

## ANNUAL REPORT, 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
Krishi Vigyan Kendra, Chirang PO: Kajalgaon, Dist: Chirang BTAD, PIN: 783385	Office	FAX	kvkbngn@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Assam Agricultural University Jorhat-785013	0376-2340013	0376-2340001	<a href="mailto:kvkaau@gmail.com">kvkaau@gmail.com</a> ,

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Kameswar Das	8721024501	9854071472	kameswardas@rediffmail.com

#### 1.4. Year of sanction: 2004

#### 1.5. Staff Position (As on 31<sup>st</sup> 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. Kameswar Das	Head	Agronomy	144200-218200	199600	17.08.11	Permanent	General
2	Subject Matter Specialist	Dr. Hiranya Kumar Baruah	SMS	Agril. Economics	56100-177500	75400	07.11.08	Permanent	General
3	Subject Matter Specialist	Ms Mandakini Bhagawati	SMS	Horticulture	56100-177500	63100	10.10.15	Permanent	General
4	Subject Matter Specialist	Dr Rajeev Bhandar Kayastha	SMS	Animal Science	56100-177500	63100	17.10.15	Permanent	General
5	Subject Matter Specialist	Mr. Mahesh Kalita	SMS	Agronomy	56100-177500	63100	04.02.14	Permanent	General
6	Subject Matter Specialist	Ms. Juri Talukdar	SMS	Entomology	56100-177500	59500	26.04.18	Permanent	OBC
7	Subject Matter Specialist	Mr. Poran Kishor Dutta	SMS	Soil Science	56100-177500	57800	25.08.18	Permanent	General
8	Programme Assistant	Mr Sailen Talukdar	Programme Assistant	Crop Physiology	35400-112400	52000	21.03.09	Permanent	SC
9	Computer Programmer	Anirban Singha	Computer Programme Assistant	-	35400-112400	39900	06.08.15	Permanent	General
10	Farm Manager	Mr Jyotish Sarma	Farm Manager	Crop Physiology	35400-112400	42300	09.09.11	Permanent	General
11	Accountant cum Superintendent	Mr. Pradip Kumar Roy	Supperintendent cum Accountant	-	35400-112400	41100	25.02.12	Permanent	OBC
12	Jr. Stenographer cum computer operator	Mr. Mrinmoy Jyoti Dutta	Jr. Stenographer cum computer operator	Stenography	25500-81100	26300	04.02.19	Permanen	General
13	Supporting staff	Mr. Levi Murmu	Supporting staff	-	12000-37500	28040	16.10.04	Permanent	OBC
14	Driver	Mr. Lakhi Ram Brahma	Driver cum	-	21700-	26800	20.02.12	Permanent	ST

			Mechanics		69100				
15	Driver	Mr. Sanju Boro	Driver cum Mechanics	-	21700-69100	26800	20.02.12	Permanent	ST
	<b>Total</b>								

- 1.6. a. Total land with KVK (in ha) :12.00 ha  
b. Total cultivable land with KVK (in ha):7.49 ha  
c. Total cultivated land (in ha) :6.00 ha

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building)	4.00
2.	Under Demonstration Units	2.00
3.	Under Crops (Cereals, pulses, oilseeds etc.)	2.00
4.	Under vegetables	1.00
5.	Orchard/Agro-forestry	2.00
6.	Others (Medium land)	1.00

### 1.7. Infrastructural Development:

#### A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building with training hall	ICAR	31.3.13	400	47,19,000.00	-	-	-
2.	Conference hall	TSP	31.3.15	25	200000.00			
3.	Farmers Hostel	-	-	-	-	-	-	-
4.	Staff Quarters (6)	-	-	-	-	-	-	-
5.	Demonstration Units (2)					-	-	-
	a. Azolla tank	RKVY	31.03.13	51	246000.00			
	b. Vermicompost unit	RKVY	31.03.13	52	246000.00			
	c. Shade net house	RKVY	31.3.14	100	500000.00			
	d. Goatary unit	TSP	31.3.19	45	200000.00			
	e. Poultry unit	TSP	31.3.19	45	200000.00			
	f. Bioflocks	TSP	31.3.19	20	35000.00			
	g. Dragon fruit unit	TSP						Progress
	h. Kitchen Garden unit	KVK						Progress
6	Godown	RKVY	31.3.15	300	1000000.00			
7	Parking stand	TSP	31.3.14	90	180000.00			
8	Garrage	TSP	31.3.19	42	160000.00			
9	Fencing	ICAR	31.3.13	406 m	1500000.00-	-	-	-

#### B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	AS03 E 0026	2006	4.90 lakh	152207	Good
Tractor	19B 1740	2006	3.66 lakh	1207	Good
Motorcycle	AS26 9226	2017	0.67 lakh	30000	Good

#### C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Copier Machine (1 No.)	2006-07	0.54	Good
Digital Camera (1 No.)	2015-16	0.14	Good
Copier Machine (1 No.)	2009-10	1.20	Good

Computer (2 No.)	2009-10	0.63	Good
Computer (2 No.)	2016-17	1.00	Good
Computer UPS (1 No.)	2009-10	0.12	Good
LCD projector (1 No.)	2009-10	0.98	Good
Laser printer (1 No.)	2009-10	0.06	Good
Scanner (2 No.)	2009-10	0.07	Good
Ralson By Closure Machine (1No.)	2011	-	Good
Mixer Grinders (1No.)	2012	-	Good
Autoclave(1 no)	2012	-	Good
Universal Hot air Oven (1 No)	2012	-	Good
Rotary Flask shaker Shaker (1 No)	2012	-	Good

### 1.8. A). Details SAC meeting\* conducted in the year 2019-20 : Nil

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1		Could not be conducted due locked down as it was fixed on 28.3.20		

\* 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 (field crops)—Horticulture (Fruits and vegetables)
2.	Agriculture (Field crops)—Animal Husbandry (Piggery, duckery, goatary, poultry and dairy)
3.	Agriculture (Field crops) – Fishery
4.	Agriculture (Field crops)—Sericulture (Eri and muga silkworm)
5.	Agriculture (Field crops)—Horticulture – Animal Husbandry (Piggery, duckery, goatary, poultry and dairy)
6.	Agriculture (Field crops)—Horticulture (Fruits and vegetables)—Fishery
7.	Agriculture (Field crops)—Horticulture (Fruits and vegetables)—Forestry
8.	Agriculture (Field crops)—Animal Husbandry (Piggey, duckery, goatary, poultry and dairy)-Fishery
9.	Agriculture (Field crops)—Animal Husbandry (Piggey, duckery, goatary, poultry and dairy)-Forestry

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

#### A. Agro-climatic Zone:

Sl. No	Agro-climatic Zone	Characteristics
1.	Lower Brahmaputra Valley Zone	The soil of the zone is mostly acidic in nature and soil PH gradually increases towards the river Brahmaputra. The soil is medium to high in organic carbon and available N and P <sub>2</sub> O <sub>5</sub> low and medium in K <sub>2</sub> O status. Four orders of soils are found in the zone (i) Entisol, (ii) Inceptisol, (iii) Alfisol and (iv) Ultisol.

#### B. Agro-ecological Situations

Sl. No	Agro-climatic Zone	Characteristics
1.	Foot hill old mountain valley alluvial plain	The northern part of the district comprising this situation contains old mountain valley alluvial soils (Alfisol & Ultisol). Build up of alluvial materials washed down from the hill slopes. Surface soil is light yellow to pale brown, compact, sticky and plastic. Generally, medium to heavy in soil texture. The elevation is higher towards foot hills which gradually slop towards south.
2.	Flood prone recent riverine alluvial plain	Recent riverine alluvial (Entisol), sandy to sandy loam in soil texture. This situation is represented by an almost flat topography which often experiences flood hazard. Apart from some natural depressions, some riverine islands are also in existence.
3.	Flood free riverine	Old riverine alluvial type (Inceptisol). The texture of the surface soils ranges from sandy

	alluvial middle plain	loam to loam, silty clay loam, silty clay and clay. The topography is almost plain.
4.	Char like land	New alluvial plains, neutral in reaction, sandy-silty-clayey, sandy-silty and sandy in soil texture (Entisol). Chronically flood affected areas except the stable chars.
5.	Beels	Entisols, usually peaty in nature and texturally these are silty and clay. Low lying waste land areas

### 2.3 Soil types

Sl. No	Soil type	Characteristics	Area in ha
1.	Light gray	Sandy loam to silty loam in texture	186.00
2.	Red soil (Mixed)	High in 'Fe' and 'Al' oxides. Fairly well drained soil	48349.33
3.	Sandy soil	Light textured soil	162.66
4.	Sandy loam	Medium textured	489.50
5.	Clay loam	Heavy textured. Poor external as well as internal drainage	228.54

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

S.I. No.	Crop	Area (ha)	Yield	
			Production (MT)	Productivity (Kg/ha)
<b>Cereal crops</b>				
1	Autumn Rice	10568.5	10663.62	1009
2	Winter Rice	38910.6	61634.40	1584
3	Boro Rice	1566	3875.85	2475
	<b>Total Rice</b>	51125.1	73875.77	1445
4	Wheat	1064	1755	1649
5	Maize	478	291	609
	<b>Total production</b>		<b>75921.77</b>	
<b>Pulse crops</b>				
6	Arahar	382.5	318.62	833
7	Greengram	143.5	58.26	406
8	Black gram	1364	636.98	467
9	Gram	213	100	470
10	Lentil	2050.5	1060.10	517
11	Peas	883	675.50	765
12	Other Pulses	754	367.95	488
13	<b>Total Production</b>		<b>3217.41</b>	
<b>Oilseeds</b>				
14	Rapeseed & Mustard	8683.5	3490.77	402
15	Castor	28.5	9.5	333
16	Sesamum	829	369.73	446
17	Linseed	178	78.50	441
18	Niger	631.5	327.12	518
	<b>Total Production</b>		<b>4275.62</b>	
<b>Horticultural crops</b>				
19	Papaya	155	2208	14245
20	Banana	924	11623.0	12579
21	Orange	972.5	8166.08	8397
22	Pineapple	683.5	12726.77	18620
23	Sweet Potato	236	708	3000

24	Tapioca	542.5	2358.79	4348
25	Potato	3426	25766.95	7521
26	Colocasia	277	3878	14000
27	Citrus	621	4657.5	7500
28	Arecanut	5071.54	164825.05	32500
29	Coconut	407	<b>1159.95</b>	2850
30	Mango	304.2	2112.36	6944
31	Litchi	183.5	2752.5	15000
32	Guava	138.5	9002.5	65000
33	Watermelon	<b>12</b>	540.0	45000
	<b>Total production</b>		<b>63557.59</b>	
	<b>Spice crops</b>			
34	Chillies	936.5	595.6	636
35	Onion	300.5	601	2000
36	Black Pepper	81.4	135.7	1667
37	Turmeric	719	27753.4	38600
38	Ginger	623	4337.3	6962
39	Coriander	283	155.65	550
40	Garlic	257	1799.0	7000
	<b>Total production</b>		<b>4894.3</b>	
	<b>Commercial crops</b>			
42	Sugarcane	92	3330	36196
	<b>Total production</b>		<b>3,330</b>	
	<b>Fibre Crop</b>			
43	Jute	1530.3	2592	1694
44	Mesta	156.3	189	1214
	<b>Total production</b>		<b>2781</b>	
	<b>Vegetables</b>			
45	Kharif vegetables	1984	31992	16125
46	Rabi vegetables	4321	48628	11254
	<b>Total production</b>		<b>80620</b>	

## 2.5. Weather data

Month/Year	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2019	110.2	34.2	19.8	80.4
May 2019	349.1	35.1	20.1	87.2
June 2019	591.3	36.3	21.5	88.3
July 2019	355.2	35.0	21.3	86.8
August 2019	295.8	37.0	24	79.3
September 2019	473.8	34.0	21.0	84.5
October 2019	65.6	34.0	20.0	80.4
November 2019	4.0	29.6	12.0	76.2
December 2019	0	27.0	9.0	76.1
January 2020	1.2	25.2	5.0	70.6
February 2020	0.6	25.4	8.4	75.3
March 2020	35.5	27.1	11.0	75.5

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

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	462	1329 liters/day	3.31 litres./day
<i>Indigenous</i>	36952	9000 liters/day	300 ml/day

<b>Buffalo</b>			
<i>Crossbred</i>	194	500 liters/day	3 liters/day
<i>Indigenous</i>	666	600 liters/ day	1 liters/day
<b>Sheep</b>			
<i>Crossbred</i>			
<i>Indigenous</i>	6167	-	-
<b>Goats</b>	24902	10 ton kg/year	5 kg/animal
<b>Pigs</b>			
<i>Crossbred</i>	4948	60 ton kg/year	25 kg/animal
<i>Indigenous</i>	9412		
<b>Rabbits</b>	-	-	-
<b>Poultry</b>			
Backyard	68320	Meat: 5 ton/year Eggs: 32 lakhs nos	Meat: 0.83 kg/ animal 90 eggs/bird
Farm	255913		
<i>Improved</i>	-	-	-
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production(MT)	Productivity (Kg/ha)
Fish	2695	57394.31	2150
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

Category	Area (ha)	Production(MT)	Productivity (Kg/ha)
1. Tank and pond	332	7138	2150
2. Beel	6201	21393	345
3. River	256	640	250
4. Paddy field	621	9135	150
5. Forest Fishery	0.85	46	550
6. Others	211	369	175

(Source: SREP, Chirang)

