

PROFORMA FOR ANNUAL REPORT OF KVKs, 2019-20

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, Diphu, Karbi Anglong, P.O.- Diphu, 782 460	--	--	maibangsas@gmail.com kvk_diphu@aau.ac.in

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

Address	Telephone		E mail
	Office	FAX	
Assam Agricultural University, Jorhat, 785 013, Assam	0376-2340001 2340029	0376 2340001	vc@aau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Subal Maibangsa	Nil	9859824022	maibangsas@gmail.com kvk_diphu@aau.ac.in

1.4. Year of sanction: 1999 (Remandated), 01.07.2004 (Independent)

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

Sl. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1.	Head	Dr. Subal Maibangsa	Head	Crop Physiology	1,44,200-2,18,200	1,82,700	13.06.07	Permanent	ST
2.	Subject Matter Specialist	Mr. Sanjiv Bhuyan	SMS	Extension Education	68,900-2,05,500	75,300	11-08-11	-do-	Others
3.	Subject Matter Specialist	Mr. Nilim Kalita	SMS	Soil Sc.	68,900-2,05,500	75,300	17-08-11	-do-	Others
4.	Subject Matter Specialist	Dr. Monuj K. Doley,	SMS	Animal Sc.	15,600-39,100	63,100	04-02-14	-do-	ST
5.	Subject Matter Specialist	Dr. Lohit Kataki	SMS	Plant Protection	15,600-39,100	57,800	08-08-2018	-do-	OBC
6.	Subject Matter Specialist	Mr. Shourov Dutta	SMS	Horticulture	15,600-39,100	57,800	08-08-2018	-do-	OBC
7.	Subject Matter Specialist	Ms. Prakshipta Boruah	SMS	Agronomy	15,600-39,100	57,800	08-08-2018	-do-	OBC

8.	Programme Assistant	Ms. Minika Rongpharpi	Prog. Astd.	Agronomy	9,300-34,800	52,000	04.03.09	-do-	ST
9.	Computer Programmer	Mr. Bikram Borthakur	Prog. Astd. (Computer)	Computer Sc.	9,300-34,800	53,600	13-08-15	-do-	Others
10.	Farm Manager	Mr. Thanuram. T. Millik	Farm Manager	Horticulture	22,000-87,000	52,280	07.01.09	-do-	ST
11.	Accountant / Superintendent	Mr. Heimangshu Medhi	Superintendent cum Accountant	MBA	9,300-34,800	39,900	01.11.2014	-do-	OBC
12.	Stenographer	Mr. Bimal J. Dutta,	Jr. Steno cum Comp. Operator	B.A.	5,200-20,200	32,300	01.12.13	-do-	Others
13.	Driver	Mr. Bhadeswar Gogoi	Driver cum Mechanic	Undermatric	5,200-20,200	26,800	21.02.12	-do-	OBC
14.	Driver	Mr. Bitupon Saikia	Driver cum Mechanic	B.A.	5,200-20,200	22,400	14.05.2018	-do-	OBC
15.	Supporting staff	Mr. Rensing Tisso	Supporting staff	Undermatric	5,200-20,200	18,500		-do-	ST
16.	Supporting staff	Mr. Manab J. Dutta	Supporting staff	Undermatric	5,200-20,200	18,500		-do-	
17.	Senior research fellow(SRF)	Ms. Larbeen Teronpi	Senior research fellow	M.Sc (Agri)	25,000 + 10% HRA		06.02.2018	Temporary	ST
18.	Senior research fellow(SRF)	Ms. T.Linda Suantak	Senior research fellow(SRF)	M.Sc (Agri)	28,500 + 10% HRA		12.11.18	Temporary	ST
19.	Project Staff	Ms. Puja Ingtipi	Project staff	M.Sc	10,000 (Fixed)		28.02.18	Temporary	ST

- 1.6. a. Total land with KVK (in ha) : 5.88
b. Total cultivable land with KVK (in ha) : 3.67 (Shared with RARS, Hill Zone, Diphu)
c. Total cultivated land (in ha) : 3.2

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.71
2.	Under Demonstration Units	0.26
3.	Under Crops (Cereals, pulses, oilseeds etc.)	3.67
4.	Under vegetables	0.05
5.	Orchard/Agro-forestry	0.08
6.	Others (specify)	0.16

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	State	1973*	208.50				
2.	Farmers Hostel	NARP	1987*	375.00				
3.	Staff Quarters (6)	State	1973*					
4.	Demonstration Units (2)	State	1973*					
5	Fencing	NARP	1987*					

* Very old buildings and in dilapidated conditions.

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep - 1 no (Mahindra Marshal)	AS-03-E-0025	18.05.2006	468970.00	150270 km	On road (needs frequent Maintenance)
Mahindra Marazzo	AS-01-EB-3283	31.05.2019	-	135200 kms	On road

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
LCD Projector -- 1 no.	2006	55016.00	Not Working
LCD Projector -- 1 no.	2010	98,331.00	Not Working
LCD Projector-1 no.& Projection Screen-1 no.	2013	99805.00	Working
LCD Projector -- 1 no.	2016	78200.00	Working
LCD Projector -- 1 no.	2017		Working
Digital Camera – 1 no.	2010	19,000.00	Not working
Digital Camera-1 no.	2017		Working
Photo copier – 1 no.	2010	1,01920.00	Working
FAX machine – 1 no.	2010	15190.00	Not Working
Refrigerator - 1 no.	2009	14062.50	Not Working
Generator Set – 1 no.	2004	47213.00	Working
Computer unit – 2 no.	2009-10	88861.00	Working 1, Not working 1
Computer-1 no.	2014		Working
Computer Unit-2 no	2016	135390.00	Working
Laptop- 1 no.	2016	55754.00	Working
5KVA online UPS	2017	94116.00	Working
Digital Ticker Board	2010	90800.00	Suspended
VSAT Communication	2009	78014.00	Suspended

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1.8. A). **Details SAC meeting conducted in the year 2019-20:** Not conducted

* *Attach a copy of SAC proceedings along with list of participants*

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agriculture - Horticulture
2.	Agriculture - Animal Husbandry
3.	Agriculture – Sericulture
4	Animal Husbandry – Horticulture
5	Animal Husbandry - Sericulture
6	Agriculture - Animal Husbandry – Horticulture
7	Agriculture - Animal Husbandry - Fishery
8	Agriculture - Animal Husbandry - Sericulture
9	Agriculture - Horticulture - Animal Husbandry - Sericulture
10	Agriculture - Fishery - Animal Husbandry – Horticulture
11	Agri-Silvi culture

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

Sl. No	Agro-climatic Zone	Characteristics
1.	Hills Zone	Comprises the district of Karbi Anglong and N C Hills with an area of 15327 sq km. KVK district Karbi Anglong has an area of 10,433 sq.km The district Karbi Anglong is characterized by undulating topography marked with hills and hillocks of various sizes. The slopes of the hilly terrains are gentle. Rainfall and temperature of the district are uneven, and varies depending on location of hills and valleys. Annual rainfall of the district is 1147 mm. The maximum temperature goes up to 33.8° C during June - August and the minimum falls down to 8.6° C during December-January. The predominant soils found are lateritic in hill slopes and red loams in the valleys. The district has considerable plain areas in the North adjoining the districts of Golaghat and Nowgong

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Clay loam	Soils of the district based on texture are sandy loam, clay loam and sandy. Out of the total, 58.3% soils are sandy clay loam, 22.54% clay loam and 19.16 % sandy soil. Soil pH varies from 5.0-6.5 based on locality. Organic carbon is low to high distributed in various parts of the district. The P content is low to medium and K content is medium to high.	235153
2	Sandy		199918

3	Sandy clay loam	608325
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2.4. Area, Production and Productivity of major crops cultivated in the district

Sl. No.	Crop	Area (ha)	Production (MT)	Productivity (kg/ha)
Cereals				
1.	Paddy	129577	213171	1670
2.	Maize	10529	27450	2607
3.	Wheat	1156	1360	1167
Pulses				
4.	Blackgram	1252	823	658
5.	Greengram	1131	885	782
6.	Arhar	1119	919	822
7.	Lentil	247	149	606
Oilseeds				
8.	Rapeseed & Mustard	19713	11316	574
9.	Sesamum	3075	2561	833
10.	Groundnut	128	131	1026
Cash crop				
11.	Sugarcane	7706	238035	30890
12.	Jute	1405	16868	2161
13.	Cotton	576	288	85
Spices and condiments				
14.	Ginger	1599	17213	10765
15.	Turmeric	1217	1242	1020
16.	Chilli	399	437	870
17.	Garlic	308	521	1692
18.	Black pepper	279	422	1512
19.	Onion	274	698	2545
20.	Coriander	212	151	716
Fruit Crops				
21.	Pineapple	2026	36687	18108
22.	Banana	1882	34884	18536
23.	Orange	1171	25297	21603
24.	Papaya	584	10221	17500
25.	Lemon	568	2766	4869
26.	Mosambi	168	264	1573
27.	Pears	153	1096	7164
28.	Litchi	138	113	816
29.	Guava	131	350	2672
30.	Mango	108	74	682
31.	Jackfruit	103	625	6065
Tuber Crops				
32.	Potato	867	7518	8671
33.	Tapioca	368	4248	11545
34.	Sweet Potato	303	1694	5590
Plantation Crops				
35.	Areca nut	1539	647 (dry)	143 nuts/tree
36.	Coconut	512	2974000	52 nuts/tree
Vegetables				
37.	Rabi vegetables	4489	81745	18210
38.	Kharif vegetables	2016	28728	14250

Source: Directorate of Economics and Statistics, GoA (2019-20)

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Afternoon
January'19	0.0	25.3	0.0	87.6	73.7
February '19	21.0	26.4	0.0	75.3	63.0
March '19	101.2	30.9	0.0	63.5	49.3
April '19	111.5	29.7	0.0	93.0	52.0
May '19	139.3	31.0	0.0	92.0	61.0
June'19	278.0	33.0	0.0	93.0	70.0
July'19	202.0	34.0	0.0	72.0	5.1
August '19	292.6	34.4	0.0	93.0	72.0
September '19	157.2	33.0	0.0	93.0	74.0
October '19	295.5	29.9	0.0	92.0	65.0
November'19	6.1	28.9	0.0	94.0	62.0
December'19	0.9	24.1	0.0	90.0	60.0
January'20	9.0	21.4	7.7	97.0	67.0
February' 20	33.6	25.5	9.3	94.0	50.0
March' 20	12.5	30.1	13.4	90.0	46.0

Data source: RARS, Diphu 2019-20.

