000	28	9	87	22	146
Vegetables	Potato Tuberlet	HPSII/67	3.07	21100	29	-	7	-	36
Green Manure	Dhaincha	Local	1.64	16400	46	76	58	150	330

A1. SUMMARY of Production and supply of Seed Materials during 2022

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**
1	Cereals	50	49	77300	1	1	30	2	34
2	Oil Seeds	8	8	110000	46	19	168	11	244
3	Pulses	2	2	20000	28	9	87	22	146
4	Vegetables	3.45	3.07	21100	29		7		36
5	Green Manure	1.7	1.64	17000	46	76	50	150	330
TOTAL		65.15	63.71	245400	150	105	342	185	790

B. Production and supply of Planting Materials (Nos. in No.) during 2022

Major group/class	**Crop**	**Variety**	**Quantity (In**	**Quantity (In No.)**	**Value (Rs.) of quantity**	**Number of recipient/ beneficiaries**

			No.) produced	**supplied**	**produced**	**General**		**SC/ST**		**Grand Total**
						M	**F**	**M**	**F**	
Fruits	Mango graft	Amarapalli	110	109	6050	13	37	3	24	77
	Papaya seedlings	RCTP8	400	300	6000	28	2	8	24	62
	Litchi saplings	Bombay	100	74	4500	18	3	23	2	46
	Sweet orange saplings	Nagpuri Santra, Valencia	20	18	800	11	1	2		14
	Lemon cuttings	Gandharaj	1500	785	22500	82	38	109	70	299
Spices	Black pepper cuttings	Pioneer	50	38	1000	4	1	19	3	27
Vegetables	Tomato seedlings	Gaw	14000	12900	21000	132	93	197	89	511
	Cauliflower seedlings	PBSK	14100	13058	28200	134	75	130	171	510
	Chilli seedlings	Hot papper	7700	6590	11580	50	70	60	70	250
	Capsicum seedlings	California Wonder	2500	2480	12500	40	45	110	155	450
	Cabbage seedlings	BC 76	17600	16600	26400	140	74	102	107	423
	Red cabbage seedlings	Ruby Ball, Scarlet	1000	440	1000	4	43	1	77	125
	Knol khol seedlings	Shigra	9500	7820	9500	100	67	66	105	338

	Broccoli seedlings	Chevaliar	6300	5180	18900	145	70	78	98	391
	Brinjal seedlings	Purple King	6500	4289	9750	61	36	44	28	169
	Drumstick	ODC3	180	162	3600	15	1	39	37	92
	Iceberg seedlings	-	500	490	750	1		1		2
	Chinese cabbage seedlings	Super no 1	2800	2730	4200	32	46	61	87	226
Plantation crops	Areca nut seedlings	Local	200	20	2400	7		3	1	11
	Coconut seedlings	West Coast, Kanchipuri	20	16	1200	7	-	4		11
Flowers	Marigold seedlings	Sunset mix, Double orange	3420	2176	6840	65	34	1.8	22	139
Total			**88000**	**76299**	**198640**	**1089**	**836**	**1078**	**1170**	**4173**

C. Production of Bio-Products during 2022

Major group/class	**Product Name**	**Species**	**produced Quantity**		**Value (Rs.)**	**Number of Recipient /beneficiaries**				
			No	**(Kg)**		**General**		**SC/ST**		**Grand Total**
						M	**F**	**M**	**F**	
Bio-Products	Mushroom spawn	Oyster	5940	1485	148500	75	67	121	45	308

D. Production of livestock during 2022

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.	Piglet	LWYS, LR	111	2500.2	1055890	33	0	53	0	86
2.	Culled boar	Do	2	Contract	106500	0	1	1	0	2
3.	Culled Sow	Do	1	Contract	58000	0	0	1	0	1
4.	Culled Gilt	Do	1	Contract	43000	0	0	1	0	1
5.	Milk	Crossed	-	853.4 lit	42670	55	4	55	4	118
6.	Live bird	Broiler	3589	7190.635	956574	156	5	177	5	343
7.	Chicks	Kuroiler	1460		171105	49	6	67	6	128
8.	Live bird	Kuroiler	1271	2158.49	591793	160	7	169	7	343
9.	Egg	Kuroiler	202		1191	0	8	0	8	16
10.	Egg	Duck	108		1080	4	9	4	9	26
11.	Chicks	Kadaknath	216		30845	0	10	0	10	20
12.	Ducklings	Deshi	13		3850	2	0	2	0	4
13.	Drake	Deshi	7		2600	3	0	2	0	5
14.	Piglet	LWYS, LR	111	2500.2	1055890	33	0	53	0	86