Note: Pl. provide the appropriate Unit against each enterprise

## 2.6 Demographic details

Sl.No.	Particulars	Quantity
<b>i)</b>	<b>Population</b>	
	Male	2,44,675
	Female	2,37,143
	Total Population	4,81,818
	Rural	44,6290
	Urban	35,528
<b>ii)</b>	<b>Population Density/sq.km</b>	244
<b>iii)</b>	<b>Literates</b>	266380
	Male (%)	55.95
	Female (%)	44.06
<b>iv)</b>	<b>Details on SC/ST population</b>	
	Male	92040

	Female	89622
	Total Population	181662
	Literacy rate (%)	
	Male	60.90%
	Female	49.49%
	Total Literacy rate	55.28%
v)	Major languages spoken in the district	Bodo, Assamese, Nepali, Bengali, Hindi
vi)	Infant mortality rate	23.4 per 1000

### 2.7 Block wise Literacy rate (%) details

Sl.No.	Name of the block	Total literacy		
		Male	Female	Total
1	Sidli	56.49	43.51	52.16
2	Dangtal (part)	54.36	45.64	75.84
3	Borobajar	53.33	46.67	43.84
4	Manikpur (part)	53.68	46.31	69.28
5	Kokrajhar (Part)	55.68	44.86	61.26

### 2.7. Farm Family Information:

Sl. No.	Particulars	Sub Division		Chirang district
		Kajalgaon	Bijni	Total
1	<b>SC farm Families</b>	<b>2195</b>	<b>4004</b>	<b>6197</b>
	(a) Landless	742	742	1484
	(b) Marginal	672	1189	1859
	(c) Small	565	1667	2232
	(d) Big	216	406	622
2	<b>ST farm Families</b>	<b>17922</b>	<b>19835</b>	<b>37757</b>
	(e) Landless	3635	2364	5999
	(f) Marginal	7286	5745	13031
	(g) Small	3450	9133	12583
	(h) Big	3551	2593	6144
3	<b>OBC farm Families</b>	<b>4186</b>	<b>7485</b>	<b>11671</b>
	(i) Landless	575	1426	2401
	(j) Marginal	1280	2129	3409
	(k) Small	2421	3299	5720
	(l) Big	500	631	1131
	<b>General farm Families</b>	<b>7013</b>	<b>12904</b>	<b>19917</b>
	(m) Landless	2007	2293	300
	(n) Marginal	1730	4678	6408
	(o) Small	2463	4914	7377
	(p) Big	813	1019	1832

### 2.8 Educational and other infrastructure facilities

Sl.No.	Particulars	Numbers /Values
01	Educational facilities	
a)	Pre-primary	400
b)	Primary	922
c)	Middle	112

d)	High	80
e)	Higher secondary	10
02	Professional colleges	
a)	Medical	-
b)	Engineering	1
c)	Agriculture	-
d)	Veterinary /Fisheries	-
e)	Others (please specify) , Govt.College	1
03	Number of Arts and science colleges	6
04	Institutional credit Facility	
a)	Name of the Lead Bank	State Bank of India
b)	Number of branches of lead bank in the district	4
c)	Other Commercial Banks	18
d)	Primary Land Development Bank	-
e)	District Central Co-operative Banks	-
f)	Urban Banks	-
g)	Primary Agricultural Co-operative credit society	1
05	Agricultural Marketing and Processing	
a)	Number of Permanent Markets/Central Markets	5
b)	Number of weekly markets/Shandies	15
c)	Number of cold storage units for agricultural produce	1
d)	Number of agro based /agro based processing industries	
i)	Small scale	5

Total geo-graphical area	:	108994 Ha
Total cultivable area	:	60239 Ha
Total cultivated area	:	53042 Ha
Cultivable waste	:	2612 Ha
Current fallow	:	4112Ha
Total area under forest	:	9648.71Ha
Total area under pasture	:	6842Ha
Land put on non agricultural use	:	7042Ha
Cropping intensity	:	152.62%

## 2.9 Land use pattern

### 2.10 Area operated according to land holding

Land holding size (ha)	Total No. Of farmers	Total area of holding (Ha)
0-1	46891	20742
1-2	27912	37216
2-4	5021	10711
4-10	3143	15086
above 10	1565	15951
<b>Total</b>	<b>84532</b>	<b>99706</b>



## 2.11 Land utilization statistics

Block	Geographic area	Forest Area	Land Under Non-agril. Use	Cultivable waste	Permanent pastures	Land under miscellaneous tree crops and groves	Current Fallow s	Other Fallow s	Net sown area	Gross cropped area	Cropping intensity (%)
1	2	3	4	5	6	7	8	9	10	11	12
Sidli	53819	8953.71	2595	1263	2025	888	2303	178	20841	30023	144.06
Dangtol (part)	3644	40	91	146	53	89	406	40	1919	2591	135.01
Borobazar	32851	500	3169	881	3535	453	1038	195	20288	31460	155.07
Manikpur (part)	15735	155	982	273	1095	140	322	60	8734	14935	171
Kokrajhar (part)	2945		205	49	134	48	43		1260	1945	154.37
<b>Total</b>	<b>108994</b>	<b>9648.71</b>	<b>7042</b>	<b>2612</b>	<b>6842</b>	<b>1618</b>	<b>4112</b>	<b>473</b>	<b>53042</b>	<b>80954</b>	<b>152.62</b>

## 2.12 Land holding

Block	Marginal Farmers		Small Farmers		Semi-med. Farmers		Landless farmers		Large farmers		Total	
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
Sidli	7660	4192.90	5310	3594.90	2999	7676	438	91	225	2295	17026	22638
Dangtol(part)	202	162	731	1169	384	952	60	12	64	672	1441	2967
Borobazar	7049	3760	7457	9942	1279	2728	5078	1184	1111	2674	21974	20288
Manikpur (part)	4159	1617	4399	4275	893	1183	2996	509	655	1150	13102	8734
Kokrajhar (part)	677	3385	249	317.20	142	426	42	178.3	0	0	1110	1260
<b>Total</b>	<b>19747</b>	<b>13116.9</b>	<b>18146</b>	<b>19298.1</b>	<b>5697</b>	<b>12965</b>	<b>8614</b>	<b>1974.3</b>	<b>2055</b>	<b>6791</b>	<b>54653</b>	<b>55887</b>

### 2.7 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.	Kajalgaon	Sidli	South Kajalgaon, Kasikotra, Hulmagaon No. 1, Saljhora, Baikhungaon, Tangabari, Padmapur, Nimagaon, Kolobari, Banduguri, Sundari, Kashikotra, Hatipota, Dangaigaon, Baikhungaon, Dwkhanagar Tirimari, Basugaon, Runikhata, Dadgiri, Deoshree, Tukrajhar, Mulandubi, , Amlaiguri, North Sukhanipara, Thuribari, South Silkaguri, Sakatiuzanpara, Sakati Bhatipara, Fulguri, Khagrabari, Nalbari, Kachutola, Bhutkura, Nichinapara, Basugaon Turibari, Bhutiapara, Tukrajhar-I, Kanibhur, Salbari, Domgaon, Paschim Hulmagaon-I, Hulmagaon-II, Pub – Domgaon, Choto Nilibari, Maidam Runikhata, Runikhata, Ashrabari, Pub-Ashrabari, Taktara, Ghoramari, Duligaon, Pakhriguri - 2, Gossaigaon, Pakhriguri-1 Amguri –II, Guwabari, Nehalgaon, Kathalpara, Ulubari, Garubhasa No.1, Julioga, Goragaon Salibari, Kahibari, Jaoliabari, Balapara, Lauripara, Garubhasa No.2, Goragaon, Dologaon, Amguri, Athiabari, Bamungaon, Dangshibari, Bairajhora. Shymthaibari, Thuribari, Simlaguri, Hwswarabari, Khakaragaon Mwkwnaguri, Thuribari, Rabhapara, North Rowmari, Palashguri, New Dimapur, Monglagaon, Barigaon, Hasrabari, Banduguri, West Gumargaon, Thalirbari, Deolguri, Sefrnguir, Bangaldoba, New Latima Hatipota, Bhouraguri, Oxiguri, Pretgaon, Purnimabazar, Anandabazar,	Rice, rapeseed & mustard, sesame, black gram, buckwheat, kharif & rabi vegetables, maize, banana etc. are important crops.  Major enterprises included cropping, dairy, backyard poultry, goatery etc	-Soil acidity -Rain fed farming -Low rate of seed replacement - Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Imbalance use of chemical fertilizer -Low productivity of animals	-Acid soil management -Productivity enhancement in major field crops. - Popularization of HYVs - Seed and planting material production --Commercial production of fruits and vegetables. -Adoption of INM and IPM technologies. -Live-stock management -Formation of farm science club
2.	Bijni	Borobazar	Majrabari, Batabari, Pub Khamarpara, Saragaon, Laugaon, Larugaon, Batabari, Agrong pakriguri, Dahlapara, Daisunguri, Khamarpara, Labdanguri, Kishan Bazar Majrabari, Moneswari,	Major crops are rice, lentil, toria, rapeseed & mustard, areca nut, coconut,	-Soil acidity -Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Low rate of	-Management of acid soil -Crop planning for rainfed area. -Commercial production of

			Kochubari, Borgaon, Ulu Bari, Thasobari, Ballamguri, Pub-Makra, Malivita, Janata Bazar, Malivita F.V, Amteka F.V, Dhalpani Forest Block, Simlaguri Forest Block, Dakhingaoon F.V, Bhurbasti FB, Bhur FV, Parbatipur, Gendabil, Koila - Moila, Narayanpur, Napalpara, Parbatjhora, Pub - amguri, No. 1 Mazrabari, Malipara, Pachim Makra, Baripara No.1, Sowari No. 2, Sowari No. 1, Dahalpara No. 2, Dahalpara No.2, Bishnupur No. 3, Bishnupur No. 2, Bishnupur No. 1, Kachubil No. 1, Kachubil No. 2, Thaisobari No. 2, Thaisobari No. 1, Panbari, Betbari No. 1, Betbari No. 2, Purakhola, Silikhaguri, Larugaon No. 1, Larugaon No. 2, Bagargaon, Silikhaguri No. 2, Dewanpara No. 2, Silikhaguri No. 1, Lasatipara, Pub – Khamarpara, Batabari, Doturi, Kawatika -1 Kalobari, Puradia, Silbari, Dangage, Bagakгаа, Dokhona gaon, Larugaon, Kuklung,	banana, vegetables, bamboo etc.  Major enterprises are cropping, fishery, dairy, duckery, goatery, backyard poultry, Mushroom etc.	seed replacement and poor adoption of HYVs -Poor fertility management -Rainfed farming -Un-organized marketing system -Low productivity of animals --Low production of fish per unit of water bodies.	fruits and vegetables. -Increasing productivity of major field crops through improved crop management practices -Popularization of HYVs -Seed and planting material production -Adoption of INM and IPM technologies. -Live-stock management -Adoption of improved fish production technology. - Formation of SHGs and farmer's club
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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)			
	1				2			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	T	A	T	A	T	A	T	A
Agronomy	3	4	9	10	6	5	62	42
Plant protection	4	4	12	12	6	5	151	156
Soil Science	4	3	12	9	3	3	20	20
Horticulture	3	2	9	5	4	4	14	65
Ani. Sci.	3	3	9	9	6	5	22	15
Economics	0	0	0	0	2	2	250	200
<b>Total</b>	<b>17</b>	<b>18</b>	<b>51</b>	<b>45</b>	<b>27</b>	<b>24</b>	<b>519</b>	<b>498</b>

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	T	A	T	A	T	A	T	A
Farmers	26	28	655	709	428	484	8440	6142
Rural youth	15	18	377	46				
Extn. Functionaries	7	5	175	122				
Vocational Training	5	0	125	0				
<b>Total</b>	<b>53</b>	<b>51</b>	<b>1332</b>	<b>877</b>	<b>428</b>	<b>484</b>	<b>8440</b>	<b>6142</b>
Seed Production (ton.)					Planting material (Nos. in lakh)			
5					6			

Target	Achievement	Target	Achievement
670.6	1085.51	0.25	0.132

Note: Target set during last Annual Zonal 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.	Reduction of yield gap in major field crops through introduction of improved varieties and crop management practices	Mustard Sali rice, Buckwheat, Jute, ,Lentil, Toria, Sugarcan e, Sesamum , ,	Yield gap due to poor adoption of HYV and poor knowledge on scientific management practices, poor weed management	1.Performance of new rapeseed variety JT 90-1 (Jeuti) under delayed sowing condition 2.Performance of mid duration Sali rice Variety - CR Dhan 801,CR Dhan-802 3.Performance of Buckwheat variety Sikkim Local 1 & Sikkim Local 2	1. Integrated crop management of Buckwheat in Ricro-Buckwheat sequence 2. Integrated crop management niger in rice – niger sequence 3. Integrated crop management of olitorius jute variety Tarun for fibre 10.Demonstration of submergence tolerant rice variety Ranjit Sub-1 under flood prone condition	1. Improved production technology of Rabi oilseeds 2. Scientific method of cultivation of rabi oilseed crops in rice –toria sequence 3. Scientific methods of cultivation of rabi pulse crops in rice-pulse sequence 4. Scientific method of cultivation of olitorius jute	-	Advisory services, diagnostic s visit, field visit, Field day, Method demonstrations	Seed, fertilizers and other critical inputs
2.	Seed production	Mustard, Toria, Rice	Non availability of quality seed and planting materials	1. Effect of chemicals in controlling pre-harvest sprouting in wheat	2. Foundation seed production of Toria(TS-46,) through PPP mode	1. Seed production of muistard var: NRCHB-1 under ICAR ProJect 2. Seed production technology and scientific cultivation practices of oilseed crops 3. Improved production technology of wheat	1.Certification procedure of different field crops 2. Seed production technology of mustard, Var: NRCHB-1 .	Field Day on Improved production and foundation seed production technology in Toria, Mustard andRice	Seed, chemical fertilizer and pesticides