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	4655	3986728 l milk	5.5 l / animal / day
<i>Indigenous</i>	172540	15671021 l milk	1.75 l / animal / day
Buffalo	16767	1948710 l milk	4.21 l / animal / day
Sheep			
<i>Crossbred</i>	NA		
<i>Indigenous</i>	NA		
Goats	32171	1936.84 q meat	0.12 q / animal
Pigs			
<i>Crossbred</i>	2654	292.66 q meat	45.4 kg / animal
<i>Indigenous</i>	105916	33489.86 q meat	
Rabbits	NA		
Poultry			
Hens			
<i>Desi</i>	210238	6552621 eggs 1849.31 q meat	70 eggs / bird 1.5 kg meat / bird
<i>Improved</i>	9876	1767891 eggs 181.38 q meat	179 eggs / bird 1.83 kg meat / bird
Ducks	24577	2526235 eggs 484.08 q meat	eggs / bird 1.96 kg meat / bird
Turkey and others	NA		
Fish			
<i>Inland</i>		9456.65 q	25.71 q/ha

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2019-20)

Sl. No	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1.		Lumbajong	Nilapur, Thapadau, Upper Hapjan, Langsoliat, Rongkanthir, Mazgaon, Nailalung, Dhansree, Disagisim,, Mohongdijua, Cherat Bey gaon, Kamsing Timung gaon, Sarpoteron gaon, Pitor Singnar gaon, Dhonsing Tokbi gaon, Sarmon Rongpher gaon, Ampukhuri, Sarthe Phangso gaon, Plimplangso, Arthengso Rongchington, Borsing Timung, Sirkangnep, Shanti basti, Ulthuram basti, Baghmari, Lekthe gaon, Upparmoni Gaon, Longithabataon, Naskrungdisa. Karnaidisa, Ram Teron Gaon, Shivnagar, Disagisim, Hemari Bey Gaon, Mithiphang, Rangnihang, Dok Terang, Bura Terang, Sikari Bey, Sarmen Phangcho, Kangthar Kramla, Longki Tisso, Sonali Gaon, Bhetagaon, Daujingphang, Mesepdainya, Rangapahar crossing, Nowgaon basti, Jari Teron, Jamuna Engti, Rongklarbong, Rongplimplum, Chotalangpher, Langmili	Sugarcane, Paddy, Maize, Toria, Sesame, Blackgram, Pineapple, Banana, Ginger, Arecanut, Vegetables, Piggery, Goatery, Dairy, Fishery, Sericulture,	1. Cultivation of low yielding variety leading to low yield. 2. Soil erosion and loss of soil fertility. 3. Rearing of low efficiency breeds/variety of livestock. 4. Insufficient AI facility 5. High incidence of FMD and Swine fever. 6. Seasonal water scarcity for commercial crop cultivation. 7. Non availability of quality inputs 8. Insufficient animal healthcare facilities 9. Unorganized farming	1. Introduction of HYV Sugarcane, rice, horticultural crops, 2. Prevention of soil erosion and improving soil fertility through INM recommendations including pulses and other green manure crop in the crop sequence. 3. Rain water harvesting 4. Introduction of high yielding livestock and poultry, 5. Promotion of fodder cultivation, 6. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology. 7. Promotion of FPOs/FPCs/FIGs/SHGs 8. Participatory seed production

2		Bokajan	Kekang Adong, Dilowjan No2, Japarajan, Balipathar No 2, Dubajan, Nambor sing teron, Balipathar, Sariahjan, Tingalijan, Kachari gaon, Naparpatty Kachari pathar, Marakardoiguri, Ronggora, Nambor adarsha, Chokihola, Lindok Rongpi, Barmati, Jonaram Killing gaon, Balipathar, Borjan, Dilowjan, Dihingia gaon, Kathkatia, Santipur, Japrajan, Upper Deopani, Saphapani, Longboi, Den Timung Village, Deithor, Dimsolangso, Rongkimi, Kadam gaon, Dalamora, Japaralangso, Paklangso, Bheta Gaon, Anjokteron Gaon, Tinglija Garo village, Sodarterang, Shyam gaon, Patar gaon, Borsapori, Rongcherim, Sarthe Rongpi, Sadar Timung, Phangbong Timung, Junaram Killing, Koi Terang, Hemai Hanse, Sokhar Lakthe, Khotkhoti Kachari Gaon, Bokajan	Paddy, Toria, Maize, Wheat, Pea, Potato, Jute, Sesame, Turmeric, Pineapple, Assam lemon, Ginger, Vegetables, Piggery, Goatery, Dairy, Fishery, Sericulture	<ol style="list-style-type: none"> 1. Cultivation of low yielding variety leading to low yield. 2. Soil erosion and loss of soil fertility. 3. Rearing of low efficiency breeds/variety of livestock. 4. Insufficient AI facility 5. High disease outbreak in livestock and poultry 6. Seasonal water scarcity for commercial crop cultivation. 7. Non availability of quality inputs 8. Insufficient animal healthcare facilities 9. Unorganized farming 10. Insufficient farm mechanization 	<ol style="list-style-type: none"> 1. Introduction of HYV Sugarcane, rice, horticultural crops, 2. Prevention of soil erosion and improving soil fertility through INM recommendations including pulses and other green manure crop in the crop sequence. 3. Introduction of high yielding livestock and poultry, 4. Promotion of fodder cultivation, 5. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology. 6. Promotion of FPOs/FPCs/FIGs/SHGs 7. Participatory seed production 8. Establishment of CHCs
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3		Langsomepi	Sonpura, Disobai, Rajapathar, Uttar phong lokpe, Sonpura Dimasa Gaon, Rajapathar Tiniali, Nambakalia, Nepaligaon, Choiang gaon, Patra Disha, Phonglokpet, Gopal nagar, Sikari Pathar, Hemai Timung Gaon, Disobai, Joysing Tokbi	Paddy, Maize, Toria, Sesame, Sugarcane, Assam lemon, Arecanut, Coconut, Banana, Potato, Pea, Vegetables Piggery, Poultry, Dairy, Fishery, Sericulture	<ol style="list-style-type: none"> 1. Cultivation of low yielding variety leading to low yield. 2. Loss of soil fertility. 3. Rearing of low efficiency breeds/variety of livestock. 4. Insufficient AI facility 5. Non availability of quality inputs 6. Unorganized farming 	<ol style="list-style-type: none"> 1. Introduction of HYV Sugarcane, rice, horticultural crops, 2. Improving soil fertility through INM recommendations including pulses and other green manure crop in the crop sequence. 3. Introduction of high yielding livestock and poultry, 4. Promotion of fodder cultivation, 5. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology. 6. Promotion of FPOs/FPCs/FIGs/SHGs 7. Participatory seed production
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4		Samelangso	Mizo teron gaon, Lonki Hanse, Hanboka, Parokhowa, Jeng Ronghang, Okreng, Barhoigaon, Ardan Engti, Lakso gaon, Halipora gaon, Mesh Par, Sar Engtigaon, Lokhan Bey Gaon, Dhan sing Tokbi Gaon, Bi Engti Gaon, Vive Rongphar Gaon, Kaf Teron Gaon, BS Hanse Gaon, Sarmen Rongphar Gaon, Laxan Bey Gaon, Borsing Hanse, Mari Taro Gaon, Merok Phangso Gaon, Monglu Dighati Majgaon Jaipong Mon Teron Gaon, Jaipong Khorsing Rongpi gaon, Longbi Hanse, Hemari Singnar, Kuna Bey, Disol Teron, Pani gaon, Manikpur, Ganesh Pathar, Santipur	Paddy, Toria, Sesame, Jute, Potato, wheat, Pea, Vegetables, Assam lemon, Ginger, Areca nut, Piggery, Goatery, Dairy, Sericulture, Poultry, Fishery	1. Cultivation of low yielding variety leading to low yield 2. Rearing of low efficiency breeds of livestock 3. Lack of AI facility and grazing land leading to animal feed crisis 4. High incidence of animal and poultry diseases 5. Non availability of quality inputs 6. Unorganized farming	1. Introduction of HYV of horticultural and field crops 2. Inclusion of pulses and other green manure crop in the crop sequence 3. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology 4. Promotion of FPOs/FPCs/FIGs/SHGs 5. Participatory seed production

5.		Howraghat	Parokhowa, Podumpukhri, Rongkut udharjan, Hambong Enghi, Chankar gaon, Pub Dikharu, Doloi gaon, Silpukhuri, Lutumari, No. 1 Uttamji, Okreng	Paddy, Sesame, Jute, Potato, wheat, Pea, <i>Rabi</i> Vegetables, Assam lemon, Areca nut, Piggery, Goatery, Sericulture, Duckery, Fishery	<ol style="list-style-type: none"> 1. Cultivation of low yielding variety leading to low yield 2. Rearing of low efficiency breeds of livestock 3. Lack of AI facility and grazing land leading to animal feed crisis 4. High incidence of animal and poultry diseases 5. Non availability of quality inputs 6. Unorganized farming 7. Insufficient farm mechanization 	<ol style="list-style-type: none"> 1. Introduction of HYV of field and horticultural crops, 2. Inclusion of pulses and other green manure crop in the crop sequence 3. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology 4. Promotion of FPOs/FPCs/FIGs/SHGs 5. Participatory seed production
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6.	Rongkhang	Kawoimari, Itajan, Chawragaon, Kolonga, Jerkending	Paddy, Toria, Maize, Jute, Wheat, Potato, Pea, Banana, Assam lemon, Pineapple, Vegetables, Piggery, Dairy	1.Cultivation of low yielding variety leading to low yield 2.Rearing of low efficiency breeds of livestock 3. Lack of AI facility 4. High incidence of animal and poultry diseases 5. Non availability of quality inputs 6. Unorganized farming 7. Insufficient farm mechanization	1. Introduction of HYV of field and horticultural crops 2. Inclusion of pulses and other green manure crop in the crop sequence 3. Creating awareness on modern technology related to crop and animal farming including other enterprises and natural resource management technology
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3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2019-20

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	3	9	9	24	4	4	85	116
Horticulture	2	1	6	3	4	4	14	14
Soil Sc.	2	2	6	6	3	3	11	13
Pl. Protection	3	4	9	10	2	1	8	9
APART	4	4	20	20	10	10	297	297
Total	14	20	50	63	23	22	415	449

Note: Target set during last Action Plan Workshop

Training (including sponsored, vocational and other trainings)					Extension Activities				
3					4				
Number of Courses			Number of Participants		Number of activities			Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	

								ment
Farmers	44	45	1139	1183	256	399	3210	4372
Rural youth	23	13	573	303	-	-	-	-
Extn. Functionaries	3	1	75	25	-	-	-	-
Seed Production (ton.)					Planting material (Nos. in lakh)			
5					6			
Target			Achievement		Target		Achievement	
31 q			19		500 cuttings		300 cuttings	

Note: Target set during last Action Plan Workshop

3. B. Abstract of interventions undertaken during 2019-20

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal performance	Rice	Non availability of Bora and Chakua varieties of Rice for Hill region	OFT on Bora and Chakua varieties of Rice (in organic block)	Sali rice variety: Tripura Chikan Dhan	-	-	Field Day	Seed, fertilizer, pesticides
2	Varietal performance	Rice	--	OFT on Sali rice varieties in organic block	-	-	-	-	Seed, fertilizer, pesticides
3	Varietal performance	Rice	--	OFT on promising Sali rice line CN1758-2-TTB-7	-	-	-	-	Seed, fertilizer, pesticides
4	Varietal performance (Under APART)	Maize	Lack of high yielding varieties	Assessment of Improved hybrid variety of Maize	Improved variety of Maize Var: BIO-9637	-	-	-	Fertilizers, seeds
5	Varietal performance (Under APART)	Mustard	Unavailability of short duration Mustard varieties	Performance of short duration Mustard varieties	Improved variety of Mustard var: NRCHB-101	-	-	Field day	Seeds, fertilizers, Borax

6	Varietal performance (Under APART)	Cabbage	Yield loss due to loose head	Impact of boron application on quality head production	-	-	-	-	Seeds, fertilizers
7	Varietal performance (Under APART)	Cauliflower	Yield loss due to browning and hollow stem	Impact of boron application on quality curd production	-	-	-	-	Seeds, fertilizers
8	Varietal demonstration (Under APART)	Blackgram	-	-	Improved variety of Blackgram var: IPU 02-43	-	-	-	Seed, fertilizer, pesticides
9	Varietal demonstration	Mustard	Non availability of high yielding mustard variety for Hill region	-	Indian Mustard variety: NRCHB 101	-	-	Field Day	Seed, fertilizer, pesticides
10	Varietal demonstration	Pumpkin	Non availability/lack of commercial variety	-	Pumpkin variety: Arjuna F1	-	-	Field Day	Seed, fertilizer, pesticides
11	Varietal demonstration	Tomato	Non availability/lack of commercial variety	-	Tomato variety: Arka Rakshak F1	-	-		Seed, fertilizer, pesticides
12	Varietal demonstration	Colocasia	Lack of high yielding variety	-	Colocasia variety: Panchamukhia	-	-	-	Seed, fertilizer
13	Intercropping system	Areca nut + Pineapple + Black pepper	Non use of fallow interspaces in areca nut cultivation		Areca nut based multistoray cropping system		Multistorey cropping system		Seed, fertilizer,
14	Crop sequence	Maize-Potato+ Rajmah+ Rabi crops	Non utilization of fallow land	OFT on maize based cropping system	-	-	-	-	Seed, fertilizer, pesticides
15	Crop production	Sesame	Farmers do not follow the date of sowing according to the package	Performance of Sesame under different dates of Sowing	-	-	-		Seed, fertilizer, pesticides