3.6. Literature Developed/Published (with full title, author & reference) during 2022

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

(B) Articles/ Literature developed/published

Sl. No	Type of publication	Author name	Topic	Year	No of copy	Citation/ Journal/ publisher name, publication/ volume & page number
1	Research article	Sachan, M.S.; Dey, D.; Michui, P.; Sachan, S.K.	Allelopathic effects of *Schima Khasiana & Michelia Champaca* on germination & growth of some legume & cereal crops of NEH region	2022		Intn. J. of Plant & Soil Sci. 34(24): 179- 186; 2022
2	Research article	Sachan, M.S.; Michui, P.; Mezhatsu, R.	Allelopathic effects of some fruit plant species with weeds	2022		Intn. J. of Environment & Climate Change. 12(12): 856- 859; 2022
1	Research Article	Dey, D.; Kundu, M.C. & Sen, D.	Productivity of groundnut as influenced by integrated use of lime, organics, in organic fertilizers & biofertilizers in acidic soils of Tripura	2022		International Journal of Plant & Soil Science. 34(2): 1-5
2	Folder	A.Chakraborty, M. Sehgal, S. Chander, M. Malik, M.S. Sachan, S. Shil, D. Dey, R. Das, N. Islam, S.C. Biswas	Integrated Pest Management of Chilli in Tripura	2022		S.S. & Head, KVK Khowai (Divyodaya); DKV/NCIPM/ 2022/215-A
3	Folder	A.Chakraborty, M. Sehgal, S. Chander, M. Malik, M.S. Sachan, S. Shil, D. Dey, R. Das, N. Islam, S.C. Biswas	Integrated Pest Management of Cowpea in Tripura	2022		S.S. & Head, KVK Khowai (Divyodaya); DKV/NCIPM/ 2022/215-B
4	Folder	A.Chakraborty, M. Sehgal, S. Chander, M. Malik, M.S. Sachan, S. Shil, D. Dey, R. Das, N. Islam, S.C. Biswas	Integrated Pest Management of Okra in Tripura	2022		S.S. & Head, KVK Khowai (Divyodaya); DKV/NCIPM/ 2022/213
5	Folder	A.Chakraborty, M. Sehgal, S. Chander, M. Malik, M.S. Sachan, S. Shil, D. Dey, R. Das, N. Islam, S.C. Biswas	Integrated Pest Management of Tomato in Tripura	2022		S.S. & Head, KVK Khowai (Divyodaya); DKV/NCIPM/ 2022/214
6	Book	Pranab Dutta, Ardhendu Chakraborty	Current Trends in Pest and Disease Management	2022		ISBN 978-81-947739-5-5 BIOTICA Publications
7	Book	Ardhendu Chakraborty and	Ecofriendly Novel Tactics for	2022		ISBN 978-81-947739-5-5

	chapter	J. Alice R. P. Sujeetha	Managing Stored Grain Pests			BIOTICA Publications
8	Leaf let (Bengali)	R. Das, S. Shil, N. Islam, D. Dey, A. Chakraborty & P. Reang	Natural Farming	2022	200	S.S. & Head, KVK Khowai (Divyodaya); DKV/ leaflet/ 224/ 2022
9	Folder (Bengali)	S. Shil, N. Islam, D. Dey, A. Chakraborty & R. Das	Scientific Cultivation of Dragon Fruit	2022	200	S.S. & Head, KVK Khowai (Divyodaya); DKV/ leaflet/ 223/ 2022
10	Book chapter	S. Shill, P. Adhikari & M.S. Sachan	Overview of Mulching in Agriculture	2022		Mulching for increasing productivity and profitability. Published by Scripown Publications- Delhi. Editor- D. Borah, pp- 89-104. (ISBN 978-93-94375-02-4)
11	Book chapter	M.S. Sachan, B.P. Bhatt & B. S. Butola	Scenario of Fodder Production & Consumption Pattern at different Altitudes in Garhwal Himalaya	2022		Current Research on Forage Crops of India. Published by Akinik Publications- Delhi. Editor- D. Borah, pp- 91-111. (ISBN 978-93-5570-392-7).
12	Abstract	M.S. Sachan, D. Dey, P. Michui, S.K. Sachan & R. Mezhatsu	Variability Studies in Foxtail Millet	2022		2nd Biotic Science Congress, 2022 and International Conference on Recent Advances in Agricultural, Biological and Applied Sciences Research Organized by Society for Biotic & Environmental Research (SBER), Tripura in Collaboration with Nowgong College, Assam and ICAR- CAFRI, Jhansi (UP) (8th to 9th August, 2022)
13	Abstract	S. Shill, M.S. Sachan & R. Das	Varietal evaluation of marigold (*Tagetes* spp.) under sub-tropical climatic condition of Tripura	2022		National Conference on Tribal Horticulture (Hybrid Mode) Souvenir & Book of Abstracts, Organized by Dr. YSR Horticultural University, Venkataramannagudem, West Godavari (AP) THS1032 pp- 54 (17th to 18th October, 2022)
14	Abstract	D. Dey, M.S. Sachan & S.C. Biswas	Assessment of root dipping in SSP- mc slurry method of P management in paddy in Khowai district Tripura	2022		3rd National Conference on natural, organic and chemical farming in Indian Agriculture- Present Scenario and Way Forward, organized by Society of Krishi Vigyan and KVK Ujjain under Rajmata Vijayraje Schindia Krishi Vishwa Vidyalaya, Gwalior (MP) on 17th to 19th October, 2022
15	Abstract	M.S. Sachan, D. Dey, P.	Allelopathic effects of some fruit	2022		3rd National Conference on natural, organic and