3.	Integrated pest management /Integrated disease management /Biological Management	Sali rice, Brinjal, Bottle gourd, field pea	Lack of scientific approaches in insect pest and disease management strategies	1. Biological pest management of Sali paddy against leaf folder and Gandhi bug in rice-toria sequence  2. Management of cutworm in field pea 3. Management of bio pesticide for management of soil borne pathogens and insect of Brinjal 4. Management of fruit fly in bottle gourd through pheromone trap	1. Monitoring and management of rice yellow stem borer through pheromone trap in rice-toria sequence 2. Protection of eriworm against insect through mosquito net for better quality and higher production of eri worm 3. Determination of efficacy of non-woven poly propylene 17 GSM bunch bag for controlling fruit scarring beetle in Banana 4. Scientific beekeeping for increasing agricultural productivity and additional income 5. Year round cultivation of Mushroom variety oyster 444	1. Integrated pest management in summer and winter rice. 2. Scientific Beekeeping. 3. Integrated pest and disease management in tomato. 4. Recent advancement in pest and disease management in agriculture. 5. Integrated pest and disease management in winter vegetables		Advisory services, field visits, Diagnostic visit, Field day	Bio pesticides, bee hive, Bunch bag, Pheromone traps (Funnel trap), Mushroom
4.	Varietal introduction	Tomato, Pumpkin,	Crop loss due to high incidence of diseases in tomato, low yield of local variety	1. Performance of multiple disease resistant tomato varieties in farmers field	Popularization of pumpkin in farmers field, Cultivation of watermelon in sand and silt deposited areas	-	1. Scientific cultivation of winter vegetables 2. Crop diversification in sand silt deposited areas	Advisory services, diagnostic visit, field visit, Field day,	Seed, fertilizers and other critical inputs
5.	Commercial production and management of horticultural crops	Assam lemon, black pepper, pineapple, banana, arecanut	Non utilization of interspaces, poor knowledge on scientific crop cultivation	-	1. Scientific cultivation of banana 2. Arecanut based intercropping	-	1. Multiple cropping system and traditional bari system 2. Scientific cultivation of banana and assam lemon	Advisory services, diagnostic visit, field visit, Field day,	Planting material fertilizers and other critical inputs
6	Nutrient management	Banana	Low productivity due to imbalanced and untimely use of fertilizers	1. Stage wise nutrient management in banana var. Malbhog	-	-	Scientific crop management practices in major fruit crops of assam	Advisory services, diagnostic visit, field visit, Field day,	Rhizomes, fertilizers and other critical inputs

7	Soil health and nutrient management	Sali paddy, Toria, Knolkhol, Blackgram	Improper management of soil due to imbalanced chemical fertilizer use, poor knowledge on nutrients and resource use efficiency and poor fertilizer management .	1.Cultivation of Knolkhol by using organic sources of nutrient 2. Root – dipping in SSP-MC slurry method of P management of rice in rice – toria sequence 3.Performance of biofertilizer in kharif blackgram in blackgram – okra sequence 4. Cultivation of Knolkhol by using organic sources of nutrient	1. Application of zinc and boron on rice-rapeseed sequence  2. Integrated nutrient management in toria	1. Role of biofertilizer and its application in different field and horticultural crops  2. Soil testing procedures and its importance in crop production. 3.Soil and water conservation practices 4. Nutrient management in fruits and vegetables	Production technology of biofertilizer and its utilization in farmers field to sustain soil health.	Diagnostic visit and Advisory Services and field day.	Seed & fertilizer
8	Soil microbes (beneficial)	Vermi compost	Improper use of biowaste	-	1. Production of vermicompost in low cost vermicompost unit	1.Production technology of biofertilizer (Azolla, Vermicompost and Enriched compost)	-	Advisory services and method demonstrations and field day	Bamboo based earthen mud plastered low cost vermi compost unit & earth worm species <i>Eisenia foetida</i>
9	Scientific livestock management	Poultry, Duck, Rabbit, Pig, Goat,	Low productivity of indigenous birds and animals,	1. Productive performance of HD-K 75 breed of pig under semi-intensive management condition 2. Productive performance of Daothigir chicken under backyard system. 3.Performance of Black Bengal Goat under low cost raised platform system of housing.	1. Rearing of Broiler duck for economic upliftment of tribal women in Chirang district. 2. Productive performance of broiler rabbit under backyard (Newzealand White/Soviet ) 3. Rearing of dual purpose Kadaknath chicken for livelihood security  4. . Quail farming for additional income generation  5. Rearing of Turkey bird for lean meat production	1. Scientific pig farming 2. Scientific poultry farming	-	Advisory services, Field visit	100 nos Kadaknath chicks, 9 nos Pigs, 100nos Turkey birds, 100 nos. broiler Ducks, 15 nos Broiler rabbits, 3 nos. Goat shed
10	Scientific mushroom cultivation	Mushroom	Consumption of wild mushroom	-	1. Milky Mushroom cultivation for economic upliftment 2. Oyster Mushroom cultivation for economic upliftment	Year round mushroom cultivation for economic upliftment	-	Practical demonstration, Training, monitoring and field day	Mushroom spawn, plastic bag







### A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Crop ping 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)
<b>Agronomy</b>									
1	Performance of new rapeseed variety JT 90-1 (Jeuti) under delayed sowing condition	Low yield of existing varieties under late sown condition	<u>Treatments</u> T <sub>1</sub> : Variety JT 90-1 T <sub>2</sub> : Variety TS 67 (control)	Toria	3	T <sub>1</sub> : Plant ht-64 cm Branch/pl-7 Siliqua/pl-94 Seed/siliqua-19 Yield- 8.8 q/ha <u>T<sub>2</sub> (check):</u> Plant ht-58 cm Branch/pl-7 Siliqua/pl-83 Seed/siliqua-17 Yield- 8.2 q/ha	Farmers liked the variety JT 90-1 due to its high yield under late sown condition	Suitable for delayed sown condition	T <sub>1</sub> -2.67 T <sub>2</sub> -2.60
2	Performance of medium duration Sali rice variety CR Dhan 801 and CR Dhan 802	Low productivity existing medium duration Sali rice varieties	<u>Treatments</u> T <sub>1</sub> : Variety CR Dhan 801 T <sub>2</sub> : Variety CR Dhan 802 T <sub>3</sub> : Variety Shraboni (control)	Rice	2	<u>T<sub>1</sub></u> : Plant ht-96.5 cm Eff tiller/m <sup>2</sup> -311 Test wt-20.4 gm Yield-45.6 q/ha <u>T<sub>2</sub></u> : Plant ht-96 cm Eff tiller/m <sup>2</sup> -307 Test wt-20.1 gm Yield-45.0 q/ha <u>T<sub>3</sub>checkj</u> : Plant ht-105 cm Eff tiller/m <sup>2</sup> -300 Test wt-21.0 gm <sup>2</sup> Yield-43.8 q/ha	Farmers satisfied with the performance of the tested varieties	Suitable for cultivation under double cropping situation	T <sub>1</sub> : 2.19 T <sub>2</sub> : 2.16 T <sub>3</sub> : 2.11
3	Performance of buckwheat varieties Sikkim Local and Gossaigaon Local in rice-buckwheat sequence	Low productivity of existing varieties	<u>Treatments</u> T <sub>1</sub> : Variety Sikkim Local 1 T <sub>2</sub> : Variety Sikkim Local 2 T <sub>3</sub> : Gossaingaon Local (control)	Buckwheat	2	T <sub>1</sub> : Plant ht-54 cm Branch/pl- 9 Yield-12.8 q/ha T <sub>2</sub> : Plant ht-53 cm Branch/pl- 8 Yield-12.3 q/ha T <sub>3</sub> : Plant ht-41 cm	Farmers preferred both the tested varieties due to their significantly high yield over the check	Can be popularized through FLD	T <sub>1</sub> : 2.49 T <sub>2</sub> : 2.39 T <sub>3</sub> : 1.85

						Branch/pl-4 Yield- 9.5 q/ha			
4	Effect of chemicals in controlling pre-harvest sprouting in wheat	Pre-harvest sprouting due to pre-monsoon shower	<u>Treatments</u> T <sub>1</sub> : Spraying of 7.5% NaCl at milking and maturity stage T <sub>2</sub> : Spraying of 150 ppm Na-Molybdate at milking and maturity stage T <sub>3</sub> : Control (No chemical spraying)	Wheat	3	T <sub>1</sub> : Plant ht-73.2 cm Length of spikelet- 14.2 cm Yield-16.7 q/ha T <sub>2</sub> : Plant ht-73.2 cm Length of spikelet- 14 cm Yield-16.7 q/ha T <sub>3</sub> : Plant ht-73.2 cm Length of spikelet- 14.2 cm Yield-16.7 q/ha (No pre monsoon rain occurred at maturity stage)		Pre monsoon shower did not occur. So effect of chemical spraying could not be ascertained.	1.67
<b>Plant Protection</b>									
5	Biological pest management of Sali paddy against leaf folder and Gandhi bug in rice-toria sequence	Yield loss due to Gundhi bug and leaf folder	<u>Treatments</u> T1: (i) Spray of bioneem 0.15 EC @ 3ml/lit of water at 10 days after transplanting followed by second spray at 20 days after transplanting T2: (ii) Spray beauveria bassiana @ 7gm/L at boot leaf stage to reduce gundhi bug T2: Control	Rice	3	No of leaf rolled leaves/sq /m T <sub>1</sub> : Initial: 3.00 i)After 1 <sup>st</sup> spray :2.0 ii) After 2nd spray :0.25 (%)reduction over control : 3.22 No of population of gundhi bug/sqm : Initial:8 i)After 1 <sup>st</sup> spray :5 ii) After 2nd spray :2 Grain damage(%) :5.22 Yield:46.99 q/ha T <sub>2</sub> (check): T <sub>1</sub> : Initial: 3.67 i)After 1 <sup>st</sup> spray :5.33 ii) After 2nd spray :7 (%)reduction over control : 10	Farmers liked the bioneem and <i>beauveria bassiana</i> 0.15 EC and due to less effect of environment and low cost	The technology is more effective than chemical measure and environment eco friendly	T1-2.27 T2-2.07

						No of population of gundhi bug/sqm : Initial:8 i)After 1 <sup>st</sup> spray :10 ii) After 2nd spray :14 Grain damage(%) :16.55 Yield:29.00 q/ha			
6	Management of cutworm in field pea	Sever attack of cut worm in field pea	<u>Treatments</u> T1: Mulching with rice straw just after of sowing T2: Control	Field pea	3	T1: Plant height:54.61cm Days to flower: 70 No. of seeds /pod:6.00 No. of pod/plant:26.00 Infection :3.70% Yield (q/ha): 17.0  T2: Plant height: 52.29 cm Days to flower: 67 No. of seeds /pod:5.53 No. of pod/plant:23.36 Infection : 6.2% Yield (q/ha):13.5	Farmers found the technology suitable.	The technology is suitable and feasible for farmers with positive effect.	T1: 2.71 T2: 1.48
7	Management of bio pesticide for management of soil borne pathogens and insect of Brinjal	Poor yield due to soil borne pathogen	T <sub>1</sub> :Seed treatment with liquid consortia@5ml/kg + seed bed treatment (5ml/kg) 3days before before seed sowing + seedling dip treatment with consortia of bio fertilizer + spray of liquid bio pesticides @ 3ml/L of water 15,30,45 & 60 DAT T <sub>2</sub> : Control	Brinjal	3	T <sub>1</sub> :Disease & pest incidence Root rot(%): 4 Bacterial wilt(%):11 Fusarium wilt (%):2 Cut worm (%):4.32 Yield- 203q/ha T <sub>2</sub> : Disease & pest incidence Root rot(%): 11 Bacterial wilt(%):29	Farmers found best suitable and effective bio pesticide against soil borne diseases of soil	Availability of bio pesticide is a problem in this locality which must be made available for large scale availability	T <sub>1</sub> :4.51 T <sub>2</sub> : 3.91

						Fusarium wilt (%):9 Cut worm (%): 13 Yield- 176.02 q/ha			
8	Management of fruit fly in bottle gourd through pheromone trap	Poor quality yield of Bottle gourd due to fruit fly infestation	<b>T1:</b> Installation of pheromone trap @ 30 nos/ha starting from 15 days after sowing <b>T2:</b> Control	Bottle Gourd	3	<b>T<sub>1</sub>:</b> Fruit infestation of fruit flies(%):12.33 Yield-190 q/ha <b>T<sub>2</sub>:</b> Fruit infestation of fruit flies(%):28.67 Yield-168 q/ha	Farmers found the technology effective and suitable	The use of Pheromone trap can reduced the fruit fly attack on bottle gourd	T <sub>1</sub> :4.75 T <sub>2</sub> : 4.20
<b>Soil Science</b>									
9	Root –dipping in SSP-MC slurry method of P management of rice in rice – toria sequence	Low availability of P due to high acidity	<b>T<sub>1</sub>:</b> A mud slurry with 7 kg SSP + 500 ml Microbial consortia + 5 kg compost +50 % RD of urea and MOP and rock phosphate @123 kg/ha <b>T<sub>2</sub>:</b> Control( recommended dose of NPK)	Rice	3	Plant height(cm): T1: 101 cm T2: 99 cm Panicle length=12 cm T1:12 cm T2: 11.6 cm Effective tillers / plant T1:10 T2: 8 Grains /panicle= T1: 109 T2: 102 Yield(q/ha): In rice, T1:42.00 T2:40.50	Farmers found effective in grain production by Root –dipping in SSP-MC slurry.	Use of balanced chemical fertilizers alongwith root –dipping in SSP-MC slurry. in Sali enhance the grain yield and crop growth as compared to application of recommended dose of N,P2O5,K2O fertilizers alone .	In rice, T1: 1.80 T2:1.95
10	Performance of biofertilizer in kharif blackgram in blackgram – okra sequence	High use of chemical fertilizer	<b>T<sub>1</sub>:</b> Seed inoculation with Rhizobium and PSB each 50g/kg seed <b>T<sub>2</sub>:</b> Control( Farmers practice)	Blackgram	3	Yield (q/ha): T1: 9 T2: 7.5 Plant height T1 :30.5 T2 :28.5 Pods per plant T1: 14 T2: 12 Seed/ pod T1: 8	Farmers found both the bio fertilizers suitable in enhancing yield	The technology is more effective than chemical measure and environment friendly.	T1: 2.35 T2. 2.05