16	Weed management	Rice	Heavy weed infestation due to frequent dry spell in kharif rice	Weed management in Kharif rice	-	-	-	-	Seed, fertilizer, pesticides
17	Varietal performance	Blackgram	Non availability of high yielding variety	OFT on Blackgram var: SBC-50	Blackgram var: HYVPU31	-	-	-	Seed, fertilizer, pesticides
18	Pulse production	Field Pea	Non availability of high yielding variety	-	Field Pea var. HYV Aman	-	-	-	Seed, fertilizer, pesticides
19	Varietal performance	Foxtail millets	Non availability of high yielding variety	OFT on Foxtail millets	-	-	-	-	Seed, fertilizer, pesticides
20	Crop sequence	Rice-Pea-Babycorn	Land remains fallow after harvesting of Kharif rice	Rice-Pea-Babycorn in irrigated condition under organic farming	-	-	-	-	Seed, fertilizer,
21	Organic cultivation	Turmeric	Degrading soil health and yield due to excessive use of inorganic fertilizers	Organic cultivation of Turmeric	-	-	-	-	Seed, fertilizer,
22	Nutrient management	Toria	Low productivity of Toria	Combined effect of S and B on Toria	Boron nutrition in Toria	-	Soil fertility management in Toria for higher productivity	-	Seed, fertilizer, pesticides
23	Nutrient management	Rice	Improper fertilizer management in Rice	-	Application of soil test based fertilizer	-	Fertilizer management in Rice	Field Day	Seed, fertilizer, pesticides
24	Nutrient management	Maize	Low productivity of Maize due to Zinc deficiency	Zinc nutrition in Maize	Application of RDF as per PoP	-	-	-	Seed, fertilizer, pesticides

25	IDM	Pea	High incidence of Rust disease and subsequent yield loss	Management of Rust disease in Pea	-	-	-	-	Seed, fertilizer, pesticides
26	IDM	Sesamum	Fusarium wilt in Sesamum lead to yield loss	Biological management of Fusarium wilt of Sesamum	-	-	-	-	Seed, fertilizer, pesticides
27	IDM	Ginger	Severe incidence of rhizome rot leading to yield loss	Organic management of Rhizome rot disease of Ginger	-	-	-	-	Seed, fertilizer, pesticides
28	IPM	Blackgram	Unscientific storage of pulse seeds leads to high insect pests damage and poor germination	Evaluation of Hermetic Storage System Black gram	-	-	-	-	Hermetic bags
29	Mushroom production	Mushroom	Low production of oyster mushroom beds	-	Demonstration	-	Improved production technology of Oyster Mushroom	-	Spawn, polythene bags
30	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	ICMD (under APART)	-	-	-	Seed, Fertilizer, weedicide, pesticide
31	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	Wet DSR (under APART)	-	-	Field day	Seed

32	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	Dry DSR (under APART)	-	-	-	Seed, Fertilizer, weedicide, pesticide
33	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	Minikit (under APART)	-	-	-	Seed, Fertilizer, weedicide, pesticide
34	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	Cluster demonstration (IPM super imposed) (under APART)	-	-	-	Seed, Fertilizer, weedicide, pesticide
35	Sali rice	Rice	Non availability of submergence tolerance rice varieties	-	Dealers demonstration (under APART)	-	-	-	Seed, Fertilizer, weedicide, pesticide
36	Varietal demonstration (under ARYA)	Pineapple	-	-	Demonstration on Pineapple var: Kew	Scientific cultivation of Pineapple	-	-	Suckers
37	Meat production (under ARYA)	Piggery	-	-	Demonstration on piggery unit	Scientific pig farming	-	-	Piglets, feed, vaccines
38	Meat and egg production (under ARYA)	Poultry	-	-	Demonstration on backyard poultry unit	Scientific poultry farming	-	-	Piglets, feed, vaccines

39	Value chain management (under DBT Biotech Kisan Hub)	Turmeric	-	-	Technology demonstration on value chain management in Turmeric	Modern technology of hortl crops in Turmeric and Banana	-	-	Turmeric, Biofertilizers etc.
	Varietal demonstration (under RKVY-RAFTAAR)	Mustard	-	-	Large scale demonstration on Indian Mustard var: NRCHB 101	-	-	Field day	Seeds, fertilizers
	Organic farming (under PKVY)	Pineapple	-	-	Organic cluster demonstration in Pineapple	Organic cultivation in fruit crops	-	Focus group discussion	Financial support for purchase of suckers and organic inputs
	Composite fish culture (under NICRA)	Fish culture	-	-	Composite fish culture in existing farm ponds	-	-	-	Fingerling, manures, feeds
	Vermicomposting (under NICRA)	Vermicompost production	-	-	Homestead production of Vermicompost	-	-	-	Earthworms, vermicombed
	Meat and egg production (under NICRA)	Backyard poultry	-	-	Introduction of Kamrupa breed for backyard poultry farming	-	-	-	Chicks, health support, feeds, housing

	IFS (under NICRA)	Duck cum fish	-	-	Scaling up of Duck cum fish IFS model	-	-	-	Duckling, fingerling, feeds, healthcare
	Water harvesting (under NICRA)	Jalkund	-	-	Micro water harvesting structure Jalkund based vegetable cultivation	-	-	-	Tarpaulin

3.1 Achievements on technologies assessed and refined during 2019-20

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	5	1	1	-	2	-	-	-	-	9
Weed Management	1	-	-	-	-	-	-	-	-	1
Integrated Crop Management	2	1	-	1	-	-	-	-	-	4
Integrated Nutrient Management	1	1	-	-	-	-	-	-	-	2
Integrated Pest Management	-	-	1	-	-	-	-	-	-	1
Integrated Disease Management	-	1	1	1	-	-	-	-	-	3
TOTAL	9	4	3	2	2	-	-	-	-	20

* 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	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
TOTAL								

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

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

A.5. Results of On Farm Testing

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	OFT on Bora and Chakua varieties of Rice (in organic block)	Non availability of high yielding bora and Chakua varieties for hill zones of Assam	Varieties- 1) TTB-DR-106-2-4 2) TTB-DR-103-4-4 3) Aghoni Bora	Kharif rice	5	Variety-1 Days to 50% flowering-110 Duration-145 Plant height (cm)-113.18 Panicle length (cm)-27.66 Test weight (gm)-23.06 Grain yield (t/ha)-6.17 Variety-2 Days to 50% flowering-110 Duration-145 Plant height (cm)-114.60 Panicle length (cm)-25.40 Test weight (gm)-25.40 Grain yield (t/ha)-6.73 Variety-3	Yield performance is satisfactory		Variety 1= 2.55 Variety 2= 2.77 Variety 3= 2.39

						Days to 50% flowering-110 Duration-145 Plant height (cm)-121.02 Panicle length (cm)-23.84 Test weight (gm)-22.14 Grain yield (t/ha)-5.79			
2	OFT on Sali rice varieties in organic block	-	Varieties- 1) TTB-DR-207-3-2 2) TTB-DR-207-2-1 3) TTB-DR-211-1-1	Kharif rice	5	Variety-1 Days to 50% flowering-112 Duration-146 Plant height (cm)-117.14 Panicle length (cm)-26.88 Test weight (gm)-22.17 Grain yield (t/ha)-6.43 Variety-2 Days to 50% flowering-100 Duration-133 Plant height (cm)-117.20 Panicle length (cm)-26.10 Test weight (gm)-	Yield performance was acceptable		Variety 1= 2.32 Variety 2= 2.77 Variety 3= 2.58

						24.11 Grain yield (t/ha)- 6.81 Variety-3 Days to 50% flowering-107 Duration-141 Plant height (cm)- 117.80 Panicle length (cm)- 24.50 Test weight (gm)- 18.09 Grain yield (t/ha)- 6.34			
3	OFT on promising Sali rice line CN1758-2-TTB-7	-	Rice variety- CN1758-2-TTB-7	Kharif rice	1	Tech Days to 50% flowering-116 Duration-151 Plant height (cm)-141.40 Panicle per sq. m.-258.4 Grain yield (t/ha)-5.32 Check Days to 50% flowering-128 Duration-162 Plant height (cm)-135.6	Yield performance was satisfactory		Tech: 2.33 Check: 1.89

						Panicle per sq. m.- 245.5 Grain yield (t/ha)- 4.94			
4	OFT on maize based cropping system	-	Maize- Potato+Rajma h+Rabi crops	Maize- Potato+Ra jmah+Rab i crops	1	Maize Days to 50% flowering-50 days No. of kernels per cob-612 Potato Days to 50% flowering-58 days Avg. wt. of Tubers (g)-69.3 Rajmah-did not germinate. Cabbage Avg. head wt.-1.8 Kg Equivalent yield (q/ha)-277.1	Yield of maize was considerabl y high in comparisio n to traditional varieties Rajmah crop performed poorly in the intercroppi ng system.		
5	Performan ce of Sesame under different dates of Sowing	Farmers do not follow the date of sowing according to the package	Date of sowing: 3 rd week of July, 2 nd week of August, 4 th week of June (FP)	Sesame	4	Date of sowing: 4 th week of June Duration-95 Plant height (cm)- 135.6 Capsule per plant- 40.91 Seed Yield (t/ha)- 6.13	Yield performanc e was high in July sown crop. Heavy flower drop was observed in		4 th week of June: 1.65 3 rd week of July: 1.85 2 nd week of August: 1.21

						<p>Date of sowing: 3rd week of July Duration-95 Plant height (cm)-141.75 Capsule per plant-54 Seed Yield (t/ha)-6.86</p> <p>Date of sowing: 2nd week of August Duration-97 Plant height (cm)-133.77 Capsule per plant-33.3 Seed Yield (t/ha)-4.77</p>	the August sown crop due to post monsoon shower in the flowering stage.		
6	Weed management in Kharif rice	Heavy weed infestation due to frequent dry spell in kharif rice	Pre emergence application of Pretilachlor(75g/ha) followed by post emergence application of Chlorimuron+ Metasulfuron (4g/ha)	Kharif rice	3	<p>Tech Weed population-11 nos. per sq. m Weed dry weight-30.44 g per sq.m Grain Yield (q/ha)-52.4</p> <p>FP Weed population-127 nos. per sq. m Weed dry weight-109.50 g per sq.m Grain yield (q/ha)-</p>	Weed infestation considerably decreased in treated plots		Tech-2.07 FP-1.79

						43.7			
7	OFT on Blackgram var: SBC-50	-	Blackgram var: SBC-50	Blackgram	2	Tech: Seed yield (q/ha)-7.01 Net return (Rs.)-17317 Duration (days)-91 FP Seed yield (q/ha)-6.24 Net return (Rs.)-12928 Duration (days)-90	Flowering time coincides with post monsoon shower led to flower drop		Tech-1.76 FP-1.57
8	OFT on Foxtail millets	-	Variety- Yellow type, Red type	Foxtail millets	1	On going			
9	Rice-Pea-Babycorn in irrigated condition under organic farming	Land remains fallow after harvesting of Kharif rice	Rice-Pea-Babycorn	Rice-Pea-Babycorn	2	On going			
10	Organic cultivation of Turmeric	Degrading soil health and yield due to excessive use of inorganic fertilizers	Seed treatment FYM @ 10t/ha along with Mustard cake @ 1t/ha. BM 1% against	-	3	On going			