		Michui & R. Mezhatsu	plant species with weeds			chemical farming in Indian Agriculture- Present Scenario and Way Forward, organized by Society of Krishi Vigyan and KVK Ujjain under Rajmata Vijayraje Schindia Krishi Vishwa Vidyalaya, Gwalior (MP) on 17th to 19th October, 2022
16	Abstract	Dey, D.; Sachan, M.S. and Biswas, S.C.	Use of root dipping in SSP- mc slurry method is enhancing paddy productivity in Khowai district of Tripura North East India	2022		VII International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agricultural and Allied Sciences (GRISAS)- Birsa Agricultural University, Ranchi, Jharkhand; November, 21- 23, 2022.
17	Abstract	Shil, S. and Sachan, M.S.	Effect of INM on growth, yield, quality of sprouting broccoli (*Brassica oleracea* var. italica) cv. Besty under Tripura condition	2022		VII International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agricultural and Allied Sciences (GRISAS)- Birsa Agricultural University, Ranchi, Jharkhand; November, 21- 23, 2022.
18	Abstract	Sachan, M.S.; Michui, P. Sachan, S.K. and Mezhatsu, R.	Allelopathic effects of fruit plants on germination and growth of Barnyard grass and green amaranth of North East Region	2022		VII International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agricultural and Allied Sciences (GRISAS)- Birsa Agricultural University, Ranchi, Jharkhand; November, 21- 23, 2022.
19	Book	Sachan, M.S. and Dey, D.	Adaption of resilient technologies to mitigate climate change in farming practices under Khowai district of Tripura	2022	20	ISBN 978-93-94375-19-2 Scripown Publications
20	Article	Shil, S, Adhikary, P and Mondal, J.	Health benefit of Lutein	2022		Frontiers in Crop Improvement, 10(6): 2930-2934.
21	Training Mannual	Sachan, MS and Dey, D.	Certificate course on Integrated Nutrient Management for fertilizers dealers	2023	45	KVK- Khowai/2023/01
22	Training Mannual	Shil, S; Sachan & Das, R.	Floriculture	2023	20	DKVK/Pub.-TM/ 227/2023
23	Training Mannual	Islam, N. Sachan, MS, Reang, P. and Rudra Paul, P.	Pig Rearing and Management	2023	30	DKVK/Pub.-TM/ 228/2023
24	Training	Dey, D, Sachan, MS, Reang,	Vermicomposting	2023	30	DKVK/Pub.-TM/ 229/2023

	Mannual	P. and Rudra Paul, P.				

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

I Details of Electronic Media Produced: Nil

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1.	VCD	NICRA bringing smile at Khowai district of Tripura.	15

C. Awards/ Appreciation/ Recognition received by Krishi Vigyan Kendea (Divyodaya), Khowai: Tripura in 2022.

Sl. No.	Type of Award	Name of Award/ recognition	Date & venue (Hybrid Mode)	Organization/ Department	Name of Institute/ Farmers/ Staffs
1	Institutional	Felicitation "North East Converses" Outstanding contribution to development of Tripura by its sustained guidance to farmers	30.05.2022; Conference Hall, Income Tax Deptt. Agartala	Income tax Department, Aayakar Bhawan, (Ministry of Finance, Govt of India) Mantribari Road Netaji Chowmuhani, Agartala, Tripura- 799 001	Krishi Vigyan Kendra (Divyodaya)
2	Farmers	Felicitation "North East Converses"			Mr. Bijoylal Majumdar, P. Farmers, R.C. Ghat, Khowai
3	Institutional	Certificate of Appreciation for successfully pinning a flag to mark AKAM	15th August, 2022; NIC	Ministry of Culture, Govt of India	Krishi Vigyan Kendra (Divyodaya)
4	Institutional	Pratigya Praman Patra (Pledge Certificate) corruption free India for a developed nation	31st October, 2022; NIC	Central Vigilance Commission, Govt of India	Krishi Vigyan Kendra (Divyodaya)