						T2: 7			
11	Cultivation of Knolkhol by using organic sources of nutrient	High use of chemical fertilizer	T <sub>1</sub> : Azotobacter and PSB @ 7.5g each per 100g of seeds. Vermicompost @5 t/ha + Rock Phosphate @375kg/ha T <sub>2</sub> : Control( recommended dose of NPK	Knolkhol	3	Yield (q/ha): T1: 75.00 T2: 78.00 Average head weight T1 : 190 g T2 : 192 g	Farmers found both the bio fertilizers suitable in enhancing yield	The technology is more effective than chemical measure and environment friendly.	T1:3.6 T2: 3.0
<b>Horticulture</b>									
12	Performance of multiple disease resistant tomato varieties in farmers field	Crop loss due to high incidence of diseases in tomato	T1: Arka Abhed T2: Arka Rakshak T3: Farmers practice (Trishul)	Tomato	3	Plant height (cm): T1: 104.33 T2: 92.67 T3: 72.67 Avg. Fruit no/plant(no): T1: 57.2 T2: 54.0 T3: 45.2 Avg. Fruit weight (g): T1: 90.6 T2: 84.5 T3: 60.8 Yield (t/ha): T1: 94.39 T2: 77.01 T3: 41.53	From market point of view, farmers found both the varieties profitable for high yield as compared to other local varieties they have grown earlier and less incidence of diseases. Interested to go for more coverage of area	Incidence of Leaf curl disease and bacterial wilt were observed in Arka Rakshak though they are said to have resistance against these. Arka Abhed have good potential both from yield and disease resistance.	T1: 5.92 T2: 4.78 T3: 3.26
13	Stage wise Nutrient Management in banana var. Malbhog	Low productivity due to imbalanced and untimely use of fertilizers	T1: N-60% of RDF at 5 months after planting ,20% of RDF at shooting, 20% of RDF at last hand opening stage P- Whole at 3 months planting K- 40%of RDF at shooting &60% at last hand opening T2: Farmers practice	Banana	2	Ongoing			
<b>Animal Science</b>									
14	Productive performance of	Low	T <sub>1</sub> : HD-K 75 breed of big under intensive management.	Pig	3	Results:			

	HD-K 75 breed of pig under semi-intensive managerial condition.	productivity of indigenous pig	<b>T2:</b> Farmers practice: indigenous breed			Parameters	HD-K 75 Pig	Indigenous Pig
						Age at puberty	170 days	210days
						Avg. weight at 5 <sup>th</sup> month of age	38 kgs	25kgs
						Avg. litter size at birth	Gilts are on Gestation. Not yet farrowed	
						Avg litter weight of piglets at birth	Results yet to come	
						Farmers found the breed suitable Can be recommended for further rearing Ongoing		
15	Productive performance of Daothigir chicken under backyard system	Low productivity of local chicken.	T1: Daothigir birds as meat purpose breed  T2: Farmers practice- rearing of local chicken	Chicken	3	Results		
						Parameters	Daothigir Chicken	Local chicken
						Mortality rate during brooding	Nil	5-10% under natural brooding
						Age at first lay	155 days	160 days
						Avg weight of egg at one month of lay	42g	37g
						Avg body weight at first lay	1.63kg	1.40kg
						Farmes prefer the breed both for meat production These birds are reared by bodo tribes in Assam under backyard or free-range rearing system. The birds are needed to popularize as they are registrant to most of the poultry diseases and mortality rate during brooding is nil. Ongoing		

16	Performance of Black Bengal Goat under low cost raised platform system of housing.	More incidence of diseases and lower production under traditional housing management	<b>T1:</b> Low cost raised platform system of housing. <b>T2:</b> Farmers practice: night shelter on soiled floor housing system.	Goat	3	Parasitic ova count after periodic deworming: Nil, Mortality due to respiratory tract infection: Nil	Farmers find more output from the farms in terms of kids survivability in case of raised platform type housing	Needs to aware conventional goat farmers for this type of housing.	Ongoing
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\*Field crops – ton/ha, \* for horticultural crops -= kg/t/ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermicompost kg/unit area.

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

### 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 2019-20 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	Toria	Foundation seed production of Toria ( TS-46) in rice – toria sequence	8	65	30ha
2	Buckwheat	Integrated crop management of Buckwheat	1	6	2 ha
3	Buckwheat	Integrated crop management of buckwheat under PKVY	1	20	10ha
4	Toria	Integrated crop management of toria under TSP	3	92	20 ha
5	Banana	Integrated pest management of banana	4	70	20 ha
6	Water melon	Cultivation of water melon in sand and silt deposited areas of Aie river valley	8	25	7ha
7	Banana	Scientific cultivation of banana	2	32	10 ha
8	Lentil	Technology demonstration under Cluster FLD lentil, Var: Maitree	5	115	50 ha
9	Vermicompost	Production of vermicompost in low cost vermicompost unit	6	25	25 units
10	Toria	Cluster demonstration of toria	20	92	500 ha
11	Pea	Cluster demonstration of pea under cluster FLD	5	50	10 ha
12	Sali paddy	Technology demonstration under technology showcasing of Sali paddy	25	272	72 ha
13	Blackgram	Cluster demonstration of blackgram under cluster FLD	4	72	20 ha
14	Sesamum	Technology demonstrated under CFLD	3	48	30 ha
15	Mustard	Integrated crop management of mustard, Var: NRCHB-101	10	62	26 ha
16	Livestock	Performance of improved poultry birds,ducks,pigs under backyard condition under TSP	7	1000	3000 Nos.
17	Honeybee	Scientific bee keeping	4	15	15 units

18	jute	Integrated crop management of Jute var: Tarun	1	7	2 ha
19	Mushroom	Scientific mushroom cultivation	5	500	50 units

\* *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
<b>Agronomy</b>														
1	Rice	Varietal performance	Demonstration of submergence tolerant rice variety Ranjit Sub-1 under flood prone condition	Kharif, 2019	10	10	14	3	17	NA	Rainfed, medium land	385	26.58	138.5
2	Toria	Seed production	Foundation seed production of rapeseed through PPP mode in rice toria sequence	Rabi, 2019	2	2	-	4	4	NA	Rainfed, medium land	372	25.42	135
3	Niger	ICM	Integrated crop management of niger in rice-niger sequence	Rabi, 2019	2	2	6	-	6	NA	Rainfed, Upland	350	21.20	140.5
4	Buckwheat	ICM	Integrated crop management of buckwheat in rice-buckwheat sequence	Rabi, 2019	2	2	8	-	8	NA	Rainfed, upland	421	22.03	148
5	Jute	ICM	Integrated crop management of olitorious jute variety Tarun for fibre production	Kharif, 2019	2	2	-	7	7		Rainfed, medium land	385	20.17	145
<b>Plant Protection</b>														
6	Rice	Biological management	Monitoring and management of rice yellow stem borer through pheromone trap in rice-toria sequence	Kharif, 2019	3	3	6	3	9	NA	Rainfed	426	20.09	121
7	Banana	Biological management	Determination of efficacy of non-woven poly propylene 17 GSM bunch bag for controlling fruit scarring beetle in Banana	Kharif, Rabi 2019	1	1	3	0	3	NA	Rainfed	426	20.09	121
<b>Soil Science</b>														
8	Rice, Rapeseed	Soil management	Application of zinc and boron on rice-rapeseed sequence	Kharif 2019-20	3	3	3	2	5	NA	Rainfed	385	25.09	144
9	Rapeseed	Nutrient management	Integrated Nutrient management in Toria in rice toria sequence	Rabi 2019-20	2	2	3	2	5	NA	Rainfed	352	24.09	148



ent														
Horticulture														
10	Pumpkin	Varietal evaluation	Popularization of pumpkin <i>var.</i> Arjuna in farmers field	Rabi 2019-20	0.13	0.0 65	0	3	3	NA	Rainfed	220	15.67	138
11	Water melon	ICM	Cultivation of watermelon in sand and silt deposited areas	Rabi 2019-20	0.13	0.13	0	3	3	NA	Rain fed	287.5	25.58	133
12	Banana	ICM	Scientific banana cultivation	Rabi 2019-20	0.13	0.13	1	1	2	NA	Rain fed	298	23.00	141
13	Arecanut, Black pepper, Assam lemon, Pineapple	Intercropping	Intercropping in areca nut based cropping system	Kharif 2019-20	0.13	0.13	1	2	2	NA	Rainfed	220	15.67	138

### 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
Agronomy																		
1	Rice	Varietal performance	10	55.7	41.8	33.25	57.5	52.2	Pl ht-94.6 cm Eff. Tiller/ hill-18	Pl ht-110.4 cm Eff. Tiller/ hill-13	29500	69625	40125	2.36	28000	52250	24250	1.87
2	Toria	Seed production	2	8.4	6.8	23.53	8.8	7.5	Pl ht-55 cm Branch/pl-6 Siliqua/pl-105 Seed/siliqua-10	Pl ht-64 cm Branch/pl-3 Siliqua/pl-79 Seed/siliqua-10	18500	46200	27700	2.50	17500	37400	19900	2.14
3	Niger	ICM	2	6.6	5.2	26.92	7.1	4.8	pl ht- 52 cm, Branch/pl-3	pl ht- 57 cm, Branch/pl-3	15500	33000	17500	2.13	14500	26000	11500	1.79
4	Buckwheat	ICM	2	10.8	8.0	35	12.2	8.1	plant ht- 42 cm, branch/ pl-5	plant ht- 46 cm, branch/ pl-3	18500	54000	35500	2.92	17500	40000	22500	2.29
5	Jute	ICM	2	34.6	27.0	28.15	36.2	23.9	pl ht- 170 cm, basal stick diameter- 1.6 cm	pl ht- 162 cm, basal stick diameter- 1.2 cm	54000	138400	84400	2.56	51500	108000	56500	2.10
Plant Protection																		

6	Rice	Biological Management	3	56.0	45.0	24%	62.5	42.5	Avg. nos of insect trapped at vegetative stage: 8.3 per trap at 7 days interval Avg. nos of insect trapped at reproductive stage: 7.4 per trap at 7 days interval Dead heart incidence (%):3.2 % White ear head incidence (%):5.0%	Dead heart incidence (%):5.6 % White ear head incidence (%):6.2%	30000	70000	40000	2.3	29000	56250	27250	1.93
7	Banana	Biological Management	1	353.5	347.5	1.73%	380.5	320.0	Shooting to harvest interval (days): 89.15, Hands per bunch: 13.67, Fingers per bunch (Nos.) :169.9 Bunch Weight (Kg): 14.48, Scarring intensity (%):1	Shooting to harvest interval (days): 80.05, Hands per bunch: 11.17 Fingers per bunch: 161.3 (Nos.) :169.9, Bunch Weight (Kg): 12.98, Scarring intensity (%):6.86	50000	282000	232000	5.7	37000	188480	151480	5.00

## Soil Science

8	Rice, Rapeseed	Soil management	3	43.5	40.8	7.35%	46.0	40.0	Pl ht-102cm Panicle length=12 cm Effective tillers / plant =11Grains /panicle=110	Pl ht -98 cm Panicle length =10.5 cm Effective tillers / plant= 10, Grains /panicle =108	32000	63750	31750	1.99	30000	58200	28200	1.94
				8	7.0	14.28%	12.5	9.8	Pl ht-77 cm, brnch/ pl-8, siliqua/ pl-101, seed/ siliqua- 10	Pl ht-73 cm, brnch/ pl-7, siliqua/ pl-90, seed/ siliqua- 10	19000	44000	25000	2.3	18000	38500	20500	2.13

9	Rapeseed	Nutrient management	2	8.5	7.0	21.43%	12	9.0	Pl ht-73 cm, brnch/ pl-6, siliqua/ pl-98, seed/ siliqua- 10	Pl ht-71cm, brnch/ pl-5, siliqua/ pl- 85, seed/ siliqua- 10	19000	46750	27750	2.46	18000	38500	20500	2.13	
<b>Horticulture</b>																			
10	Pumpkin	Varietal evaluation	0.065	197.6	109.4	80.6%	262.0	154.8	Fr/p=5 Fr/wt=2.6kg	Fr/p=4 Fr/wt=1.8 kg	54650	296400	241750	5.42	45600	118560	184350	3.60	
11	Water melon	ICM	0.13	412.0	322.0	28%	526.2	354.0	Fr/p=6 Fr/wt=4.3kg	Fr/p=4 Fr/wt=3.1kg	120000	412000	292000	3.43	110000	350000	250000	3.18	
12	Banana	ICM	0.13									ongoing							
13	Areca nut, Black pepper, Assam lemon, Pineapple	Intercropping	0.13									ongoing							