			<p><i>Taphrina and Coletotrichum</i> leaf spot. Neem oil 0.5% spray at 15 days interval from 45 DAP against shoot borer. Seed rhizome treated with cowdung + cow urine slurry/FYM inoculated with <i>Trichoderma</i> spp. @ 10g/kg seed</p>					
11	Combined effect of S and B on Toria	Low productivity of Toria	Applicaation of S @ 20 kg/ha and B @ 1.5kg/ha along with RDF	Toria	3	<p>Tech Plant height (cm)-94.5 Siliqua per plt.-234 Seeds per siliqua-22.6 Yield (q/ha)-8.8</p> <p>FP Plant height (cm)-82.6 Siliqua per plt.-185 Seeds per siliqua-</p>	Technology was accepted by the farmer	Tech-1.49 FP-1.38

						20.0 Yield (q/ha)-7.0			
12	Zinc nutrition in Maize	Low productivity of Maize due to Zinc deficiency	Application of Zn as Zinc Sulphate @ 10kg/ha	Maize	3	Tech Plant height (cm)-176.0 Cob weight(g)-132.5 Grain per Cob-476 Yield (q/ha)-35.32 FP Plant height (cm)-172.0 Cob weight(g)-120 Grain per Cob-41 Yield (q/ha)-32.40	The management was accepted by the farmers		Tech-1.56 FP-1.44
13	Management of Rust disease in Pea	High incidence of Rust disease and subsequent yield loss	Three sprays of Tebuconazole or Propiconazole @ 0.2% 10 DI starting from appearance of rust disease	Pea	3	Tech Disease incidence-46% Disease severity-17.4% Yield (q/ha)-34.6 FP Disease incidence-53% Disease severity-41.3% Yield (q/ha)-24.9	Disease reduction was satisfactory		Tech-1.74 FP-1.45
14	Biological management of Fusarium wilt of	Fusarium wilt in Sesamum lead to yield loss	Seed treatment with Trichoderma @5% + Soil application off	Sesamum	3	Tech Disease incidence-14.7% Yield (q/ha)-4.6	Disease reduction was satisfactory		Tech-2.74 FP-1.90

	Sesamum		Trichoderma mixed with FYM @1: 100			FP Disease incidence- 39.4 % Yield (q/ha)-3.1			
15	Organic management of Rhizome rot disease of Ginger	Severe incidence of rhizome rot leading to yield loss	T₁ : Rhizome treatment with Copper oxychloride (COC) @ 3g/Lit + streptomycin (0.2g/Lit) for 45 minutes followed by shed drying and planting and two soil drenching with COC @ 3g/Lit at 60 and 90 days after planting T₂ : Rhizome treatment with Biofor-Pf followed by spraying with Biozine @100ml /clump at 60, 90 and 120 days after planting	Ginger	3	T₁ Disease incidence (%) -18.9 Duration (Days) -270 Av. Yield (q/ha) -185.4 T₂ Disease incidence (%) -22.4 Duration (Days) -260 Av. Yield (q/ha) -173.1 FP Disease incidence (%) -47.5 Duration (Days) -260 Av. Yield (q/ha) -82.8	Considerable reduction in disease incidence was observed. Yield improvement was high in treated plots.		T1-4.85 T2-4.49 T3-2.46

16	Evaluation of Hermetic Storage System Black gram	Unscientific storage of pulse seeds leads to high insect pests damage and poor germination	1. Sun drying of pulse grains to less than 14 % 2. Filling dried grains into hermetic storage bags and closing the bags in a hermetic manner 3. Subsequently placing the air tight bags into woven polypropylene or jute bags	Blackgram	3	On going
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**Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.*

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

3.2 Achievements of Frontline Demonstrations during 2019-20

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Pumpkin	Pumpkin var: Arjuna F1	8	48	3.5
2	Mustard	Indian Mustard var: NRCHB 101	13	74	27

3	Toria	Application of Borax @ 10 Kg/ha	5	30	5
4	Toria	Toria var: TS-67	20	157	72
5	Mushroom	Oyster mushroom	14	22	1100 beds

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Rice	Varietal demonstration	Sali rice variety: Tripura Chikan Dhan	Kh arif , 2019	3.00	3.0	2	1	3	-	Rainfed	294.5	10.14	176.78
2.	Rice	Fertilizer management	Application of soil test based fertilizer	Kh arif , 2019	1.0	1.0	5	-	5	-	Rainfed	292.25	10.52	118.36
3	Maize	Fertilizer management	Application of RDF as per PoP	Rabi, 2019	0.4	0.4	3	-	3	-	Rainfed	376.6	10.02	144.35

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*			GC**	GR**	NR**	BCR*	GC	GR	NR	BCR
											Demo	Local						
1.	Rice	Varietal demonstration	3.0	54.0	44	22.7	61.2	50.0	-	-	36698.00	75600.00	38902.000	2.06	35210.00	58800.00	23590.00	1.67
2.	Rice	Fertilizer management	1.0	58.0	52	11.5	67.0	55.0	-	-	38660.00	81200.00	42540.00	2.10	37548.00	72500.00	34952.00	1.93
3	Maize	Fertilizer management	0.4	38.75	33.38	16.08	41.9	36.5	-	-	41585.00	68200.00	26615.00	1.64	40235.00	58748.00	18513.00	1.46

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl. No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	2	13-11-19 25-11-19	-	56	56	
2	Farmers Training	1	22-7-19 23-7-19	-	23	23	
3	Media coverage	-	-	-	-	-	
4	Training for extension functionaries	-	-	-	-	-	
5	Any other (Pl. specify)	-	-	-	-	-	
Total		-	-	-	-	-	

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	Farmin g situatio n (Rainfe d/ Irrigate d, Soil type, altitude , etc)	Status of soil (Kg/ha)		
					Propo sed	Actu al	SC/ ST	Othe rs	Tot al			N	P	K
1.	Pumpkin	Varietal demonstration	Pumpkin variety: Arjkuna F1	Rabi, 2019	0.4	0.4	3	-	3	-	Rain fed	212.54	3.26	35.62
2.	Tomato	Varietal demonstration	Tomato variety: Arka Rakshak F1	Rabi, 2019	0.25	0.25	4	1	5	-	Rain fed	242.84	13.3	75.68
3	Arecanut+	Intercroppin	Arecanut+Pine	c	0.0	0.0	3	-	3	-	Rain	232	10.	181

	Pineapple +Black pepper	g system	apple+Black pepper in a multistorey cropping system		3	06					fed	.68	86	.8
4	Colocasia	Varietal demonstration	Colocasia variety: Panchamukhia	Rabi, 2019	0.06	0.06	3	-	3	-	Rain fed	354.6	9.20	164.65

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*			GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
									Demo	Local								
1.	Pumpkin	Varietal demonstration	0.4	122.86	88.96	38.10	128.8	118.6	-	-	69889.00	184500.00	114611	2.63	50625.000	98000.00	47375.00	1.93
2.	Tomato	Varietal demonstration	0.25	277.34	180.83	53.37	280.1	273.64	-	-	69072.00	277000.00	207928.00	4.01	48200.00	180000.00	131800.00	3.73
3	Arecanut +Pineapple+Black pepper	Intercropping system	0.06	On going														
4	Colocasia	Varietal demonstration	0.06	On going														

*H-Highest recorded yield, L- Lowest recorded yield
 ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio
 Produce Sale Price must be as per MSP or Registered Marketing Society
 Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	1	16.02.20	-	15	15	
2	Farmers Training	1	22.02.19	-	25	25	
3	Media coverage	-	-	-	-	-	
4	Training for extension functionaries	-	-	-	-	-	
5	Any other (Pl. specify)	-	-	-	-	-	
	Total	-	-	-	-	-	

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Mustard	Varietal demonstration	Indian Mustard variety: NRCHB 101	Rabi, 2019	1.0	1.0	1	1	2	-	Rainfed	282.4	4.14	45.20
2.	Toria	Fertilizer manageme	Boron nutrition	Rabi,	2.0	2.0	3	2	5	-	Rainfed	267.28	17.65	120.48

		ent	in Toria	2019													
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c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1.	Mustard	Varietal demonstration	1.0	12.75	7.2	77.08	14.25	11.25	-	-	20852.00	44625.00	23773.00	2.14	14672.00	18000.00	3328.00	1.22
2.	Toria	Fertilizer management	2.0	8.2	6.2	32.25	8.8	7.7	-	-	22600.00	32800.00	10200.00	1.45	18380.00	24800.00	6420.00	1.35

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	1	6-3-2020	-	13	13	
2	Farmers Training	1	11-01-2020 12-01-2020	-	23	23	

3	Media coverage	-	-	-	-	-	
4	Training for extension functionaries	-	-	-	-	-	
5	Any other (Pl. specify)	-	-	-	-	-	
	Total	-	-	-		-	

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Blackgram	CFLD	Blackgram var: HYVPU31 and Vermicompost @4t/ha	Khari, 2019	20	20	62		62		Rainfed	282.4	4.14	45.20
2.	Field pea	CFLD	Field Pea var. HYV Aman	Rabi, 2019	10	10	26	1	27		Rainfed	294.5	10.14	176.78

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H	L*		GC**	GR**	NR**	BCR*	GC	GR	NR	BCR

									Dem o	Loc al								
1	Blackgram	CFL D	20	6.49	4.8	35.20	8.7 8	5.2	-	-	19050. 00	32200. 00	13150. 00	1.69	15364. 00	24000. 00	8636.0 0	1.56
2	Field Pea	CFL D	10	7.16	5.0	43.2	7.4 5	6.3 2			22336. 00	35800. 00	35800. 00	1.6	15221. 00	20000. 00	4779.0 0	1.31

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
Total							

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	Thematic	Name of Techn	No. of farmers	No. of	No. of animals, poultry	Major Performance parameters /	% change in	Other parameters (if any)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)	Remarks

	y (e.g., Dairy, Poultry etc.)	area	ology		units	birds etc.	indicators		the parameter	Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
							Demo	Check												

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

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

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

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

(iii) Fisheries

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

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

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

(iv) Other enterprises

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

1	Mushroom	Mushroom production	Improved production technology of Oyster Mushroom	9	9	Avg. yield per bed-1.5 Kg	-	-	-	-	210000	730000	520000	3.5	-	-	-	-	

**** 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**	BC R**	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.

Title of the Study: Socio-economic status of the farmers practicing jhum cultivation and the farmers abandoning Jhum cultivation in Karbi Anglong and background reasons thereof other than tradition as reason.