5	Institutional	Certificate of Appreciation for successfully conducted RAWE-READY programme of B.Sc. (Ag) Final year students (39 nos.) for 2 months	03.01.2022 (2th Oct. 2021 to 26th Dec., 2021).	College of Agriculture, Lembuchera	Krishi Vigyan Kendra (Divyodaya)
6	Individual	Adarsh Vidya Saraswati Rashtriya Puraskar (National Award of Excellence 2022)	20.06.2022 GMC, Ahmedabad (Gujrat)	Glacier Journal Research Foundation-Global Management Council, Ahmedabad (Gujrat)	Dr. M.S. Sachan, Sr. Scientist & Head
7	Individual	Best Oral Presentation Award	09.08.2022 Nowgong College, Assam	Society for Biotic & Environmental Research (SBER), Tripura during 2nd Biotic Science Congress, 2022 and Int. Conf. on Recent Advances in Agril, Biological and Applied Sciences Research	Dr. M.S. Sachan, SS & H
8	Individual	Best Oral Presentation Award			Mr. A. Chakraborty, SMS- PP
9	Individual	Young Scientist Award- 2022			Mr. Rajib Das, SMS-Agril. Extension
10	Individual	Best Extension Scientist Award	19th October, 2022; Hotel Imperial Grand, Ujjain (MP)	Society of Krishi Vigyan and KVK Ujjain under Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalier M.P. during the 3rd National Conference on natural, organic and chemical farming in Indian Agriculture- Present Scenario & Way Forward on 17th to 19th October, 2022	Dr. M.S. Sachan, Sr. Scientist & Head
11	Individual	Young Scientist Award- 2022			Mr. Dipankar Dey, SMS- Soil Science
12	Individual	Poster Presentation Award- A Success Story	2nd to 4th March, 2022; CoF, Lembuchera	National Workshop on Identification of Insects- Pests, Invasion of crops & their Bio- Control in NE Region, organized by CAU & NBAIR & CoF, Lembuchera	Mr. A. Chakraborty, SMS- PP

13	Individual	Distinguished Scientist Award	23rd November, 2022; BAU, Ranchi (Jharkhand) Online	ASTHA Foundation and Society for Scientific Development in Agriculture & Technology at Birsa Agricultural University, Kanke, Ranchi: Jharkhand during the VIIth International Conference in Hybrid Mode on " Global Research Initiatives for Sustainable Agriculture and Allied Sciences" (GRISAS-2022) on 21st to 23rd November, 2022	Dr. M.S. Sachan, SS & Head
14	Individual	Best Oral Paper Presentation Award			Dr. M.S. Sachan, SS & Head
15	Individual	Young Scientist Award			Mr. SC Biswas, SMS- Home Sci.
16	Individual	Excellence in Extension Award			Mr. Dipankar Dey, SMS- Soil Science
17	Individual	Best Thesis Award			Dr. Subhra Shil, SMS- Horticulture
18	Individual	Fellow Award			Dr. M.S. Sachan, SS & Head

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

Success Story of Mr. Samanta Debbarma

Address:

Mr. Samanta Debbarma, Vill-Tuiching gram Bari ADC Village, Sub: Khowai,Block: Kalyanpur , Dist: Khowai, Tripura- 799207 Mobile number:8837409341
e-MAIL ID: samantadebbarma81@gmail.com

Introduction:

Samanta Debbarma is associated with a farmers club namely "**Hamkrai Farmers club"** of Khowai District of Tripura. Shri Samanta Debbarma contributed a lot to his village and the society through his motivation, sacrifice and hard work. Besides practicing Agriculture and allied activities in his farm he is also very innovative in tries hard to develop his neighbouring farmers with adoption of new new technologies. Tuichingram ADC Village is remote

village of Khowai district of Tripura with 100 % tribal inhabitant farmers. Most of the people of the village are dependent on jhum lands to earn their livelihood,As the Jhum Cultivation is not sustainable so the farmers of the village mostly suffers from Livelihood vulnerability.To reduce the vulnerability and also to make Jhum Cultivation Profitable,Mr. Samanta Debbarma have visited KVK ,Khowai. Considering his problems Scientists of the KVK,Khowai has suggested him to adopt Natural Farming in his own land on pilot basis. He got two days training on Natural Farming from KVK,Khowai. After the training programme he has started following natural farming in his Jhum Land where he has grown mixed crop like Paddy var. Aduma Kitting,Pigeon Pea var. Local,Maize Var. local,Brinjal var. local. He has adopted various components of natural farming like Application of Jeevamrutha & Beejamrita,Ghana Jeevamrita + Use of Paddy Straw as Mulch material + Use of Mixed Cropping +Use of Waaphasa.Earlier he was doing Jhum Cultivation without any input application.Before adoption of natural farming his total annual income from Jhum land was 5,0000.00 with a gross cost of cultivation of Rs.31,250.00 and a net annual return of Rs.18,750.00.The productivity of the crops which he was growing was: : Paddy- 33 q/ha, Pigeon Pea- 5.5 q/ha, Maize- 20.5 q/ha.

After following the principals of Natural farming in his Jhum land this year he could earn total income of Rs. 65,625.00/ha with a total cost of cultivation of Rs. 34375.00,as a result he could get a net annual income of Rs.31250.00.The productivity of the crops was: Paddy- 37 q/ha, Pigeon Pea- 7.6 q/ha, Maize- 21.6 q/ha.

Now, he is motivating other farmer of the villages to adopt natural farming in their land to make Jhum system sustainable and profitable. Besides economic point of view, the application of different inputs under Natural farming also have a positive influence on post harvest soil fertility parameters.

Table : General physico-chemical properties ofexperimental soil under Pre-adoption and Post Adoption of Natural Farming (After One year of adoption)

Soil Properties	**Pre adoption Values/description**	**Post adoption Values/description**
Soil Texture	Sandy loam	Sandy Loam
Soil P^H	5.6	5.4
Available P by Bray"s method(Kg/ha)	12.84	12.96
Available N_2(Kg/ha)	207.65	209.8

Available K_2O(Kg/ha)	181.58	183.5
Organic Carbon(%)	0.59	0.59

Conclusion:

With his innovative ideas and hard work Mr. Samanta Debbarma is now changing the attitude of many tribal jhumias which is leading them to adopt natural farming in their lands in a big way. After seeing his success many line department officials and Scientists from ICAR has visited his land and appreciated his efforts .

IPM MODULES AGAINST TOMATO FRUIT BORER – A SUCCESS STORY

Name of the farmer: Rahul Das, S/O Gokul Das Vill- RC Ghat, P.O. Chebri, Distt. Khowai-799207 Tripura	
Mobile Number: 8974543298	
Age: 30 **Educational Qualification:** 12th Pass **Farming Experience:** 10 years **Other crops grown:** Cowpea, Potato, Chilli, Paddy, Sweet potato, Pea, Brinjal **Crop:** Tomato **Area:** 0.32 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 (138 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)	Net return (Rs)	B:C Ratio
IPM	9.85	138	111345	1: 3.58
Non IPM	42.65	40.5	22456	1: 1.22

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 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	22456	111345
Pest damage level	42.65	9.85

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	Paddy	Rusham & Romo (Kokborok language) or Denki or Man operated Rice miller	It is mainly used for making flour specially from paddy grain and sometime other grains are also placed for making flour.
2	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.

3	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: 19

ii. No. of farm families selected:2300

iii. No. of survey/PRA conducted:2

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Need Up-gradation

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	
Total		Pusa Mini Soil Lab	W.S Telematics Pvt Ltd	1	86000.00

			3	**251300.00**

3.13. Farmers registered under Kisan Sarathi portal: 9142 nos.

3. **Details of samples analyzed (2022)** :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount(In Rupees) realized
Soil Samples	502	502	12	Nil
Water Samples	02	02	1	Nil
Plant Samples				
Petiole Samples				
Total	**504**	**504**	**13**	

1. Details of Soil Health Cards (SHCs) (2022)
   a. No. of SHCs prepared: 502
   b. No. of farmers to whom SHCs were distributed: 502
   c. Name of the Major and Minor nutrients analysed: N, P, K, S, Zn, B, Cu
   d. No. of villages covered:13