\*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	10	05/11/19,31/12/19 09/01/20, 05/02/20, 09/02/20, 25/02/20, 27/02/20, 06/03/20, 18/3/20, 19/03/20	231	284	515	
2	Farmers Training	5	05/11/19, 05/02/20, 25/02/20, 27/02/20, 18/03/20	90	55	145	
3	Media coverage (Cluster FLD on pulse and lentil)	-	-	-	-	-	
4	Training for extension functionaries	-	-	-	-	-	
5	Any other (Pl. specify)	-	-	-	-	-	
	Total	15		321	339	660	

## e. Details of FLD on Enterprises

(i) Farm Implements: NIL

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

\* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			Remarks		
							Demo	Check		Demo	Check	GC**	GR*	NR**	BCR*	GC	GR	NR	BCR		
1	Broiler Duck	Breed introduction	Rearing of Broiler duck for economic upliftment of tribal women in Chirang district. Technology: White Pekin	3	3	100														Benefit cost ratio at market age: 1.98	
2	Broiler Rabbit	Breed introduction	Broiler Rabbit farming for livelihood security among tribal farmers. Technology: Newzealand White/ Soviet Chinchilla as quality broiler rabbit	3	3	15														Av. Litter size at birth 5 nos, Av. Litter weight 280g, FCR: 4.7	
3	Chicken	Breed improvement	Rearing of dual purpose Kadaknath chicken for livelihood security. Technology: Kadaknath chicken	3	3	100														Ongoing	
4	Quail	Breed improvement	Quail farming for additional income generation. Technology: CARI-Pearl, egg type	3	3	250														Egg production 1 <sup>st</sup> 6 month: 120 eggs, C:B ration for 6 month egg production: 1:8	

5	Turkey	Breed improvement	Rearing of Turkey bird for lean meat production.. Technology: Spanish Black	3	3	100	Body weight at distribution: 55g, Mortality during brooding: 5% Body weight at maturity for male 5.8kg and female: 4.5 kg Age at first lay 220days Av weight of egg: 52g FCR: 2.6	Ongoing Turkeys get popularity among farmers. Needs to expand the turkey farming for lean meat production.
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**\*\* 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 :Nil**

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	Vermicompost	Beneficial microbes	Production of vermin compost in low cost vermin compost unit	10	10	900 kg/tank/yr	-	-	-	-	3000	9000	6000	3.0	-	-	-	-	

2	Honey bee	Beneficial insect	Scientific beekeeping for increasing agricultural productivity	5	5	Avg. honey production from Nov 2018 to March 2019=10.0kg/b eehive	-	6% increase in toria production	-	-	3000	9000	6000	3.0	-	-	-	-	very effective additional income for land less farmers
3	Oyster Mushroom	Mushroom production in rabi	Mushroom production with improved technology	100	10	4kg/bag	2kg/bag	100			100	400	300	4.0	80	200	120	2.2	Coordination/Convergence/Linkages promoted/created
	Milky Mushroom	Mushroom production in pre rabi	Mushroom production with improved technology	100	10	3kg/bag	2kg/bag	50			100	300	200	3.0	80	200	120	2.2	Coordination/Convergence/Linkages promoted/created
4	Oyster Mushroom	Coordination/Convergence/Linkages promoted/created	Year round Mushroom cultivation for rural youths	100	3	2.18 kg/cylinder	1.65 kg/cylinder	53%			100	300	200	3.0	80	200	120	2.2	More farmers are interested -
5	Eri Worm	Integrated pest management	Protection of eriworm against insect through mosquito net for better quality and higher production of eri worm			Cocoon yield per 100 larvae(%)=99.90 insect	Cocoon yield per 100 larvae(%)=60.12	66%	Larval duration: 23 days Larval weight: 4.64 gm cocoon weight :2.63 gm Cocoon yield per 100 larvae(%)=89.12 insect infestation(%)=5-6	Larval duration: 32 days Larval weight: 2.34 gm cocoon weight :1.03 gm Cocoon yield per 100 larvae(%)=60.12 insect infestation(%)=18-32	11000	80000	69000	7.3	10000	48000	38000	4.8	

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

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

## (v) Farm Implements and Machinery: Nil

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

## f. Performance of FLD on Crop Hybrids:

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

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

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

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

## g. Performance of cluster demonstration on Oilseed and Pulses crops

Sl. No.	Crop	Thematic area	Number of farmers	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
					<b>Oilseed</b>														
1	Toria	Double Cropping	157	131.0	8.5	6.5	30%	10.0	5.5	Siliqua/pl= 123 Ht/pl= 132cm Br/pl= 8	Siliqua/pl =98.5 Ht/pl= 100.5 cm Br/pl= 5	21000	51000	30000	2.42	19000	39000	20000	2.05
2	Sesamum	Double Cropping	48	20.0	8.12	5.22	55%	8.5	7.8	Plant Height 1.65 meter Branch per	Plant Height 1.50 meter	19300	48540	29240	2.51	16300	32280	15980	1.98

										plant =6 Capsule per plant =35	Branch per plant =4 Capsule per plant =30									
<b>Pulse</b>																				
3	Lentil	Double Cropping	36	10.0	8.0	6.2	29%	12.5	7.8.00	Br/pl=6 Ht/pl= 25.5 cm	Br/pl=4 Ht/pl= 23.0 cm	20500	60000	39500	2.93	19000	46500	27500	2.40	
4	Pea	Double Cropping	83	20.0	13.6	8.2	65.9%	15.6	11.8	Plant height:53.7 3cm Days to flower: 70 No. of seeds /pod:8 No. of pod/plant:2 6.67	Plant height: 51.29 cm Days to flower: 67 No. of seeds /pod:5.53 No. of pod/plant: 22.33	32000	102000	74500	3.19	28200	61500	33300	2.18	
5	Blackgram	Double cropping	54	20.0	8.2	6.4	28%	9.5	5.10	Br/pl=12 Ht/pl= 70 cm NO.of pod=42 seed/pod=8	Br/pl=7 Ht/pl= 50 cm NO.of pod=28 seed/pod= 15	22500	53300	30800	2.38	20000	41600	21600	2.08	

### i. Performance of Tribal Sub Plan Programme (TSP)

Sl. No.	Crop	Thematic area	Number of farmers	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	Duck (Chara Chembeli)	Scientific management	7	200 nos.															
2	poultry	Scientific management	6	120 nos.															
3	Goat	Scientific management	6	23 nos															
	Jute	ICM	26	15 ha	ongoing														
4	Toria	Rice fallow	53	20.0	9.0	6.5	39%	10.5	6.0	Siliqua/pl	Siliqua/pl=98.5	21000	58500	37000	2.78	19000	42250	23250	2.22































IPR issues																							
<b>XI Agro-forestry</b>																							
Production technologies																							
Nursery management																							
Integrated Farming Systems																							
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>16</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>26</b>	

**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	S p O ff *	Total	General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
				Of f	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *		
<b>I. Crop Production</b>																							
Weed Management																							
Resource Conservation Technologies	1	0	1	6	0	5	0	11	0	9	0	5	0	14	0	15	0	10	0	25	0	25	
Cropping Systems	1	0	1	9	0	1	0	10	0	12	0	3	0	15	0	21	0	4	0	25	0	25	
Crop Diversification																							
Integrated Farming																							
Water management	1	0	1	8	0	2	0	10	0	11	0	4	0	15	0	19	0	6	0	25	0	25	







Management of potted plants																							
Export potential of ornamental plants																							
Propagation techniques of Ornamental Plants																							
<b>d) Plantation crops</b>																							
Production and Management technology																							
Processing and value addition																							
<b>e) Tuber crops</b>																							
Production and Management technology																							
Processing and value addition																							
<b>f) Spices</b>																							
Production and Management technology	2	0	2	14	0	8	0	22	0	18	0	10	0	28	0	32	0	18	0	50	0	50	







Rural Crafts																						
Women and child care																						
<b>VI Agril. Engineering</b>																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
<b>VII Plant Protection</b>																						
Integrated Pest	3	0	3	40	0	5	0	45	0	27	0	3	0	30	0	67	0	8	0	75	0	75



























implements																							
WTO and IPR issues																							
Management in farm animals																							
Livestock feed and fodder production																							
Household food security																							
Women and Child care																							
Low cost and nutrient efficient diet designing																							
Production and use of organic inputs	1	0	1	19	0	0	0	19	0	6	0	0	0	6	0	25	0	0	0	25	0	25	
Gender mainstreaming through SHGs																							
<b>Total</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>51</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>67</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>70</b>	<b>0</b>	<b>70</b>	



Capacity building for ICT application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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 programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
<b>Farmer &amp; Farm women</b>															
<b>TOTAL</b>															
<b>Rural Youth</b>															
Horticulture	Crop production	Crop diversification in sand and silt deposited areas and their production technology	10/09/19-12/09/19	3	KVK, Chirang	RY	7	3	10	10	5	15	17	8	25
Horticulture	Crop production	Scientific cultivation of ginger and turmeric	19/02/2020 - 21/02/2020	2	KVK, Chirang	RY	15	0	15	10	0	10	25	0	25
Horticulture	Crop production	Scientific cultivation of ginger and turmeric	06/11/19-08/11/19	2	KVK, Chirang	RY	18	0	18	7	0	7	25	0	25
Agricultural Economics	Group dynamics	Formation and management	04/11/19-05/11/19	2	KVK Chirang	RY	6	0	6	10	11	21	16	11	27
<b>TOTAL</b>							<b>46</b>	<b>3</b>	<b>49</b>	<b>37</b>	<b>16</b>	<b>53</b>	<b>83</b>	<b>19</b>	<b>102</b>
<b>EF and NGO Personnel</b>															
Agronomy	Rain water harvesting	Rain water harvesting and its use in agriculture and household	16/05/2019	1	KVK, Chirang	EF	13	2	15	4	1	5	17	3	20
Soil science	Organic farming	Production technology of biofertilizer and its utilization in farmers field to sustain soil health	12/02/20	1	KVK Chirang	EF	10	3	13	7	5	12	17	8	25
Agri economics	Marketing	Market led extension information	12/02/20-13/02/20	2	KVK Chirang	EF	19	0	19	6	0	6	25	0	25
<b>TOTAL</b>							<b>42</b>	<b>5</b>	<b>47</b>	<b>17</b>	<b>6</b>	<b>23</b>	<b>59</b>	<b>11</b>	<b>70</b>

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

Discipline	Area of training	Title of the training programme	Date (From – To)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
<b>Farmer and Farm Women</b>															
Agronomy	Integrated crop management	Improved production technology of wheat crop in rice wheat sequence	4/11/2019 – 5/11/2019	2	Majrabari	Farmer & Farm women	7	3	10	11	4	15	18	7	25
Agronomy	Integrated crop management	Improved production technology of <i>rabi</i> oilseed crop	30/10/2019 – 31/10/2019	2	Larugaon	Farmer & Farm women	8	2	10	9	6	15	17	8	25
Agronomy	Resource Conservation Technologies	Resource conservation and sustainable cropping practices	22/1/2020 – 23/1/2020	2	Bengtal	Farmer & Farm women	6	5	11	9	5	4	15	10	25
Agronomy	Cropping system	Cropping practices for marginal and dry land situation	30/10/2019 – 1/10/2020	2	Panbari	Farmer & Farm women	9	1	10	12	3	15	21	4	25
Agronomy	Water management	Increasing irrigation efficiency for <i>rabi</i> crops	7/1/2020 – 8/1/2020	2	Amteka	Farmer & Farm women	8	2	10	11	4	15	19	6	25
Agronomy	Contingency planning	Contingency planning for flood affected areas	9/8/2019 – 10/8/2019	2	Bhawraguri	Farmer & Farm women	7	3	10	11	4	15	18	7	25
Horticulture	Protected cultivation	Plasticulture applications in horticultural crops	01/08/19-03/08/19	3	Lakhijhora	Farmer & Farm women	10	5	15	7	3	10	17	8	25
Horticulture	Crop production	Scientific management of multi-storeyed cropping system	30/09/19-01/10/19	2	Birhangaon	Farmer & Farm women	21	0	21	5	0	5	26	0	26
Horticulture	Protected cultivation	Plasticulture applications in horticultural crops	20/01/12020-21/01/2020	2	Bishnupur	Farmer & Farm women	10	2	12	7	6	13	17	8	25
Horticulture	Crop production	Crop diversification in sand and silt deposited areas and their production technology	5/03/12020-7/03/2020	2	Kadamtala	Farmer & Farm women	15	0	15	10	0	10	25	0	25
Plant Protection	IPM	Integrated pest management in kharif rice	06/08/19 - 08/08/19	3	Pakhajani	Farmer & Farm women	15	0	15	10	0	10	25	0	25
Plant Protection	IPM	Biological control of rice insect pests and diseases	14/10/19 to 15/10/19	2	1 No. Saragaon	Farmer & Farm women	15	0	15	10	0	10	25	0	25