Objective(s): 1. To analyse socio-economic status of the farmers practicing jhum cultivation and the farmers abandoning the same.
2. Identification of reasons of practicing and abandoning jhum cultivation

Location of the study: Karbi Anglong, Subdivisions- Diphu, Bokajan,

Parameters studied:

1. Socio-economic parameters
2. Reasons of practicing and abandoning jhum cultivation

Sample size: 120

Results:

Socio-economic background of the respondents

Asset	Farmers Practicing only Jhum. (Nos. of farmer)	Farmers Practicing both Jhum as well as Settled (Nos. of farmer)	Farmers Practicing only Settled Cultivation. (Nos. of farmer)
	Total 20 farmers	Total 50 farmers	Total 50 farmers
Education			

Illiterate –Class X	20	34	40
HSLC- Class XII	0	13	8
Class XII Passed and above	0	3	2
Types of family			
Joint	15	46	42
Unitary	5	4	8
Average family member	7.5	6.8	6.5
Average land holding	22.46 bigha	23.48 bigha	23.82 bigha

Asset	Farmers Practicing only Jhum. (Nos. of farmer)	Farmers Practicing both Jhum as well as Settled (Nos. of farmer)	Farmers Practicing only Settled Cultivation. (Nos. of farmer)
	Total 20 farmers	Total 50 farmers	Total 50 farmers
Pucca House	0	3(6%)	4(8%)
Store house	0	39(78%)	45(90%)
Animal Shed	0	21(42%)	34(68%)
Television	0	18(36%)	20(40%)
Mobile Phone	9(45%)	41(82%)	39(78%)
Car	0	0	2(4%)
Bike	0	6(12%)	7(14%)
Auto Rickshaw	0	3(6%)	4(8%)
Electricity	11 (55%)	46(92%)	48(96%)
Tractor	0	1(2%)	1(2%)
Power Tiller	0	3(6%)	3(6%)
Pump Set	0	2(4%)	3(6%)
Average Income	Rs.40076.93	Rs.148670	Rs.159000

Reasons of Practicing Jhum Cultivation

Group 1: Farmers Practicing only Jhum, total 20 farmers

Sl No	Reasons	Yes(nos.)	No(nos.)	Yes(%)
1	Upland/Forest Upland available	20	0	100%
2	No low land	20	0	100%
3	Diversified product	20	0	100%
4	Effective in controlling disease and pest	15	5	75%
5	Remunerative	13	7	65%
6	Nutrition	12	8	60%
7	Difficulty in wage earning	8	12	40%
8	Easy and simple	9	11	45%
9	settled is expensive	11	9	55%

Group 2: Farmers Practicing both Jhum as well as Settled Cultivation, total 50 farmers

Sl. No	Reasons	Yes(nos.)	No(nos.)	Yes(%)
1	Own Upland/Forest Upland available near by	50	0	100%
2	Available low land for Sali rice	50	0	100%
3	Jhum as risk mitigator	43	7	86%
4	Diversified product	32	18	64%
5	Effective in controlling disease and pest	28	22	56%
6	Remunerative	18	32	36%
7	Nutrition	8	42	16%
8	Arok making	13	37	26%
9	Pleasurable	4	46	8%
10	Jhum for Specific crop	21	29	42%
11	Converting Jhum to Settled	29	21	58%

Reasons of Abandoning Jhum Cultivation

Group-3: Farmers Practicing only Settled Cultivation, total 50 farmers

Sl. No.	Reasons	Yes(nos.)	No(nos.)	Yes(%)
1	Sufficient available low land for Sali rice	50	0	100%
2	No upland	8	42	16%
3	All upland converted to settled cultivation	40	10	80%
4	Sali rice can support family	50	0	100%
5	Low productivity/low return of Jhum	50	0	100%
6	Non remunerative compared to cash crop	24	26	48%
7	More hardship every year	50	0	100%
8	Lack of Time due to Job/Autorickshow driving/other source of non agricultural income	10	40	20%
9	Distance of Jhum field from home is high	2	48	4%
10	Small family	8	42	16%

Changes in Jhum

Group 1: Farmers Practicing only Jhum, total 20 farmers

Sl. No.	Particullars	Increased	Decreased	Same	Can't say
1	Area under Jhum	0	18	0	2
2	Cultivation period	0	3	17	0
3	Fallow period	0	17	3	0
4	Horticultural crops as compared to field crops	4	0	16	0
5	Cash crop as compared to other	0	0	18	2
6	Use of Chemical fertilizers, pesticides etc	0	0	20(no use)	0

Group 2: Farmers Practicing both Jhum as well as Settled Cultivation, total 50 farmers

Sl.No	Particullars	Increased	Decreased	Same	Can't say
1	Area under Jhum		49		1
2	Cultivation period		45	2	3
3	Fallow period		46	3	1
4	Horticultural crops as compared to field crops	4	44	2	0
5	Cash crop as compared to other			48	2
6	Use of Chemical fertilizers, pesticides etc	0	0	50	0

Title of the Study: Training need assessment of Village Level Agricultural Extension Workers of Karbi Anglong District

Objective(s): Identification of the training needs of village level extension functionaries of Depptt. Of Agriculture on, KAAC in Karbi Anglong.

Location of the study: Karbi Anglong, Sub-divisions- Diphu, Bokajan, Hamren

Parameters studied: 1. Training need in respect of knowledge
2. Preference ranking of subject matters.

Sample size: 36

A well-structured questionnaire was used to elicit data from the respondents. Topics related to seven broad areas of agricultural and allied sciences *viz.*, crop husbandry, horticultural crop production and soil fertility management, crop disease and pest management, agricultural economics, agricultural extension and miscellaneous were selected. Responses of the respondents were rated on three point continuum *viz.*, mostly needed, somewhat needed and least needed by assigning a score of 3,2 and 1, respectively. Training Need Index (TNI) was computed with the help of following formula.

$$TNI = \frac{\text{Total score obtained}}{\text{Maximum obtainable score}} \times 100$$

Results

1.Training need on Crop Husbandry

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Situation specific field crop varieties suitable for Karbi Anglong	26	10	0	90.74
2	Sustainable sugarcane production technology	24	10	2	87.04
3	Production, processing and marketing techniques of medicinal and aromatic plants	12	14	10	68.52
4	Production and processing techniques for major cereals	6	22	8	64.82
5	Pulse production, storage and processing techniques	0	12	24	44.45
6	Oilseed production, storage and processing techniques	0	32	4	62.97
7	Profitable cropping systems for Karbi Anglong	34	2	0	98.15
8	Organic farming	36	0	0	100
9	Integrated farming system	21	12	3	83.34
10	Hybrid Maize production	0	12	24	44.45
11	Profitable Cropping sequence in Karbi Anglong	30	6	0	94.45
12	Cultivation techniques of Broom grass	36	0	0	100
13	Weed management in major field crops grown in Karbi Anglong	7	28	1	72.23
14	SRI method of rice cultivation	31	5	0	95.37
15	Cultivation practices of field crops suitable for relay cropping after rice	0	9	27	66.67
16	Hill slope cultivation of field crop	6	30	0	72.23
17	Upland rice cultivation and newly released upland HYV.	23	12	1	87.04
18	Probability of large scale pest and disease outbreak and precautions and management thereof.	36	0	0	100
19	Seed production techniques of some pulse and oilseed crop grown in Karbi Anglong.	8	15	13	62.04
20	Seed production techniques of rice crop grown in Karbi Anglong	10	11	15	62.04

1. Training need on Horticultural Crop Production

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Orange and citrus production technology	0	14	22	46.30
2	Banana production and processing techniques	8	22	6	68.52
3	Pineapple production and post- harvest techniques	29	7	0	93.52
4	High density planting of major fruit crops suitable for Karbi Anglong	0	10	26	42.60
5	Areca nut production, post- harvest and marketing techniques	9	18	9	66.67
6	Arecanut and coconut based multi-storied cropping system	26	10	0	90.74
7	Protected cultivation for high value horticultural crops	14	18	2	74.08
8	Production and post-harvest technology of fruits exotic to Karbi Anglong	0	12	24	44.45
9	Production technology for leafy vegetables	0	14	22	46.30
10	Production of ginger and turmeric, processing and value addition.	13	18	5	74.08
11	Production and management of seed and quality planting material in nursery	5	11	20	52.78
12	Cut flower Production	0	8	28	40.74
13	Techniques of Landscaping	4	10	22	50.00
14	Drip Irrigation in High value Horticultural Crops	0	8	28	40.74
15	Weed management in fruit orchard.	3	23	10	60.19
16	Hill slope cultivation of horticultural crops	19	15	2	82.41
17	Post harvest techniques, processing and value addition of some fruit and vegetables	8	20	8	66.67
18	Rejuvenation of horticultural orchard of selected crops.	33	3	0	97.23
19	Cultivation practices and value addition of traditionally grown root crops of Karbi Anglong	6	21	9	63.89
20	Planting material Production of fruit and vegetables	12	22	2	75.93

3. Training need on Soil Fertility management

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Soil sample collection, soil testing and Soil fertility management	8	21	7	67.60
2	Integrated nutrient management for cereals	16	18	2	79.63
3	Integrated nutrient management for pulses	18	14	2	77.78
4	Integrated nutrient management for cash crops	10	16	10	66.67
5	Integrated nutrient management for fruits and vegetables	6	10	20	53.71
6	Vermi-compost production	4	12	20	51.86
7	Foliar application of fertilizers in crops	4	25	7	63.89
8	Micronutrient management in crop production	10	20	6	70.37
9	Production and application of Bio fertilizer.	31	4	1	94.45
10	Soil and Water Conservation Technology	0	10	26	42.60
11	Contour Farming, gradient method of fertilizer application etc	23	11	2	86.12
12	Composting Technology	0	12	24	44.45
13	Problem Soil Management and reclamation techniques	0	5	31	37.97
14	Nutrient Management in Perennial fruit crops.	8	25	3	71.30
15	Rain Water Harvesting	0	26	10	57.41

4. Training need on Pest and disease management

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Integrated pest and disease management of oilseed	12	17	7	71.30
2	Integrated pest management of major cereals	14	17	5	75.00
3	Integrated pest and disease management of pulses	15	19	2	78.71
4	Integrated pest and disease management of cash crops	8	26	2	72.23
5	Integrated pest and disease management for fruits and vegetables	13	18	5	74.08
6	Pesticide formulation, preparation and application.	20	16	0	85.19
7	Home made insecticides, insect repellent, pesticide	19	12	5	79.63
8	Organic management of pest and diseases in major fruit and vegetable crops grown in Karbi Anglong	30	6	0	94.45
9	Recent advances in pest and disease control	36	0	0	100

10	Mushroom production, packaging and marketing techniques	6	24	6	66.67
11	ITKs in crop pest and disease management	18	16	2	81.49
12	Disease reaction of recommended rice varieties, IDM module ,organic rice production.	7	23	6	67.60

5. Training need on Agricultural Economics

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Market, Marketing channels of agricultural produce.	30	5	1	93.52
2	Record keeping and book keeping for efficient farm management	19	11	6	78.71
3	Calculation of some specific ratios important in farm management	11	18	7	70.37
4	Construction of a bankable agricultural project proposal.	22	14	0	87.04
5	Cost of cultivation of some important field crops grown in Karbi Anglong	12	24	0	77.78
6	Cost of cultivation of some important horticultural crops grown in Karbi Anglong	10	17	9	67.60
7	Economics of profitable pulse crops suitable for Karbi Anglong	13	18	5	74.08
8	Economics of profitable oilseed crop suitable for commercial cultivation commercial cultivation Karbi Anglong	7	19	10	63.89
9	Economics of some profitable fruit crop suitable for commercial cultivation in Karbi Anglong	21	12	3	83.34
10	Value chain management of spice crop widely grown in Karbi Anglong	9	27	0	75.00

6. Training need on Agricultural Extension

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Application of information and communication technologies (ICTs) in agriculture.	30	5	1	93.52
2	Use of participatory techniques (PTD, PRA, RRA, PLA etc.)	19	11	6	78.71
3	Soft Skill Development	11	18	7	70.37
4	Farmer-led and market-led extension strategies	12	16	8	70.37
5	Behavioral skills and motivational techniques	12	24	0	77.78
6	Gender sensitization in agriculture	0	22	14	53.71
7	Community resource utilization and contingency planning	0	29	7	60.19

8	Improving managerial ability	0	26	10	57.41
9	Management of training programme	21	12	3	83.34
10	Farmer's group organization and mobilization (FIGs, CIGs, SHGs etc.)	9	27	0	75.00

6. Training need on Miscellaneous areas

Sl. No	Areas of Training	Mostly needed	Somewhat needed	Less needed	TNI
1	Petroleum consevation techniques	0	3	33	36.12
2	Economically feasible farming systems for Karbi Anglong	27	6	3	88.89
3	Protection of Plant Variety and farmers right	32	4	0	92.60