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	223	1167	134	789	134	1087	58	292	164	1387	184	574	897	5296
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice and Text both	175	987	126	621	67	404	42	292	182	398	41	192	633	2894
Total	**398**	**2154**	**260**	**1410**	**201**	**1491**	**100**	**584**	**346**	**1785**	**225**	**766**	**1530**	**8190**

3.14 Contingency planning for 2022

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Introduction of Drought Tolerant Paddy Variety. Tripura Hakuchuk-2,Tripura-Nirog	5	0	70	70	140
Introduction of Mulching in Bitter Gourd with Paddy Straw	5	0	50	50	100

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
Cyclone	1000	5	5	750	300	200	500

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)
Handmade Egg Hatching Incubator	49	80%	11500/10 birds/year	24500/10 birds/year
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

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

4.2. Cases of large scale adoption

Sl. No	Crop/ Enterprise	Technology	Result Obtained
1.	Agriculture & Soil Science	Cultivation of Toria var. Tripura Toria	**Higher yield obtained with Cultivation of Toria var. Tripura Toria ,BC ratio was 2.78 ,in case of FP it was 2.20**
2.		SSP-mc slurry method of Phosphorus management in Paddy	❖ Higher yield of Paddy with enhanced B:C ratio of 2.42 compared to FP where BC Ratio was 2.31
3.		Soil Test Based Nutrient Management	Tested 502 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

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Impact of CFLD on Hybrid Paddy	250	74	46875/ ha	53310/ha

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2022

Name of organization	Nature of linkage
ICAR Research Complex for NEH Region, Tripura centre	Joint implementation
College of Agriculture, Tripura	READY, Joint implementation
Dept. of Agriculture, Horticulture, ARD Dept. and Dept. of Fisheries, Tripura	Joint implementation
College of Fisheries, CAU, Tripura	FAWEP

NGOs	Joint implementation
ICAR- IARI	Critical Input
ICAR- IIHR	Critical Input
ICAR-NEHR, Tripura Centre	Critical Input
KVIC	Training support
NABARD	Project support
NIPHM	Joint implementation
NCIPM	Joint implementation
T- SAMETI	Joint implementation
District Administration	Joint implementation
Other KVKs	Joint implementation
HRC, Nagicherra	Seed materials
ASCI	Skill Training
TRLM	Joint implementation
ATMA	Joint implementation
Spice Board, Tripura	Joint implementation
IMD, Tripura	Weather data

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 2022

Name of the scheme/ special programme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Kisan Mela- under Kisan Bhagidari Prathmikata Hamari	Exhibition, Awareness program, Method demonstration	26th April, 2022	Department of Agriculture, Govt., of Tripura	35,000/-
Training on "Export promotions of agriculture and horticulture commodities in NE states"	Training	13th May, 2022	NIPHM, MoA&FW, Govt., of India, Hyderabad	20,500/-

Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	16th , 17th and 19th March,2022	DIC, PMFME, Agartala Govt Of Tripura	54480/-
Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	26th , 28th , and 29th March, 2022	DIC, PMFME, Agartala Govt Of Tripura	57204/-
Cereal based processing and value addition, packaging	Beneficiary Classroom training programme on ODOP-Rice based products for individual beneficiary	31st Mar,1-2 April, 2022	DIC, PMFME, Agartala Govt Of Tripura	78,996/-
Fruits and Vegetablebased processing and value addition, packaging	Beneficiary classroom training on Non-ODOP-Multiple fruit processing for individual NGO/Beneficiary	4th -6th July,2022	DIC, PMFME, Agartala Govt Of Tripura	73,548/-
Fruits and Vegetablebased processing and value addition, packaging	Seed Capital (SHG) Training programme on Food Processing for Entrepreneurship development	5th November, 2022	DIC, PMFME, Agartala Govt Of Tripura	22,840/-

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district No

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

5.4 Give details of programmes implemented under National Horticultural Mission: Nil

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 2022

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 Culled boar Culled Sow Culled Gilt	111 2 1 1	1051988.00	12,63,390.00	Piggery- 2 nos.	
2	Poultry-11 nos.	1982, 1993, 2003	584 sq.m	Kuroiler, Broiler	Chicks, Live bird, eggs	6738	1493580.00	17,51,508.00	Poultry-11 nos.	
3.	Dairy-1 no	2003	50sq. m	Crossed	Milk	853.4 lit	20983.00	42670.00	Dairy-1 no	