Plant Protection	IDM	Integrated disease management in winter vegetables	25/10/19 to 13/10/19	5	Lakhipur	Farmer & Farm women	2	0	2	16	7	23	18	7	25
Plant Protection	IPM	Recent advancement in pest and diseases in agriculture	22/11/19 to 23/11/19	2	Taktara	Farmer & Farm women	10	5	15	7	3	10	17	8	25
Plant Protection	IDM	Integrated management methods of late blight disease in potato	07.01.19 to 19.01.18	2	Dakhin Makra	Farmer & Farm women	4	1	5	18	3	21	22	4	26
Soil Science	Organic farming	Role of Bio fertilizer and its application in different field and horticultural crops	26/06/19-28/06/19	3	Tengabari	Farmer & Farm women	12	2	14	9	2	11	21	4	25
Soil Science	Soil testing	Soil testing and its importance in crop production	22/08/19, 23/08/19, 26/08/19	3	Bishnupur	Farmer & Farm women	10	0	10	15	0	15	25	0	25
Soil Science	Soil and water conservation	Soil and water conservation practices in dry land farming	17/09/19-19/09/19	3	Runikhata	Farmer & Farm women	8	3	11	10	4	14	18	7	25
Soil Science	INM	Nutrient management in fruits and vegetable	19/10/19, 18/10/19, 23/10/19	3	Bamun gaon	Farmer & Farm women	10	2	12	7	6	13	17	8	25
Soil Science	Organic farming	Production of organic inputs for organic farming	08/11/19, 16/11/19	2	No. 1 Bouljhar	Farmer & Farm women	18	0	18	7	0	7	25	0	25
Animal Science	Poultry management	Scientific rearing of improved backyard poultry	27-28.10.19	2	Bengtol	Farmer & Farm women	0	25	25	0	0	0	20	5	25
Animal Science	Disease management	Disease of livestock and poultry, their prevention and control measure	18-19.01.20	2	Burijhar	Farmer & Farm women	8	0	8	12	5	17	20	5	25
Animal Science	Dairy management	Fertility management in Dairy cows	12-13.02.20	2	Salbari	Farmer & Farm women	12	13	25	0	0	0	12	13	25
Animal Science	IFS	Integrated Farming System	20-21.03.20	2	Shymthaibari	Farmer & Farm women	0	31	31	0	0	0	0	31	31
Agricultural Economics	Marketing	Marketing of agricultural products	18/09/19-19/09/19	2	Tangabari	Farmer & Farm women	13	12	25	0	0	0	13	12	25
Agricultural Economics	Marketing	Marketing of agricultural products	30/09/19, 03/10/19	2	Bhutiapara	Farmer & Farm women	21	2	23	2	0	2	23	2	25
Agricultural Economics	Marketing	Marketing of agricultural products	14/10/19, 19/10/19	2	Kanibhur	Farmer & Farm women	1	7	8	3	15	18	4	22	26
Agricultural Economics	Mushroom	Mushroom cultivation for economic upliftment	02/11/19, 22/11/19	2	Runikhata	Farmer & Farm women	6	6	12	1	12	13	7	18	25
<b>Total</b>							<b>266</b>	<b>132</b>	<b>398</b>	<b>219</b>	<b>92</b>	<b>301</b>	<b>505</b>	<b>204</b>	<b>709</b>
<b>Rural Youth</b>															
Agronomy	Integrated crop management	Improved production technology of <i>Kharif</i> pulse crop	6/9/2019 – 7/9/2019	2	Rowmari	RY	9	4	13	9	6	12	15	10	25

Agronomy	Integrated crop management	Potato cultivation through TPS	2/12/2019 – 3/12/2019	2	Pretgaon	RY	10	3	13	8	4	12	18	7	25
Horticulture	Planting material generation	Propagation and cultivation of major commercial flowers plasticulture	26/12/19-27/12/19	2	Nepalpara	Rural youth	10	5	15	7	3	10	17	8	25
Plant Protection	Mushroom	Oyster Mushroom cultivation	28/1/2020-1/2/2020	5	Bhalatol	Rural youth	11	6	17	4	5	9	15	11	26
Plant Protection	Honey bee	Scientific beekeeping for economic upliftment	5/10/2019-7/10/2019	3	Santipara	Rural youth	21	4	25	0	0	0	21	4	25
Soil Science	Soil testing	Soil testing and its importance in crop production	14/01/20, 20/01/20	2	Moujabari	Rural youth	13	0	13	12	0	12	25	0	25
Soil Science	Soil and water conservation	Soil and water conservation practices in dry land farming	01/12/19, 12/12/19	2	Basugaon	Rural youth	9	2	11	7	7	14	16	9	25
Soil Science	Organic farming	Production of organic inputs for organic farming	11/03/20-12/03/20	2	Pub Makra	Rural youth	10	5	15	7	3	10	17	8	25
Soil Science	INM	Nutrient management in fruits and vegetable	17/02/20-18/02/20	2	Saragaon	Rural youth	20	0	20	5	0	5	25	0	25
Animal Science	Animal Science	Dairy management	Feeding management of dairy animals	5	Tukrajhar	Rural youth	21	4	25	0	0	0	21	4	25
Agricultural Economics	Group dynamics	Formation and management of SHG	30/10/19-31/10/19	2	Malandubi	Rural youth	0	0	0	3	23	26	3	23	26
Agricultural Economics	Mushroom	Oyster mushroom cultivation	1/11/19-20/11/19	2	Bengtal	Rural youth	6	2	8	8	10	18	14	12	26
Agricultural Economics	Mushroom	Oyster mushroom cultivation	07/01/20-02/01/20	2	Saragaon	Rural youth	18	8	26	0	0	0	18	8	26
Agricultural Economics	Group dynamics	Formation and management of SHG	04/02/20-05/02/20	2	Batabari	Rural youth	15	10	25	0	0	0	15	10	25
<b>TOTAL</b>							<b>173</b>	<b>53</b>	<b>226</b>	<b>70</b>	<b>61</b>	<b>128</b>	<b>240</b>	<b>114</b>	<b>354</b>
<b>EP and NGO Personnel</b>															
Agricultural Economics	Marketing	Market led extension and information to farmers	06/12/20-07/12/20	2	Hasbari	Extension functionary	1	25	26	0	0	0	1	25	26
Agricultural Economics	Marketng	Market led extension and information to farmers	23/12/19-24/12/19	2	Debargaon	Extension functionary	18	8	26	0	0	0	18	8	26
<b>TOTAL</b>							<b>19</b>	<b>33</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>33</b>	<b>52</b>





**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	ICM,INM,IPM,Bee keeping, animal rearing, seed production, marketing, vermin-composting, soil testing, entrepreneurship development, Grafting and budding, nursery raising etc.		281	70	32	102	129	40	169	10	0	10	209	72	281
2	Diagnostic visit	Nursery management	05/06/19,10/7/19,13/08/19,18/08/19, 20/09/19, 25/10/19	34	20	25	45	14	13	27	6	2	8	40	40	80
		Stem borer in rice, Gandhi bug attack	20/08/19,5/09/19,10/09/19, 19/10/19, 20/10/19, 27/10/19		21	7	28	35	15	50	6	2	8	62	24	86
		Parasitic disease in animals	11/04/18,15/04/19, 14/6/19, 20/7/19		8	0	8	12	9	21	3	0	3	23	7	30
		Infertility in dairy cows	09/05/19, 19/10/19, 17/12/19		6	4	10	13	9	22	4	0	4	23	13	36
		Brown spot and blast of rice	20/11/19, 25/11/19		1	0	1	5	0	5	4	1	5	10	1	11
		Nutrient deficiency in banana and tomato, immature fruit drop in coconut, mealy bug in papaya	11/12/19,20/12/19, 04/01/20, 20/01/20,		6	0	6	5	3	8	4	1	5	15	4	19
		YMV disease in Blackgram	05/10/19, 11/10/19		5	0	5	6	1	7	3	2	5	14	3	7
		FMD in cattle, piggery	25/01/20, 11/02/20		4	0	4	5	0	5	1	0	1	10	0	10
		Aphid attack in toria	18/12/19,05/01/20, 17/01/20		5	1	6	6	5	11	4	2	6	15	8	23
		Aphid infestation in sesamum , collar rot disease in sesamum	10/11/19, 18/11/19		2	0	2	7	0	7	2	0	2	11	0	11
<b>Sub total</b>					<b>78</b>	<b>37</b>	<b>115</b>	<b>108</b>	<b>55</b>	<b>163</b>	<b>37</b>	<b>10</b>	<b>47</b>	<b>223</b>	<b>100</b>	<b>313</b>
3	Field day	Mushroom cultivation, Varietal performance of	05/11/19,31/12/19 09/01/20, 05/02/20,	10	170	61	231	210	74	284	15	5	20	395	140	535

		Sali rice, Toria cultivation, Sesamum cultivation, Pea cultivation, Cultivation of watermelon, cultivation of lentil, cultivation of pea and linseed, cultivation of sesamum	09/02/20, 25/02/20, 27/02/20, 06/03/20, 18/3/20, 19/03/20													
4	Group Discussion	Formation of SHG, formation of Farmers club, formation of Joint liability group, Discussion on doubling income, PRA	10/04/19,16/08/19 22/11/19, 07/01/19	4	20	07	27	15	8	23	4	1	5	39	16	55
5	Kishan Gosthi			0	0	0	0	0	0	0	0	0	0	0	0	0
6	Kishan Mela	Kishan Mela at KVK Chirang	25/02/20	1	250	120	370	310	140	450	70	35	105	630	295	925
7	Film show	Vermicomposting, Mushroom cultivation, Piggery, Bee keeping, poultry farming,	05/06/19,26/06/19, 22/09/19,16/10/19, 25/02/20,26/02/20	6	100	50	150	110	80	190	15	5	20	225	135	360
8	SHG formation	Mithinga SHG, Phungbili SHG, Aie valley SHG, Hatipota Women SHG, Nomalpur women SHG, Bornali SHG,	15/11/19, 22/11/19, 22/12/19,06/01/20, 21/01/20, 07/02/20,	6	20	15	35	10	20	30	3	1	4	33	36	69
9	Exhibition	BTAD Krishi Mela, Barama, Kishan Mela, Kahikuchi,	07/01/20, 08/01/20, 09/01/20 ,26/02/20	2	70	15	85	65	7	72	5	0	5	140	22	162
10	Scientists visit to farmers fields	Field visit under FLD/OFT/Training/Other extension activities	-	60	13	5	18	20	15	35	6	1	7	39	21	60
11	Plant/Animal Health camp			0	0	0	0	0	0	0	0	0	0	0	0	0
12	Farm science club			0	0	0	0	0	0	0	0	0	0	0	0	0
13	Ex-trainee Sammelan			0	0	0	0	0	0	0	0	0	0	0	0	0
14	Farmers	Scientific cultivation of	24.02.20 to	2	40	20	60	30	25	45	8	2	10	78	47	125



	articles	local news paper														
22	Radio talk			0	0	0	0	0	0	0	0	0	0	0	0	0
23	TV talk			0	0	0	0	0	0	0	0	0	0	0	0	0
24	Training manual			0	0	0	0	0	0	0	0	0	0	0	0	0
25	Soil health camp			0	0	0	0	0	0	0	0	0	0	0	0	0
26	Awareness camp	Environment awareness camp, Awareness camp on bee keeping ,	05/06/19, 11/11/19,	2	50	20	70	70	30	100	10	2	2	130	52	182
27	Lecture delivered as resource person	Vermicomposting, bee keeping, Marketing of Agricultural Produce, Oyster Mushroom Cultivation, Button Mushroom production, Protected cultivation, Composite fish culture, Scientific coconut cultivation Organic cultivation, Quail farming, Pig farming, seed production	23/04/19, 25/04/19 27/04/19,28/04/19 20/05/19, 20/06/19 06/07/19, 08/07/19 10/07/19,24/02/20, 24/02/20, 25/02/20, 26/02/20, 03/03/20, 04/03/20/05/03/20,	16	125	40	165	70	30	100	6	2	8	201	72	273
28	PRA	Bhutiapara, Tilakgaon, Lakhipur, Malandubi	03/10/19, 30/10/19, 01/11/19, 27/11/19	8	25	27	52	25	37	62	4	0	4	54	64	118
29	Farmer-Scientist interaction	Traditional water harvesting, Scientific coconut cultivation technology, value addition, Composite fish culture	21/12/19, 24/02/20, 25/02/20, 26/02/20, 03/03/20	5	150	40	190	130	70	200	20	4	24	300	114	414
30	Soil test campaign			0	0	0	0	0	0	0	0	0	0	0	0	0
31	Mahila Mandal Convener meet			0	0	0	0	0	0	0	0	0	0	0	0	0
32	Any other (Please specify)			0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grand Total</b>				<b>484</b>	<b>1970</b>	<b>767</b>	<b>2737</b>	<b>2064</b>	<b>929</b>	<b>2983</b>	<b>316</b>	<b>88</b>	<b>394</b>	<b>4360</b>	<b>1782</b>	<b>6142</b>

### 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		
					General	SC/ST	Total
CEREALS	Sali Rice	Ranjit Sub-1	3860.0	75,28,000.00	122	180	302
OILSEEDS	Sesamum	ST-1683	256.6	25,66,000.00	25	40	65
	Toria	TS-46, TS-36,	595.0	4,16,500.00	110	74	184
	Niger	NG-1	8.5	40,000.00	15	12	27
	Mustard	NRCHB-101	350.0	24,96,000.00	20	38	58
PULSES	Lentil	HUL 57	105.00	8,40,000.00	36	42	78
	Pea	V-10	210.00	10,50,000.00	50	35	85
	Blackgram	PU-31, IPU-2-43	240.0	14,40,000.00	71	48	119
VEGETABLES	Potato	Kufri Jyoti	3230.00	64,60,000.00	35	40	75
FLOWER CROPS	-	-	-	-	-	-	-
OTHERS (Specify)	Buckwheat	local	200.00	10,00000.00	38	24	62