Group Formation

Sl. No	Name of the Group	Place	Portfolio Holder
1	Mawthi Hangja Development Society	Dumukhi Jaljuri	Hiteswar Wary
2	Chingri Development Society	Narlongati	Borhom Enghi

PARTICIPATORY RURAL APPRAISAL, 2019-20

Village : Narlongati Adarsha
Block : Howraghat
Sub-Division : Diphu
Total farm families: 176(1100 population)
Caste : ST
Religion : Hindu
Exsisting Frming System : 1.Field crop +Horticultural crop + Animal Husbandry+Fishery

Field crops - Rice
 Horticultural crops Papaya, Areca nut,
 Animal husbandry Goat, Poultry, Pig
 Literacy

Up to Class 10	HSLC Passed	HSSLC Passed	Graduate & above
250	150	120	100

Occupation

Category	Service Holder	Agriculture & allied	Other
Nos. Of person	25	700	

Sl. No		
1	Total area	610 ha
2	Low land	400 ha
3	Up Land	100 ha
4	Homestead land	60 ha
5	Ponds & very low	50 ha
6	Total Cropped area	400 ha
7	Net sown area	400 ha
8	Area sown more than once	nil
9	Average per family land holding	2.2 ha (133 ha)
10	Major Farming System	Agri + Horti + Animal husbandry + sericulture

Yield Gap :

	Av.yield	Av. Recomeded yield	Yield gap
Rice	4.2 t/ha (Ranjit) 5 t/ha (Local, Gaya),Daria, Lathisali, Agarsali (3.0t/ha)	6.8 t/ha (Ranjit)	2.3 t/ha

Problems

1. Lack of Irrigation facility
2. . Lack of scientific knowledge in agriculture-rice, areca nut,piggery, poultry, fishery,
3. lack of good Input particularly seed

Animal status

Pig : 176 families
 Local Cows : 176 families
 Local Poultry : Almost all families
 Local Duck : Almost all families
 Goat : Almost all families
 Pond: 120 family

Milk and Egg Status

600
 300 lit (350 nos.)
 5500 bird, 4000 egg
 2000 bird, 800 egg
 400 nos.
 90qt fish

Farmers practices

Seed treatment	Not practiced
Fertilizer application	Not practiced
Control of disease	Not practiced
Control of pest	Chemical not practiced, some traditional method

Training need

1. Scientific cultivation practices of cereals specially Rice, Horticultural crop-areca nut, citrus, pumpkin, papaya
2. Training on scientific pig rearing, poultry rearing

FPC Formation

- Three awareness programmes on formation of FPC on Pig conducted at Sariahjan
- The FPC will have 200 pig rearers at first phase .
- Proposal submitted to NABARD, Diphu. and has received sanction.

Exposure visit

Exposure visit for Fish Farmers of Karbi Anglong District of Assam under Farm Sector Development Fund (FSPF) of NABARD, Beneficiary: 40

3.3. Achievements on Training

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

Thematic area	No. of Courses/ prog			Participants									Grand Total	
	On-Campus	Spon On*	Total	General			SC/ST			Total				
				Male	Female	Total	Male	Female	Total	Male	Female	Total		

	(1)	(2)	(1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	(x + y)
I. Crop Production: NIL																						
II. Horticulture																						
a) Vegetable Crops: NIL																						
b) Fruits																						
Cultivation of Fruit	-	1	1	-	-	-	-	-	-	-	19	-	4	-	23	-	19	-	4	-	23	23
TOTAL	-	1	1	-	-	-	-	-	-	-	19	-	4	-	23	-	19	-	4	-	23	23

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programmes																						
(*Sp. Off means Off Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prg.			Participants																		Grand Total
	Off	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off*	Off	Sp Off*	Off	Sp Off *	
I. Crop Production																						
Resource Conservation Technologies	3	-	3	2	-	18	-	20	-	23	-	30	-	53	-	25	-	48	-	73	-	73
Water management	1	-	1	3	-	12	-	15	-	6	-	7	-	13	-	9	-	19	-	28	-	28
b) Fruits																						
Processing and value addition	2		2	-	-	-	-	-	-	10	-	40	-	-	-	10	-	40	-	50	-	50
Cultivation of Fruit	2	-	2	30	-	1	-	31	-	19	-	5	-	24	-	49	-	6	-	55	-	55

c) Ornamental Plants																						
Propagation techniques of Ornamental Plants	1	-	1	-	-	16	-	16	-	-	-	13	-	13	-	-	-	29	-	29	-	29
d) Plantation crops																						
Production and Management technology	2	-	2	2	-	3	-	5	-	14	-	31	-	45	-	16	-	34	-	50	-	50
III Soil Health and Fertility Management																						
Soil fertility management	5	-	5	9	-	-	-	9	-	92	-	21	-	113	-	101	-	21	-	122	-	122
IV Livestock Production and Management																						
Poultry Management	1	-	-	2	-	9	-	11	-	4	-	13	-	17	-	6	-	22	-	28	-	28
VII Plant Protection																						
Integrated Pest Management	4	-	4	4	-	25	-	29	-	15	-	58	-	73	-	19	-	83	-	102	-	102
Integrated Disease Management	1	-	1	-	-	-	-	-	-	1	-	24	-	25	-	1	-	24	-	25	-	25
Oyster mushroom cultivation	2	-	2	-	-	2	-	2	-	1	-	50	-	51	-	1	-	52	-	53	-	53
X Capacity Building and Group Dynamics																						
Entrepreneurial development of farmers/youths	2	-	2	-	-	-	-	-	-	48	-	9	-	57	-	48	-	9	-	57	-	57
Livelihood security	2	-	2	-	-	-	-	-	-	42	-	8	-	50	-	42	-	8	-	50	-	50

SHG	1	-	1	-	-	-	-	-	-	16	-	10	-	26	-	16	-	10	-	26	-	26
TOTAL	29	-	28	52	-	86	-	13	8	29	-	31	9	560	-	34	3	405	-	74	8	748

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes

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

Thematic area	No. of Courses/ Prog			Participants																	Grand Total (x + y)	
	On (1)	Sp On * (2)	Total (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)		Sp. On (y= b +d)
Nursery Management of Horticulture crops	1	-	1	1	-	-	-	1	-	14	-	10	-	24	-	15	-	10	-	25	-	25
TOTAL	1	-	1	1	-	-	-	1	-	14	-	10	-	24	-	15	-	10	-	25	-	25

3.3.4. Achievements on Training of Rural Youth in Off Campus including Sponsored Off Campus Training Programmes

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

Thematic area	No. of Courses/ Prog.			Participants																	Grand Total	
	Of f	Sp Off	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f		Sp Off *
Organic cultivation	1	-	-	-	-	-	-	-	-	14	-	11	-	25	-	14	-	11	-	25	-	25
Commercial fruit production	-	-	-	1	-	-	-	1	-	10	-	8	-	19	-	11	-	8	-	19	-	19
Entrepreneursh ip Development in Agriculture	2	-	2	-	-	-	-	-	-	21	-	29	-	50	-	21	-	29	-	50	-	50

TOTAL	3	-	2	1	-	-	-	1	-	45	-	48	-	94	-	46	-	48	-	94	-	94
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C. Extension Personnel

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

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

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

Thematic area	No. of Courses/ prog.			Participants																	Grand Total	
	Of f	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off*	Of f	Sp Off *	Of f		Sp Off *
Leadership	1	-	1	-	-	-	-	-	-	-	-	25	0	25	-	-	-	25	-	25	-	25
TOTAL	1	-	1	-	-	-	-	-	-	-	-	25	0	25	-	-	-	25	-	25	-	25

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

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

Discipline	Area of training	Title of the training	Date (From	Duration in days	Venue	Please specify	General participants	SC/ST	Grand Total
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		programme	- to)			Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	M	F	T	M	F	T	M	F	T
Horticulture	Nursery management	Commercial nursery raising and propagation technique of Horticultural crops	15-10-19 to 17-10-19	3 days	KVK training Hall	RY	1	-	1	14	10	24	15	10	25

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	Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	Crop roduction	Scientific cultivation practices of Maize	17-08-2019 to 18-08-2019	2 Days	Bokolia	F & FW	0	7	7	2	14	1	2	2	23
Agronomy	Crop roduction	Organic Rice production	18-09-	4 Days	Daujingphan g	RY	0	0	0	14	1	2	14	1	25

			2019 to 21- 09- 2019													
Agronomy	Crop roduction	Scientific cultivation practices of Millets	24- 02- 2020 to 25- 02- 2020	2 days	Rongchitim gaon	F & FW				1 5	1 0	2 5	15	1 0	2 5	
Agronomy	Crop production	Advanced productiuon technology on potato	31- 10- 2019 to 1- 11- 2019	2 days	Manja	F & FW	2	1 1	1 3	9	3	1 2	11	1 4	2 5	
Agronomy	Crop production	Scientific cultivation practices of blackgram	19- 08- 2019	1 day	Bokolia	F & FW	1	7	8	2	1 3	1 5	3	2 0	2 3	
Agronomy	Crop production	Scientific cultivation practices of blackgram	26- 08- 2019	1 day	Dhansiri	F & FW		2	2		2 3			2 5	2 5	
Agronomy	Crop roduction	Scientific cultivation practices of Autumn Rice	15- 02- 2020 to 16- 02- 2020	2 day	Nilapur	F & FW				1 2	1 3	2 5	12	1 3	2 5	
Agronomy	Water management	Water management in field crops	4-12- 19 to 5-12- 2019	2 days	Nepali basti	F & FW	3	1 2	1 5	6	7	1 3	9	1 9	2 8	

Horticulture	Intercropping system	Multistorey cropping system	22-08-2019 to 24-08-2019	3 days	Sambudhongaon	F & FW				7	18	25	7	18	25
Horticulture	Intercropping system	Multistorey cropping system	12-09-2019 to 14-09-2019	3 days	Bokolia	F & FW	2	3	5	7	13	20	9	16	25
Horticulture	Flower production	Commercial flower production	5-11-2019 to 7-11-2019	3 days	Sunpuraa Gaon	FW		16	16		13	13		29	29
Horticulture	Fruit production	Production technology of commercial fruit crops	6-12-2019 to 8-12-2019	3 days	Barlangpher	F & FW		1	1	19	5	24	19	6	25
Horticulture	Fruit production	Production technology of commercial fruit crops	7-01-2020 to 11-01-2020	3 days	Watijor, Kheroni	F & FW	30		30				30		30
Horticulture	Processing and value addition	Post harvest management	2-02-2019 to 6-02-2020	5 days	Phuloni	F & FW				7	18	25	7	18	25
Horticulture	Processing and value addition	Post harvest management	1-03-2020 to 5-03-	5 days	Bokolia	F & FW		9	9		16	16		16	25