4	Duckery	2003	50sq.m	Crossed	Live duck, ducklings, egg	128	6420.00	7530.00	Duckery	

6.2 Performance of instructional farm (Crops) including seed production during 2022

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									
Paddy	31.01.22	26.5.22	0.74	Gomati	Seed/Table	2200 Kg	46000	26800	
Paddy	5.8.22 & 13.08.22	13.11.22	0.72	Tripura Chikon &Swarna Masuri	Seed/Table	3000 kg	48000	50500	
Maize	16.11.22 & 21.12.22	1.03.23	0.076	DMRM Duha 3502	Table	78 Kg	6500	2750	Standing crop
Any other									
Dhaincha	14.04.2022	31.10.22	0.32	Local	Seed	130 Kg	11000	14400	
Spices									
Chilli	30.12.22		0.48	Hot pappedr, NS 203	Seed	-	8500	-	Standing Crop
Ginger	28.06.22	25.12.22	0.032	Nadia	Seed	12.5 kh	4000	1000	Standing Crop
Turmeric	01.06.22		0.008	Rajendra Sonia	Seed/Table		1000		Standing crop
Areca nut	10.06.2008	8.11.22	0.032	Local	Seed/Table	5000 nos	1000	3200	
Coconut	20.06.1979	Throughout the year	0.48	Kanchanpuri, West Coast	Seed/Table	1700 nos	7200	21500	
Fruits									
Litchi	1979, 1986	10.05.22	0.08	Bombay	Table	12200 nos	2500	4200	

Sweet orange									
Mango	1986, 2014	9.05.22	0.32	Amarapalli, Hemsgar	Table	820 kg	5000	20500	
Banana	15.10.2016	Throughout the year	0.024	G-9	Table	700 nos	1000	1050	
Wood apple	20.4.1986	7.4.22	0.008	Local	Table	840 nos		420	
Pamelo	25.04.1986	5.9.2022	0.008	Local	Table	150 nos		200	400
Apple ber	16.5.21		0.032	Bharat Sundari	Table		2000		Standing crop
Vegetables									
Tps tuberlet	4.12.22		0.068	HPS II/67	Seed		30000		Standing crop
Ware potato	7.11.22	21.02.22	0.08	HPS II/67, Jyoti	Table	350 kg	4500	4050	Inslow 80kg
Papaya	3.05.2018	Throughout the year	0.04	RCTP8	Table	2560Kg	5000	20500	
Yard longbean	11.06.22	15.08.22	0.008	VNR CP 27	Table	50 kg	1300	1500	
Brinjal	8.7.22 & 7.11.2022	10.10.22	0.016	Profit Raj, Narki Ram	Table	120 kg	2500	3000	Standing crop
Broccoli	1.12.2022		0.032	Cheraliar, NS 50	Table	120 kg	2500	3000	Standing crop
Cauliflower	28.10.22	10.12.2022	0.008	Snowball	Table		1000	500	Standing crop
Cabbage	1.12.2022		0.012	BC 76, Disha	Table		1200	400	Standing crop
Red cabbage	01.12.22		0.012	Scarlet	Table		1200		Satanding crop
Tomato	16.10.22	10.10.2022	0.024	Garv	Table	24 kg	1000	720	
Okra	12.02.2022	27.4.2022	0.014	Nandini	Table	24 kg	1000	720	
Pumpkin vine									
Ridge gourd	26.01.22	29.04.22	0.016	Chitra	Table	42 kg	2000	1261	Slow
Colocasia	01.06.2013	11.3.2023	0.08	Local	Table	308 kg	3500	10811	
Drumstick									

Amaranthus									
EFY									
Others									
Sweet potato	23.12.2021	1.12.2022	0.016	Bhu Krishna, Bhu Sona	Cuttings	4500 nos	2500	4500	

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2022

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Mushroom spawn	7083 pkt	76400.00	212490.00	_
2	Value added products jam Jelly , squash, Pickle, Mango leather	101.25 kg	9500.00	25250.00	_

6.4 Performance of instructional farm (livestock and fisheries production) during 2022

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	Piggery	White Yorkshire and Landrace	Piglet Culled boar Culled Sow Culled Gilt	111 2 1 1	1051988.00	12,63,390.00	Piggery	
2	Poultry	Kuroiler, Broiler	Chicks, Live bird, eggs	6738	1493580.00	17,51,508.00	Poultry	
3	Dairy	Crossed	Milk	853.4 lit	20983.00	42670.00	Dairy	

4	Duckery	Crossed	Live duck, ducklings, egg	128	6420.00	7530.00	Duckery	
5	Fishery		IMC,		2789.315	315324	458290	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structureduring 2021

Date	**Title of the training course**	**Client (PF/RY/EF)**	**No. of Courses**	**No. of Participants including SC/ST**		
				Male	**Female**	**Total**
5.01.2022 and 22.10.2022	Recent advances in Soil and water conservation for better management of Natural Resources	EF	2	49	33	82