#### 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	386.00	75,28,000.00	122	180	302
2	OILSEEDS	121.01	55,18,500.00	170	164	334
3	PULSES	55.5	3330000.00	157	125	282
4	VEGETABLES	323.00	64,60,000.00	35	40	75
5	FLOWER CROPS	0	0	0	0	0
6	OTHERS	200.00	10,00000.00	38	24	62
<b>TOTAL</b>		<b>1,085.51</b>	<b>23,83,6500.00</b>	<b>522</b>	<b>533</b>	<b>1055</b>

**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
Fruits	Pineapple	Kew	0.05	50000.00	1	0	1
Spices	Black pepper	Paniyur-1	0.005	7500.00	3	2	5
Ornamental plants	Chrysanthemum	-	0.001	500.00	1	1	2
	Gerbera	Red gem	0.001	200.00	2	0	2
VEGETABLES	Tomato	BNT-1217F <sub>1</sub>	0.020	4000.00	5	5	10
	Cabbage	BC-76	0.010	2000.00	2	3	5
	Knolkhol	Hybrid	0.020	4000.00	5	8	13
	Chilli	Yashaswini	0.003	600.00	3	2	5
	Brinjal	BNT-516	0.017	3400.00	4	4	8
	Cauliflower	Giriraj	0.005	1000.00	1	0	1
Forest Spp.	-	-	-	-	-	-	
Plantation crops	-	-	-	-	-	-	
Medicinal plants	-	-	-	-	-	-	
OTHERS (Pl. Specify)	-	-	-	-	-	-	

**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	0.05	50000.00	1	0	1
2	Spices	0.005	7500.00	3	2	5
3	Ornamental Plants	0.002	700.00	3	1	4
4	VEGETABLES	0.075	15000.00	20	22	42
5	Forest Spp.	-	-	-	-	-
6	OTHERS (Specify)	-	-	-	-	-
<b>TOTAL</b>		<b>0.132</b>	<b>73,200.00</b>	<b>27</b>	<b>25</b>	<b>52</b>

**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
<b>BIOAGENTS</b>	-	-	-	-	-	-	-	-
<b>BIOFERTILIZERS</b>	-	-	-	-	-	-	-	-
1	Vermicompost	<i>Eisenia foetida</i>	-	5.0	5000	2	1	3
2	Azolla	<i>Azolla caroliniana</i>	-	4.0	4000	-	-	-
<b>BIO PESTICIDES</b>	-	-	-	-	-	-	-	-

**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	Vermicompost ( <i>Eisenia foetida</i> )	-	500	5000	2	1	3
		<i>Azolla (Azolla caroliniana)</i>	-	400	4000	-	-	-
3	BIO PESTICIDE	-	-	-	-	-	-	-
	<b>TOTAL</b>	-	-	<b>900</b>	<b>9000</b>	<b>2</b>	<b>1</b>	<b>3</b>

**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	Beagle, local	6	-	30000	-	-	-
3	Piggery	-	-	-	-	-	-	-
5	Poultry	Local, Karaknath, Turkey, Duck, Quail	95	-	17000	-	-	-
6	Fisheries	-	-	-	-	-	-	-
7	Others (Specify)	-	-	-	-	-	-	-

**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	-	6	-	30000	-	-	-
3	POULTRY	-	95	-	17000	-	-	-
4.	PIGGERY	-	-	-	-	-	-	-
5	FISHERIES	-	-	-	-	-	-	-
6	OTHERS (Pl. specify)	-	-	-	-	-	-	-
	<b>TOTAL</b>	-	<b>51</b>	-	<b>63000</b>	-	-	-

**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.)KVK Chirang News letter (Yearly, since 2011)

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers	<b>Title:</b> Income and employment generation of rural women farmers of Chirang district through mushroom cultivation <b>Journal:</b> National conference on women empowerment through entrepreneurship and skill development, SCSCA College, Rongamati, Dhubri	Dr. H K Baruah, K Das, R B Kayastha, M kalita, M Bhagawati, J Talukdar, PK Dutta, S Talukdar, JK Sarma	1
	<b>Title:</b> Year round mushroom cultivation cultivation shows the way for livelihood security of tribal women farmers of Chirang district of Assam <b>Journal:</b> National conference on women empowerment through entrepreneurship and skill development, SCSCA College, Rongamati, Dhubri	K Das &HK Baruah	
	<b>Title:</b> Participation of tribal women in small scale piggery farming for poverty reduction in the Chirang district of Assam: A Case Study <b>Journal:</b> National conference on women empowerment through entrepreneurship and skill development, SCSCA College, Rongamati, Dhubri	Kayastha, R.B.; Das, K.; Baruah, H.K.; Kalita, M.; Bhagawati, M.; Dutta, P. and Talukdar, J.	1



	<p><b>Title:</b> Women empowerment for enhancing livelihood opportunities through vermicompost production</p> <p><b>Journal:</b> National conference on women empowerment through entrepreneurship and skill development, SCSCA College, Rongamati, Dhubri</p>	Dutta P. K., Das K., Baruah H. K., Kalita M. K., Kayatha R. B., Bhagawati M., Talukdar J., Sarma J., Talukdar S	1
	<p><b>Title:</b> Income enhancement and employment generation through apiculture enterprise for rural women in Chirang district of Assam</p> <p><b>Journal:</b> National conference on women empowerment through entrepreneurship and skill development, SCSCA College, Rongamati, Dhubri</p>		1
Training manuals			
Technical Report			
Book/ Book Chapter			
Popular articles			-
Technical bulletins			
Extension bulletins	Kathfula Kheti (Mushroom) Aru iyar labhalabh	Dr. Hiranya Kr. Baruah, Juri Talukdar, Dr. Kameswar Das	500
	Gahori Powalir Dayeriya aru Iyar Protikar	Dr. Rajib Bhandar Kayastha, Dr. Hiranya Kr. Baruah, Juri Talukdar, Mandakini Bhagawati, Dr. Kameswar Das	500
	Amitar Pradhan Rogxomuh aru niyontron byabostha	Juri Talukdar, Mandakini Bhagawati, Dr. Kameswar Das	500
	Tilkheta aru iyar pora krishoko rorthonoitik labhalabh	Dr. Hiranya Kr. Baruah, Jyotish Kr. Sarma, , Dr. Kameswar Das	500
	Joibik Podhotir dara parthenium bon niyontron	Juri Talukdar, Dr. Rajib Bhandar Kayastha, Dr. Kameswar Das	500
Newsletter	Newsletter	Dr. Kameswar Das and other Scientific staff of KVK, Chirang	100
Conference/ workshop proceedings			

Leaflets/folders			
e-publications			
Any other (Magazine)	ABAD	Dr. Kameswar Das and other Scientific staff of KVK, Chirang	200
<b>TOTAL</b>			

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

### I Details of Electronic Media Produced

Sl. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	-	-	-

#### 1.7. Success stories on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes with suitable action photographs)

##### 1. Mr. Sumanta Narzary- A successful Piggery farmer

Mr. Sumanta Narzary is a young educated progressive pig farmer with the initial 4 nos of desi pigs with the target of piglet production. His father having of the area with 4ha of agricultural land, 0.4ha of seasonal pond, 0.4ha bamboo plantation, 0.26ha beetle nut plantation besides a small piggery unit of local pigs and small nos of desi chickens. Whole family depends on the single crop rice and some earnings from sale of piglets, chickens, bamboos, beetle nuts and own produced summer and winter vegetables. The maximum family income never goes beyond rupees 1.50,000 per annum. In spite of his maximum involvement in pig rearing, he could not generate any subsidiary income from the pigs due to mainly problems like high cost of production, small piglet size, low bodyweight gain and mortality. He came in contact with scientists of Krishi Vigyan Kendra, Chirang during a training programme at village Dangshibari. He interacted with the scientists and discussed about his problems. After watching his interest in pig rearing, scientists from KVK visited his area and imparted technical guidance on housing, health management and advised him to go for improved breeds. With the technical guidance from KVK, he started pig rearing scientifically. KVK, Chirang, provided time to time trainings and conducted demonstration under STC project on scientific pig rearing practices like rearing of crossbred pigs, deworming, vaccination, feed management, supplementation of vitamins and minerals. Critical inputs like Roofing materials for construction of scientific housing, supply of 6 nos (1 male + 5 Females) improved crossbred Hampshire piglets as breeder unit, vaccination against swine fever and circovirus diseases, medicinal support were provided from the project. Timely deworming, vaccination and routine checkup



lowered down the mortality and morbidity rate thereby increasing the growth and body weight of the piglets. Now, he usually sells the crossbred piglets at the rate of Rs.4000 instead of earlier Rs 2000 from the sale of desi piglets. His net annual income now comes to Rs.80,000, only from the sale of piglets where as cost of rearing the pigs is only Rs. 30,000. Now-a-days he used to cultivate maize immediately after rice harvest as maize is the main constituent of pig feed. From his earning, he brought one feed grinder for own feed formulation. Mr. Sumanta Narzary has become a well recognized commercial pig grower of the district. Now, he is developing and strengthening linkages with the small and traditional pig farmers of the area for taking up breed improvement and organized marketing. He got the best progressive farmer award at district level on the occasion of Independence Day celebration. His success has inspired other unemployed educated youth of his village and they also joined the same venture for their sustainability.

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Rice	Erection of "Tara paat" branches in the rice field	To control case worm attack
2	Rice	Beating the upper half of standing rice crop with thorny branches of trees	Controlling leaf folder
3	Rice	Use of perches in the paddy field so that predatory birds sit on it and can trap insect pests.	Control insect pests.
4	Rice	Erection of "Germani bon" branches in the rice field	To control case worm attack
5	Rice	Erection of damaged video film in the rice field at the time maturity	To repel birds feeding rice seed
6	Rice	Broadcasting of outer rind of citrus fruit in the standing water of paddy field to control case worm.	Control case worm
7	Rice	Use of dead frog and crab in the paddy field to repel Gandhi bug.	Repel Gandhi bug
8	Rice	Spraying of fresh cow dung solution in paddy crop to control bacterial leaf blight.	Control bacterial leaf blight.
9	Rice	Application of kerosene oil in standing water of paddy field to control case worm	Control case worm infestation.
10	Seed preservation	Use of neem leaves for controlling storage pests.	Controlling storage pests.
11	Vegetable crops	Spraying of solution of one part of cattle urine and six part of water in vegetable crops to protect against insect pests.	Protect against insect pests.
12.	Rice	Erection of polythene packets in bamboo poles at 3-4 feet distances to repel rodent pests	Rodent pest of cereals
13.	Rice	Application cut pieces of rabab tenga in the field	Reduces leech population
14.	Storage rice	Application of naphthalene balls over the storage bin	Reduces different storage insect pest

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

- **Identification of courses for farmers/farm women**
  - a. PRA
  - b. Group Discussion
  - c. Zonal Review Meeting
  - d. Farmers – Scientists’ interaction
  - e. ZREAC meeting
  - f. Farm and home visit
  - g. Problem tree analysis
  - h. SWOT analysis
- **Rural Youth**
  - a. PRA
  - b. Group Discussion
  - c. Zonal Review Meeting
  - d. Farmers – Scientists’ interaction
  - e. ZREAC meeting
  - f. Farm and home visit
  - g. Problem tree analysis
  - h. SWOT analysis
- **Extension personnel**
  - a. Zonal Review Meeting
  - b. ZREAC meeting

### 3.11 Field activities

- i. Number of villages adopted : 6
- ii. No. of farm families selected : 320
- iii. No. of survey/PRA conducted :4

### Activities of Soil and Water Testing

Status of establishment of Lab : Established

1. Year of establishment : 2017

2. List of equipments purchased with amount : nil

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	-				
2	-				
<b>Total</b>					

3. Details of samples analyzed (2019-20) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount ( In Rupees) realized
Soil Samples	300	300	30	NIL
Water Samples	0	0	0	0
Plant Samples	0	0	0	0
Petiole Samples	0	0	0	0
<b>Total</b>	<b>300</b>	<b>300</b>	<b>30</b>	<b>NIL</b>

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

- No. of SHCs prepared : 300
- No. of farmers to whom SHCs were distributed : 300
- Name of the Major and Minor nutrients analysed : N, P, K, B, Zn, Fe, S
- No. of villages covered : 30
- 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	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	42	116191	10	16950	5	65690	2	350	5	21005	5	18650	69	238836
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>42</b>	<b>116191</b>	<b>10</b>	<b>16950</b>	<b>5</b>	<b>65690</b>	<b>2</b>	<b>350</b>	<b>5</b>	<b>21005</b>	<b>5</b>	<b>18650</b>	<b>69</b>	<b>238836</b>

### 3.14 Contingency planning for 2019-20

#### a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Flood and drought	Introduction of new variety or crop	13.000 ha (6000ha flood affected, 7000ha drought affected)	270	680	700
Flood and drought	Introduction of Resource Conservation Technologies	Training programme on Resource Conservation Technologies	230	350	580
Flood and drought	Distribution of seeds and planting materials	Rice seedlings, pulse and oilseed crops	650	700	1350
Flood and drought	Any other (Please specify)	Training programmes on alternate activities after flood/drought like mushroom cultivation	200	300	500

#### 23. 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
Flood and drought	500 birds, 200 piglets	3	2	700	80	120	200