			2020												
Soil sc.	Fertility managemen	Fertilizer management in Rice	20-07-2019 to 23-07-2019	2 days	Sarupodum	F & FW				18	5	23	18	5	23
Soil sc.	Fertility managemen	Fertilizer management in Rice	01-01-2020 to 02-01-2020	2 days	Dilawjan	F	9		9	17		17	26		26
Soil sc.	Production and use of organic inputs	Production and use of compost, vermicompost and biofertilizers in crop production	03-01-2020	1 day	kuliagaon	F & FW				23	25	25	2	23	25
Soil sc.	Fertility management	Soil Fertility management in Toria for higher productivity	11-01-2020 to 12-01-2020	2 days	Phuloni	F & FW				15	8	23	15	8	23
Soil sc.	Organic cultivation	Organic cultivation of fruit	8-02-2020	1 day	Kekangadong	F & FW				24	3	27	24	3	27
Pl. protection	Integrated pest Management	IPM & IDM in Sali Rice	9-11-2019 to 10-11-2019	2 days	Disageteba	F & FW				4	22	26	4	22	26
Pl. protection	Integrated pest Management	IPM & IDM in Sali Rice	16-11-2019	2 days	Sariahjan	F & FW				3	23	26	3	23	26

			to 17-11-2019												
Pl. protection	Integrated pest Management	IPM in Pulse and Oilseed crops	11-12-2019	1 day	Nagaon basti	F & FW	1	2	2		1	1	1	2	2
Pl. protection	Integrated pest Management	IPM & IDM in Sali rice	24-12-2019	1 day	Patradish	F & FW	4	2	6	7	1	1	11	1	2
Pl. protection	Integrated pest Management	IPM & IDM in Sali rice	27-12-2019	1 day	Longi Ronghang	F & FW				1	2	2	1	2	2
Pl. protection	Mushroom production	Cultivation practices of Oyesteer Mushroom	03-01-2020 to 06-01-2020	4 days	Dengaon	F & FW				1	2	2	1	2	2
Pl. protection	Mushroom production	Cultivation practices of Oyesteer Mushroom	7-01-2020 to 10-01-2020	4 days	Howraghat	FW		2	2		2	2		2	2
Extension Education	Entrepreneurship Development	Entrepreneurship Development	23-09-2019 to 26-09-2019	4		PF	0	0	0	2	3	2	26	3	2
Extension Education	Entrepreneurship Development	Entrepreneurship Development	29-01-2020 to 30-	4		PF	0	0	0	2	6	2	22	6	2

			01-2020 and 4-02-2020 to 5-02-2020												
Extension Education	Entrepreneurship Development	Entrepreneurship Development	10-02-2020 to 14-02-2020	4		SHG	0	0	0	16	10	26	16	10	26
Extension Education	Entrepreneurship Development	Entrepreneurship Development	9-01-2020 to 12-01-2020	4		RY	0	0	0	16	95	25	16	95	25
Extension Education	Entrepreneurship Development	Entrepreneurship Development	11-09-2019 to 14-09-2020	4		RY	0	0	0	5	20	25	5	20	25

Extension Education	Entrepreneurship Development	IFS for Rural Livelihood Security	23-10-2020 to 25-10-2020	3		PF	0	0	0	21	4	25	21	4	25
Extension Education	Entrepreneurship Development	IFS for Rural Livelihood Security	12-03-2020 to 14-03-2020	3		PF	0	0	0	21	4	25	21	4	25
Extension Education	Leadership	Leadership Development	12-02-2020	1		EF	0	0	0	0	25	25	0	25	25
Animal Sc	Disease management	Management of common disease of Livestock and Poultry	17-03-2020 to 18-02-2020	2 days	Tinglijan	F & FW	2	9	11	4	13	17	6	22	28

(D) Vocational training programmes for Rural Youth

Crop /	Date	Duratio	Area of	Training	No. of Participants	Impact of training in terms of Self	Whether
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Enterprise	(From – To)	n (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				
Mushroom	9-09-2019 to 14-09-2019	6 days	Production of Oyester Mushroom	Cultivation practices of Oyester Mushroom				1	1	1	1	1	1	1	4	5	Mushroom production				42000.00
Mushroom	25-02-2020 to 20-003-2020	25 Days	Mushroom production	Skill training on Mushroom grower		3	3	4	1	1	4	1	6	2							196000.00
Organic farming	25-02-2020 to 20-003-2020	25 Days	Organic farming	Skill training for Organic grower	2		2	1		1	2			2							196000.00

*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)	Duratio n (days)	Discipli ne	Area of training	Title	No. of Participants									Sp ons ori ng Ag enc y	Amo unt of fund recei ved (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On	F	25-06- 2019 to 29- 06- 2019	5 days	Horticul ture	HDP in Banana	Advanced production technologies in Horticultura l crop with special reference to High Density Planting in Banana	-	-	-	3 0	-	3 0	3 0	-	3 0	DB T	7000 00.00
On	F	25-06- 2019 to 29- 06- 2019	5 days	Horticul ture	Scientifi c Cultivati on of Turmeri c and Banana	Modern technology of horticultural crops with special reference to Turmeric and Banana	-	-	-	3 0	-	3 0	3 0	-	3 0	DB T	

On	F	27-02-2020	2 days	Horticulture	Commercial fruit crops	Production of commercial fruit crops	-	-	-	20	5	25	20	5	25	Dal mia Bharat Foundation	1000.00
Total	-	-	-	-	-	-	-	-	-	80	5	85	80	5	85		7100.00

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 2019-20

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants												
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)			
					M	F	T	M	F	T	M	F	T	M	F	T	
1.	Advisory services	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	1140
2.	Diagnostic visit	-	-	42	12	5	17	84	19	103	-	-	-	96	24	120	
3.	Field day	Sali rice vr. Tripura Chikn Dhan, Soil Test Based fertilizer application, Commercial cultivation of pumpkin var. Arjuna F1, Indian mustard NRCHB 101	13.11.19 25.11.19 15.02.20 06.03.20	4				59	25	84				59	25	84	
4.	Group	Custom	25.04.19	2				44	3	47				44	3	47	

	Discussion	Hiring Centre, Commercial nursery mngement	07.11.19														
5.	Kishan Gosthi			-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kishan Mela	-	07.09.19	1	-	-	-	-	-	-	-	-	-	-	-	-	124
6.	Film show			-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.	SHG formation			-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Exhibition	1	07.09.19	1	-	-	-	-	-	-	-	-	-	-	-	-	325
9.	Scientists visit to farmers fields	-	-	125	26	15	41	238	46	284	-	-	-	264	61	351	
10.	Plant/ Animal Health camp	Animal Health camp	11.09.19	1	1	8	9	2	43	45	4	1	5	3	51	54	
11.	Method demonstration	Seed selection of rice Fertilizer application in rice Drum seeder Weedicide aapplication Stem cutting of Assam lemon Succer treatment of banana Stem cutting of Assam lemon Propagation method of major flower crops	17.06.19 31.07.19 03.07.19 31.07.19 23.08.19 14.09.19 16.10.19 22.11.19	8	-	13	13	66	81	147	-	-	-	66	94	160	

12.	Celebration of important days	Foundation Day, World Environment Day, Independence Day, Gandhi Jayanti, World Food Day, Indian Constitution day, Rastriya Ekta Diwas, World Soil day, Kisan Diwas, Republic Day, International Womens day	01.04.19 05.06.19 15.08.19 02.10.19 16.10.19 26.11.19 31.10.19 05.12.19 23.12.19 26.01.20 08.03.20	11	86	86	172	130	166	296	-	-	-	216	252	468
13.	Exposure visits		29.06.19	1	-	-	-	60	-	60	-	-	-	60	-	60
14.	Workshops	Petroleum product conservation	10.02.20	1	-	-	-	22	3	25	-	-	-	22	3	25
15.	Extension literature			3	-	-	-	-	-	-	-	-	-	-	-	-
16.	Newspaper coverage			23	-	-	-	-	-	-	-	-	-	-	-	-
17.	Popular articles			1	-	-	-	-	-	--	-	--	-	-	-	-
18.	Training manual			1	-	-	-	-	-	-	-	-	-	-	-	60
19.	Soil health camp		05.12.19	1	4	1	5	28	14	42				32	15	47

20.	Awareness camp	Prime Minister Kisan Man Dhan Yojan FPO Launching of NADCP Large scale tree plantation Swachhta Fertilizer Application International Potato Conclave	09.08.19 21.08.19 11.09.19 17.09.19 26.09.19 22.10.19 29.01.20	7	42	25	67	161	238	399	-	-	-	203	263	466
21.	Lecture delivered as resource person			15	-	-	-	-	-	-	-	-	-	-	-	450
22.	PRA	21.02.20		1	-	-	-	30	-	30	-	-	-	30	-	30
23.	Farmer-Scientist interaction	26.04.19 07.09.19		2	-	-	-	41	7	48	-	-	-	41	7	48
24.	Research Publication			8	-	-	-	-	-	-	-	-	-	-	-	₹
25.	Soil & plant analysis			35	-	-	-	-	-	-	-	-	-	-	-	103
Grand Total				334	171	153	324	965	645	1610	4	1	5	1136	798	4162

3.5 Production and supply of Technological products during 2019-20

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries
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					General	SC/ST	Total
CEREALS							
OILSEEDS	Toria	TS-38	0.6q	5100.00	0	4	4
PULSES	Blackgram	IPU-0243	0.09 q	1080.00			
OTHERS (Specify)	Turmeric	Megha Turmeric-1	14q	42000.00	0	21	21
	Ginger	Nadia	5q	30000.00		5	5

A1. SUMMARY of Production and supply of Seed Materials during 2019-20

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS					
2	OILSEEDS	0.015	1240.00			
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS	5.825	27210.00			
TOTAL						

B. Production of Planting Materials (Nos. in lakh)

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Spices	Blackpepper	Panniyur-1	0.0084	1680.00			
	Chillies		0.008	80.00			
VEGETABLES	Brinjal		0.0175	450.00			
	Tomato		0.002	30.00			

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2019-20

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total

1	Fruits					
2	Spices					
3	Ornamental Plants					
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)					
TOTAL						

C. Production of Bio-Products during 2019-20

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

C1. SUMMARY of production of bio-products during 2019-20

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

D. Production of livestock during 2019-20

Sl. No	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries
			(Nos)	Kgs		

.						General	SC/ST	Total
1	Cattle/ Dairy							
2	Goat	Beetal	1		9000.00			
3		Local	4		10000.00			
4	Poultry	Rainbowrooster	3	15	3000.00			
5		Rainbow rooster (egg)	68		544.00			
6		Quail (egg)	2		6.00			
7	Fisheries							
8	Others (Specify)	Rabbit	2		300.00			

D1. SUMMARY of production of livestock during 2019-20

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	SHEEP & GOAT	Beetal and Local	5		19000.00			
3	POULTRY	Rainbow rooster, Quail	3(live bird) 70 eggs	15 kg as meat	3550.00			
TOTAL		Beetal and Local Rainbow rooster, Quail	Shhep/goat 5 3(live bird) 70 eggs	15 kg as meat	22550.00			

3.6. Literature Developed/Published (with full title, author & reference) during 2019-20

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): 01-04-2019, Annual, 200 copies

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Enhancing Rural Economy through Broom Grass Cultivation in Karbi Anglong District of Assam. <i>Journal of Community Mobilization and Sustainable Development</i> 14(1):160-162.	Nilim Kalita, Sanjib Bhuyan, H.K. Deva Nath, M. Rongpharpi, P. Amonge, P. Basumatary, and S. Maibangsa	-
2.	On Farm Assessment of Foliar Application of Urea in Toria (<i>Brassica campestris</i> L.) under Rainfed Condition in Hill Zone of Assam. <i>International Journal of Agriculture Sciences</i> 11 (15): 8865-8867.	Nilim Kalita, Subal Maibangsa, Sanjib Bhuyan and Ranjit Kr. Saud	-