6.6. Utilization of hostel facilities (Month-Wise) during 2022

Accommodation available (No. of beds):

Months	**Title of the training course/Purpose of stay**	**Duration of Training**	**No. of trainees stayed**	**Trainee days (days stayed)**	**Reason for short fall (if any)**
1st January 2022- 31st December 2022	READY (In –Plant Training) final year B.F.Sc students of CoF, CAU (I)	13	39	507	
Total					

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
Current Account	State Bank of India	Khowai	36526709161
Saving Account	State Bank of India	Khowai	38096287514
Revolving Fund- Saving Account	State Bank of India	Khowai	38096267348

7.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2022

Item	Released by ICAR/ATARI (in lakh)		Expenditure (in lakh)		Unspent balance as on 31st December 2022
	Sanctioned	Released	Amount	Amount	
CFLD On oil seed	460000	239863	239863	239863	Nil
CFLD on Pulses	540000	149060	149060	149060	Nil
TOTAL	1000000	388923	388923	388923	Nil

7.3 Utilization of KVK funds during the year 2022-23

Sl. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	212.12791	212.12791	212.12791
2	Travelling allowances	3	3	3
3	**Contingencies**			

A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	19	19	7.3001
B	POL, repair of vehicles, tractor and equipments			3.13
	Working Capital			
C	Meals/refreshment for trainees			2.956
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			2.326
E	Frontline demonstration except oilseeds and pulses			0.932
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			0.7695
G	Training of extension functionaries			1.1232
H	Maintenance of buildings			0.4632
I	Establishment of Soil, Plant & Water Testing Laboratory			-
J	Repair	1	1	1
K	Kishan Mela	1	1	1
L	Swacchata Action Plan	0.462	0.462	0.462
M	Poshan Maah	0.04	0.04	0.04
N	Natural Farming	2.62944	2.62944	2.62944
O	Drone	17.5	17.5	17.5
P	CFLD Pulses	1.4906	1.4906	1.4906
Q	CFLD Oilseed	2.39863	2.39863	2.39863
R	RKVY Skill Training	3.36325	3.36325	3.36325
S	PM Kishan Sanman (For KVK North Tripura Farmers Expenditure)	0.0837	0.0837	0.837
T	HRD	0.8	0.8	0.8
TOTAL (A)		**264.89553**	**264.89553**	**265.64883**
B. Non-Recurring Contingencies				

1	Furniture	4.25	4.25	4.25
2	Office Equipment	5	5	5
3	Lab Equipment	1.3	1.3	1.3
4	Information Technology	1.55	1.55	1.55
5	Farm Equipment	1.92	1.92	1.92
6	Library (Purchase of assets like books & journals)	0.15	0.15	0.15
TOTAL (B)		**14.17**	**14.17**	**14.17**
C. REVOLVING FUND		-		
GRAND TOTAL (A+B+C)		**279.06553**	**279.06553**	**279.81883**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance with KVK (in lakh)
2019-20	4.48	44.39	45.25	3.62
2020-21	3.62	50.17	49.41	4.38
2021-22	4.38	48.01	44.71	7.68
2022-23	7.69	43.83	42.62	8.89

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above. In Kishan Sarati portal KVK Khowai has been registered more than 10,000 farmers. 109 nos. of DFI success story documented and submitted to council through ICAR -ATARI.

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

- **Financial**
- Monthly release of fund under Pay & Allowances is a problem in timely disburse the salary. Requesting to release fund in quarterly/ half-yearly basis as per BE.
- Need to increase fund for Training and Meal for farmers.
- Need other allowances like LTC, CEA, Medical etc.
- Late / Non- release of the fund under different flagship / important/CFLD (Oilseed & Pulses) programmes.
- In NGO KVK no retirement benefit so worried about job security.
- **Technical**
- Unwanted pressure from the local Politician to fetch more benefits from KVK schemes to their own jurisdiction.
- More manpower required.
- Need Hi-tech / modern laboratory facilities is to fulfill the farmers need.
- Need Mobile van for diagnostic / technology dissemination at the farmers door step.
- **Administrative**
- Staff of NGO KVK is not treated at par ICAR/University employees in respect of all welfare policies of ICAR employees.
- Need new Administrative building, residential quarter, farmer's hostel, fencing/ boundary wall.
- No promotion/up gradation channel for NGO KVK employees.

(Dr. Manoj Singh Sachan)
Sr. Scientist cum Head