3.	Effect of Biofertilizer Seed Treatment on Growth, Yield and Economics of Toria (<i>Brassica Campestris</i> L.) under Rainfed Condition in Hill Zone of Assam <i>Curr. Agri. Res.</i> , 7(3): 332-336	Nilim Kalita, Sanjib Bhuyan, Subal Maibangsa and Ranjit Kr. Saud	-
4.	Microbial and Sensory Evaluation of Kujithekera (<i>Garcinia cowa Roxb</i>). <i>Int. J. Curr. Microbiol. App. Sci.</i> 2019.810.267	Shourov Dutta , Manoranjan Neog and Purnima Pathak..	-
5.	Energy Utilization in Rapeseed cultivation under different irrigation scheduling and planting geometry. <i>International Journal of Chemical Studies</i> ,7 (6):869-871	K. Konwar, A. Sarma, D. Bhattacharya, A. Mangshatabam, P. Boruah and K. Sarmah	-
6.	Productivity and Profitability of Rapeseed (<i>Brassica rapa</i> var. dichotoma) under system of Rapeseed intensification. <i>Journal of Oilseed Brassica</i> , 10(2):106-111	K. Konwar, A. Sarma, K. Bharadwaj and P. Boruah	-
7.	Isolation and Molecular Identification of <i>Riemerella anatipestifer</i> from Ducks in Assam. <i>Int. J. Curr. Microbiol. App. Sci</i> 9(3)	Ritam Hazarika, M. K. Doley , H. Sarmah, P. Deka and R. K. Sharma	-
8.	Development of an indicator based composite measure to assess livelihood sustainability of shifting cultivation dependent ethnic minorities in the disadvantageous Northeastern region of India. <i>Ecological Indicators</i> 110: 105934	Sudipta Paul, Tarun Kumar Das, Ramsem Pharung, Sanjay Ray, Nilimesh Mridhae, Nilim Kalita , Vanlalduati Ralte, Sanjoy Borthakurh, Rajarshi Roy Burman, Anil Kumar Tripathia, Ashok Kumar Singh	-
Training manuals	Training Manual on Advanced Production Technology of Horticultural Crops With Special Reference to Banana and Turmeric	S. Maibangsa, N. Kalita, S. Dutta and L. Kataki	-
Training manuals	Training manual On Organic grower	N. Kalita, S. Maibangsa, S. Buyan, R.K. Saud	
Training manuals	Training manual on Mushroom grower	L. Kataki, S. Maibangsa, R.K. Saud	
Popular articles	Quail farming: An avenue for income generation and self employment. The Hills Times on 09.03.2020	Monuj Kr. Doley & Neethi Baruah	-
Technical bulletins			
Extension bulletins	1. Fall Armyworm (<i>Spodoptera frugiperda</i>)- A Destructive and invasive pest detected in Karbi Anglong. June 2019	S. Maibangsa, L. Kataki, P. Saikia, R. K. Saud, P. Tissopi, P. Baruah, N. Kalita, S. Bhuyan, S. Dutta.	100 100

	2. Improved practices for Backyard Poultry Farming. Jan.2020	M.K. Doley, S. Maibangsa, R.K Saud, S. Bhuyan and Neethi Baruah.	100
	3. Drought Management Strategies for Upland Rice Cultivation. Bull. No. AAU/KVK/KARB/NP/02/085	N. Kalita, S. Maibangsa, S. Bhuyan, R.K. Saud, L. Kotoky and Larbeen Teronpi (2020).	
	4. Organic cultivation of Bhut jolokia	S. Dutta, S. Maibangsa, M. Neog, R. K. Saud, L. Kataki, P. Boruah	
Newsletter	KVK Newsletter Vol.2		100
TOTAL			400

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

(C) Details of Electronic Media Produced

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

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

Horticulture and livestock farming brings smile to youth in Karbi Anglong

Mr. Jirjar Hanse of Rupsing Hanse village, Karbi Anglong an unemployed youth is involved in traditional farming. He cultivated pine apple in traditional way with little profit and also reared local poultry and pigs in a small scale where the productivity and profit was very less. He could not start commercial farming due to lack of knowledge as well as financial weakness.

KVK Interventions

The village Rupsing Hanse was selected as adopted village and for doubling farmers' income by 2022 where different activities under various projects were undertaken in the village. Mr. Jirjar Hanse along with other youths and farmers of the village, received trainings on entrepreneurship development, scientific and commercial farming of piggery and poultry, commercial cultivation of fruits and vegetables, mushroom cultivation and also on commercial fishery during the period 2017-2019. Mr. Jirjar Hanse was selected for establishing poultry based farming enterprise i.e. dual purpose poultry var. 'Vanaraja' farming during 2017-18 under the provision of the project ARYA. The improved dual purpose poultry variety Vanaraja was unheard to him till implementation of the project. Vanaraja was gladly accepted by Jirjar Hanse and initially he was provided housing support, day old chicks (200 numbers) along with feed, vaccines and medicines. Being prudent in poultry rearing by nature, he fully dedicated to the successful rearing of the new breed with a hope to earn greater income for his family.

With the initiative of KVK, Mr. Hanse and other youths and farmers of the village were linked with Langpi Dehangi Rural Bank, Diphu to avail loan as and when required. They had formed four Joint Liability Groups consisting of 28 farmers and received rupees 13.5 lakhs as loan for commercial agricultural enterprises. Jirjar Hanse started a piggery unit with five nos. of pigs and pine apple cultivation in an area of 2.5 bighas of land.

KVK, Karbi Anglong also linked the village with Deptt. of Fishery, KAAC and their village was selected for “fish village scheme” and granted Rs. 6.0 lakhs to develop the ponds to fisheries. Jirjar Hanse also converted his ponds to fisheries of 0.53 ha under this scheme during 2018-19.

Mr. Hanse earned net income of Rs. 27,000 from first batch of rearing poultry through selling live birds @ Rs. 200/kg in only 3-4 months. He increased capacity of the rearing house and bought 300 chicks newly in 2018 and earned Rs 35000. He continued the rearing of vanaraja one after another batch of 300 chicks and earning Rs 30000-36000 per batch. Thus he earns about Rs 60000 to 72000 per year from poultry.

He started his piggery unit with five nos. of pig and after one year he earned Rs. 54000 by selling two adult pigs and piglets. With this money he increased the size of his unit to accommodate ten pigs and rest of the profit was spent on repayment of the loan. Presently he is earning Rs 40000-50000 per year from piggery. Mr. Hanse, from his pineapple cultivation of 2.5 bigha earned Rs 10000 by selling 1.0 q during 2019-20 (first year of production). Mr. Hanse at present is producing fish and earned Rs. 75000.00 from his fishery unit during 2019-20.

Mr. Hanse is earning an amount of Rs. 185000-200000 annually. Inspired by the success of Mr. Hanse some rural youths of his village started rearing of Vanaraja, commercial pig farming and commercial pine apple cultivation.





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

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

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

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

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

3.11 Field activities

- i. Number of villages adopted - 11
- ii. No. of farm families selected- Nil
- iii. No. of survey/PRA conducted-1 no.

Sl. No	Name of the Equipment	Qty.	Cost
1	Rotary shaker horizontal	1 no	16500.00
2	Water distillation plant (still wall mounted type)	1 no	9970.00
3	Double water distillation apparatus	1 set	27800.00
4	Spectrophotometer	1 no	23488.00
5	Flame photometer with Sodium & potassium filters	1 no	22490.00
6	pH meter	1 no	7384.00
7	Conductivity bridge	1 no	8673.00
8	Chemical balance	1 no	32500.00

9	Physical balance (5 kg capacity)	1 set	4500.00
10	Physical balance (2.5 kg capacity)	1 set	3000.00
11	Oven	1 no	18960.00
12	Hotplate	1 no	3000.00
13	Refrigerator (Samsung)	1 no	14062.50
14	Earth augar	1 no	32084.00
15	Grinder for grinding plant material	1 no	14000.00
Total			238411.50

3.12. Activities of Soil and Water Testing Laboratory

- Status of establishment of Lab :
1. Year of establishment :
 2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		Mridaparikshak	Nagarjuna pvt. Limited	2	-
Total					

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	35	103	14	
Water Samples	-	-	-	
Plant Samples	-	-	-	
Petiole Samples	-	-	-	
Total	35	103	14	

4.Details of Soil Health Cards (SHCs) (2019-20)

- a. No. of SHCs prepared :103
- b. No. of farmers to whom SHCs were distributed: 103
- c. Name of the Major and Minor nutrients analysed: N. P, K, B, Zn
- d. No. of villages covered:14
- e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page)

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												
Text only														
Total														

3.14 Contingency planning for 2019-20

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
	Any other (Please specify)				

a. Livestock based Contingency planning

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

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)

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. Regional Agril. Research Station, AAU, Diphu	Technical and Advisory, Execution
2. Assam Agril. University, Jorhat	Technical and Advisory, Execution
3. ICAR for NER, Umiam	Technical and Advisory, Execution
4. Dept. of Agril. , K/A ,Diphu	Technical and Advisory, Execution
5. Dept. of AH, Vety, K/A ,Diphu	Technical and Advisory, Execution
6. Dept. of Fishery, K/A, Diphu	Technical and Advisory, Execution
7. Dept. of Forest , K/A , Diphu	Technical and Advisory
8. Dept. of Industries and Commerce, K/A, Diphu	Technical and Advisory
9. HRS, AAU, Kahikuchi	Technical and Advisory
10. Karbi Farmers Association	Technical and Advisory & Extension
11. ASRLM	Technical and Advisory & Extension
12. Dept. of Agril., NC Hills	Technical and Advisory & Extension
13. AAU, Khanapara, Guwahati	Technical and Advisory & Extension
14. Krisak Adhikar Suraksha Samiti	Technical and Advisory & Extension
15. Soil conservation Divison, Diphu	Technical and Advisory & Extension
16. Coconut Development Board	Technical & Extension
18. NABARD	Joint implementation and Training programme
19. RSETI	Conducting training programmes

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 of special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2019-20

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
DBT Biotech Kisan Hub Project	Demonstration, Training and Exposure visit	April 2019	DBT	12,00,000.00
PMKVY	Skill training	February, 2020	ASCI	3,92,000.000

RKVY-RAFTAAR	Demonstration, training, Field day	October, 2019	MoA, GoI	1,80,000.00
STRY	Skill training	9-14 September, 2019	MANAGE	42000.00
PCRA Workshop	Workshop on Petroleum conservation	February, 2020	PCRA	8300.00
Sponsored training	Training	March, 2020	Dalmia Bharat Foundation	10000.00

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2019-20

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

6.2 Performance of instructional farm (Crops) including seed production

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	
Pulses									
Green gram									
Black gram	5/9/2019	2/12/2019	0.006	IPU-	Certified	09	600.00	1080.00	

				0243		kg			
Oilseeds									
Mustard	29.10.2019	31.01.2020	0.2	TS-38	Certified	0.6q	2600.00	5100.00	
Spices & Plantation crops									
1. Turmeric	7/3/2019	26/2/2020	0.15	Megha turmeric-1	Planting material	14q	15000.00	42000.00	

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Goat	Beetal + Local	-	1+4	2350.00		

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/R/Y/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

6.6. Utilization of hostel facilities (Month-Wise) during 2019-20

Accommodation available (No. of beds) :

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

				stayed)	
October	ASRLM Training	8 days	22	8	
December	APART Project		1	15	
January	APART Project		1	25	
February	Skill training	25 days	5	25	
	APART Project		1	5	
March	APART Project		1	7	
Total	-	33	31	85	
Grand total	-	33	31	85	

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	-	-	-
With KVK	State Bank of India	Diphu, Karbi Anglong	11007471891
Revolving Fund	State Bank of India	Diphu, Karbi Anglong	30719643308
With KVK (PFMS A/C)	State Bank of India	Diphu, Karbi Anglong	38351519661

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2019-20

S. N o.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	115.00	144.17	144.17*
2	Traveling allowances	2.00	1.60	1.60

3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		15.00	10.91	10.73
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture	2.00	--	**
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

Note: *DA arrear and NAP arrear amounting Rs. 4.13 L has not shown in the calculation.

** As desired by the Office of DEE, AAU, Jorhat requisition for equipment has submitted for centrally purchase by AAU, Jorhat.

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2017 to March 2018	0.64221	1.05332	0.25	1.67053
April 2018 to March 2019	1.67053	0.77560	0.51658	1.92955
April 2019 to March 2020	1.92955	0.75966	0.038	2.65121

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative: Land for permanent KVK campus acquired, proposal submitted for shifting to the new site.

Concurrence from the council is awaited.

(b) Financial

(c) Technical

(Signature)
Programme Coordinator