## 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)
Commercial cultivation of Banana, Var. Malbhog through 'corm' as planting material along with recommended doses of fertilizer, treatment of planting material and all plant protection measures	370	40	55,000.00/ha	100,500.00/ha
Scientific method of potato cultivation	215	55	57,000.00/ha	10,000.00/ha
Introduction of HYV of <i>Sali</i> rice var. Ranjit Sub-1, TTB-404, Shraboni etc.with modern cultivation technology viz. time of sowing & transplanting,	550	55	21,600.00/ha	50,200.00/ha

seed treatment, fertility management, water management and plant protection measures				
Introduction of HYV of Boro rice var. Joymoti and Kanaklata with modern cultivation technology viz. time of sowing & transplanting, seed treatment, fertility management, water management and plant protection measures	120	25	28,000.00/ha	38,500.00/ha
Seed production technique in <i>Sali</i> rice (Variety: Ranjit Sub-1, TTB-404)	135	40	27,000.00/ha	82,000.00/ha
Improved production technology of lentil	600	35	11,000.00/ha	15,200.00/ha
Rearing of improved breed of poultry	200	20	-	-
Seed production technique in toria (Variety: TS-36, 38, 46, 67, 29)	450	71	32,000.00/ha	45,000.00/ha
Seed production technique in lentil (Var. PL 406, Maitree)	270	40	25,500.00 / has	48750.00/ha
Rearing of WhitePekin duck	120	40	-	-
Pig Rearing	1500	50	-	-

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

**Cases of large scale adoption** (*Please furnish detailed information for each case*)

1. Since 2009-10, KVK, Chirang has been exploring cultivation technology in silt deposited areas of Bongaigaon district, especially in Aie river bank with potential crop water melon. The crop was cultivated in the several pockets with no to slight scientific intervention. But with continuous efforts of KVK, Chirang famers came to know about the high yielding varieties along with scientific crop management and pest management techniques. Thus farmers were able to earn a ransom every year and now have trying for other cucurbitaceous vegetable like pumpkin, bitter gourd, snake gourd, maize and even Bengal gram. Thus Chowraguri area of Aie river bank has been demarcated as water melon growing hot spot in the locality.
2. Summer rice has been cultivated in limited areas of the district that too, with some unknown, intruded varieties without following proper method of cultivation. KVK, Chirang has been consistently trying to popularize HYVs of summer rice 'Jaymoti' and 'Kanaklata' and their scientific production technology in the district for last five years through on farm testing, front line demonstration and training programme. Because of its continuous effort in this direction, there has been gradual increase in area (Approx. 130.0 ha) under these two HYVs of summer rice and also increase in crop yield (60.0 q/ha). Moreover, with the development of irrigation facility, many farmers have come forward to cultivate summer rice in some new areas also. Further, because of the continuous effort made by KVK, Chirang to popularize SRI technology in summer rice, about 60.0 ha in Kokila village and 10.0 ha in Kayethpara village under Bongaigaon district have been put under summer rice cultivation with system of rice intensification.
3. Quality seed plays an important role in increasing the crop yield; however, seed replacement rate in the district is very low which may be attributed to ignorance of farmers on seed production technology. KVK, Chirang has been working hard to popularize seed production technology in rice in the farmer's field through training programme, front line demonstration programme, advisory services etc. since inception. About 140.0 ha area was brought under seed production programme of kharif rice (var. Ranjit) and which produced 3000.0 q quality certified seed during kharif, 2012, inspite of damage by flood in 40.0 ha area. During 2012-13, seed

production in summer rice was extended to Nowapara part I, Bongaigaon, Assam with summer rice (var. Kanaklata & Joymoti) cultivation in about 34.0 ha area for the first time.

- 3 *Kharif* rice is the most important crop of the district which occupies more than 70% of the total rice growing areas. Adoption of improved production technology of *Kharif* rice in the farmers' field is not yet satisfactory and KVK, Chirang is trying hard to popularize improved technology through various activities like training, front line demonstration, on farm testing, advisory service etc. Because of the sincere effort, farmers have started adopting improved production technology of Sali rice especially in respect of quality seed, fertility management and pest management. At present HYV of *Kharif* rice is cultivated more than 40% of rice growing areas of the district. Considering the high yield potential of HYVs of Sali rice, it is expected that more farmers will come forward to adopt these varieties in near future.
- 4 Potato is an important vegetable crop of the district and necessary technologies required for obtaining higher yield has been initiated by the scientists of KVK, Chirang. Many farmers have adopted scientific cultivation practices of potato after receiving necessary helps and guidance from the scientists of KVK, Chirang and could harvest higher crop yield. KVK, Chirang has been demonstrating irrigation management technology in potato since 2007-08 which has become a popular technology among the potato growing farmers of KVK operational areas.

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Foundation seed production of Mustard under PPP mode	2	30%	44000.00/ha	68750.00/ha
Cluster demonstration of toria, Mustard variety-TS 46, NRC HB 101	214	30%	40000.00/ha	60750.00/ha
Technology demonstration under technology showcasing of Sali paddy Var: Ranjit Sub 1	26	25%	35,000.00/ha	55,000.00/ha
Seed production technique in toria Variety: TS-46	8	55%	30,000.00/ha	45,000.00/ha
Technology demonstration under Cluster FLD lentil, Var: HUL 57	36	40%	47125.00 / has	71500.00/ha
Improved cultivation practices in water melon (Var. Sugar Baby)	3	70%	2,66,,060.00/ha	4,80,460.00 /ha
Cluster demonstration of pea under cluster FLD	83	25%	112000/ha	144000.00 /ha
Technology demonstrated under CFLD of <i>Kharif</i> oilseed Sesamum, Var: ST-1683	48	25%	45000.00 /ha	70000.00/ha
Cluster demonstration of Blackgram, Var: PU-31	54	20%	35,000.00/ha	55,000.00/ha



## 5.0. LINKAGES ESTABLISHED

### 5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. Department of Agriculture, Chirang	i) NAEP on Rabi field crops ii) Technology Mission for Horticultural crops iii) Mission Double Cropping iv) Supply of seed for BGREI programme v) PRA for preparation of SREP, Chirang district vi) Technical support for BGREI programme vii) Association KVK scientist as resource person viii) Programme formulation and execution under CSS-ATMA
2. Directorate of Agriculture, BTC, Kokrajhar	i) Preparation of Impact point for BTAD at Bimonthly Zonal Workshop
3. Department of Veterinary, Chirang	i) Association KVK scientist as resource person ii). Collaborative training programme organization
4. DICCC, Chirang	i) Entrepreneurship development through training
5. RSETI, SBI, Kajalgaon	i) Organization of vocational training programmes for self-employment of Rural Youths
6. NABARD	i) Involvement of KVK scientists as resource person in training programmes
7. DRDA	i) Involvement of KVK scientists as resource person in training programmes
8. SIRD, Khanapara	i). Organization of sponsored training programme ii). Association KVK scientist as resource person iii). Carrying out of sponsored action research programme in veterinary
9. Coconut Board, Chirang	i). Organization of sponsored training programme ii). Association KVK scientist as resource person
10. Department of Fishery Science, Chirang	i). Organization of sponsored training programme ii). Association KVK scientist as resource person
11. Petroleum Conservation Research Agency, Ghy.	i). Organization of sponsored training programme ii). Association KVK scientist as resource person iii) Conducting workshop

12.KASS and NASS	i) Organization of training programmes ii) Technology demonstration cum seed production of Maize,
13. NGO 'SeSTA'	i) Upliftment of rural community through programmes planning, identification of beneficiaries and execution of training, demonstration and awareness programmes ii) Attending the Annual Meeting
14.Friends of Coconut	i) Organizing Training programme ii) Act as resource person iii) Extension support
15. Anjali SHG	i) Organizing training and demonstration programmes for economic upliftment of SHGs ii)FLD Programme on oilseed and pulse crop
16. Rosy SHG	
17. Bornali SHG	
18. Fungbeli SHG	
19. Wildlife Trust of India	i). Collaborative training to the extension functionaries
20. PPVFR Authority	i). Collaborative awareness cum training programme on PPV&FR Act 2001
20. SSB, Banduguri, Chirang	Collaborative awareness cum training programme.
21. Indo Global Social Service Society	Collaborative HRD programme
22. Bongaigaon Gana Seva Society	Delivered lecture as resource person.
23. Luthern World Service India Trust	Delivered lecture as resource person in awareness programme on Scientific cultivation of field crops.
24. Livelihood Mission Trust	Collaborative interection of KVK for livelihood generating activity
25. Jagaran NGO	Delivered lecture as resource person.
26. Ramdhenu Social Development NGO	Delivered lecture as resource person.

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

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

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology Showcasing	Seed production	June, 2019	AAU	99014.00
Cluster demonstration on pulse	FLD	August, 2019, Oct, 2019	ICAR	180000.00
Cluster demonstration on oilseed	FLD	July, 2019, Oct, 19	ICAR	139480.00

TSP_OB	ICM of field crops, ICM of horticultural crops, Piggery, poultry and Goatery management	March, 2019, October, 19	AAU	853172.00
STC (Bari development)	Bari Development	2018	AAU	96775.00
PKVY	organic cultivation, seed production etc.	2019-2020	ICAR	330000.00
NEH Component	Oilseed production, vegetable production	2019-20	ICAR	100000.00
RKVY-Mustard	Mustard production	2019-20	ICAR	161700.00
PCRA	Awareness programme petroleum conservation	03.0120 TO 04.01.20	PCRA, Ministry of Petroleum and Natural Gas	16600.00
TSP_ICAR-AINP on VPN	Farmers Fair	2019-20	ICAR	200000.00
ICAR- Seed project	Mustard seed production	October, 19	ICAR-ATARI VI	35000.00
Bamboo Nursery Development	Bamboo Nursery development	2019-20	AAU	295500.00
CMSGUY	Fishery training	2019-20	Govt of Assam	435500.00

### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.	Programme Planning	Expert opinion as a member of Governing Body	
2.	Training Programmes	KVK scientists act as Resource Persons in the training programmes organized under ATMA	
3.	Farm School	KVK scientists act as Resource Persons	
4.	Farmers – Scientists interaction	KVK scientists act as Resource Persons	

### 5.4 Give details of programmes implemented under National Horticultural Mission: No

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
1	Workshop on Composite fish culture	KVK scientists act as Resource Persons in the programmes	

## 5.6 Nature of linkage with Coconut Development Board: Yes

S. No.	Programme	Nature of linkage	Remarks
1	Workshop on Scientific Coconut cultivation technology and value addition	KVK scientists act as Resource Persons in the programmes	

**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. (q.)	Cost of inputs	Gross income	
<b>Cereals</b>									
Rice									
Wheat									
Maize									
Any other									
<b>Pulses</b>									
Green gram									
Black gram	27.08.19	02.12.19	0.13	PU-31	Seed	0.4	670.00	4000.0	YMV disease
Arhar									
Lentil									
Ay other									
<b>Oilseeds</b>									
Mustard	03.11.19	25.01.20	0.13	NRCHB-101	Seed	0.8	720.00	4800.00	

Soy bean									
Groundnut									
Sesamum	25.07.19	12.11.19	1.0	ST-1683	Seed	3.0	3054.00	36000.00	yield loss due to water logging in standing crop
Niger	08.11.19	23.02.20	2.0	NG-1	Seed	0.50 q	5500.00	5000.00	Drought during flowering
Any other									
<b>Fibers</b>									
i.									
ii.									
<b>Spices &amp; Plantation crops</b>									
Black pepper	02.04.16			Paniyur-1	cutting	100 nos.	260.00	1500.00	
i.									
<b>Floriculture</b>									
Gerbera	14.08.19			Red gem	cutting	100nos.	100.00	500.00	
Chrysanthemum	18.07.19				cutting	100 nos.	100.00	500.00	
<b>Fruits</b>									
Pineapple			0.13	Kew	Fruit	7.0 q	4000.00	7000.00	Ratoon crop
Pineapple			0.13	Kew	Sucker	5000 nos.	4000.00	25000.00	Ratoon crop
<b>Vegetables</b>									
Tomato	21.11.19	27.02.20	0.033	BNT-1217F	Fruit	2.0 q	500.00	2000.00	
Tomato	01.11.19	20.11.19		BNT-1217F	Seedling	2000 nos.	600.00	4000.00	
Brinjal	10.11.19	02.03.20	0.033	BNT516	Fruit	1.0 q	500.00	1000.00	
Brinjal	15.10.19	08.11.19		BNT516	Seedling	1700 nos.	200.00	3400.00	
Chilli	10.11.19	02.03.20	0.033	Yashawini	Fruit	0.10 q	200.00	400.00	
Chilli	15.10.19	08.11.19		Yashawini	Seedling	300 nos.	150.00	300.00	
Cabbage	15.10.19	08.11.19		BC-76	Seedling	2000 nos.	1050.00	4000.00	
Cauliflower	15.10.19	08.11.19		Giriraj	Seedling	500 nos.	250.00	1000.00	
Potato	10.11.19	26.02.20	0.13	Kufri jyoti	Tuber	7.0 q	5000.00	10500.00	
<b>Others (specify)</b>									
Buckwheat	11.11.19	26.02.19	2.0	local	Seed	1.5 q	4000.00	7500.00	Drought during flowerng

### 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	
1	Azolla	4.0 qt		4000.00	Products were used in the KVK farm
2	Vermicompost	5.0 qt	Farm wastage used	5000.00	

### 6.4 Performance of instructional farm (livestock and fisheries production) : No livestock unit at the farm

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	SHEEP & GOAT	beatle and local	-	6	10000	40000	
2	POULTRY	local, Karaknath	-	45	7000	23000	

### 6.5 Rainwater Harvesting

#### Training programmes conducted by using Rainwater Harvesting Demonstration Unit: Nil

Date	Title of the training course	Client (PF/R/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 2018-19

Accommodation available (No. of beds) : No hostel facilities

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

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

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute			
With KVK	State Bank of India	BRPL Complex, Dhaligaon	0010266315899
Revolving Fund	State bank of India	BRPL Complex, Dhaligaon	0031766578300

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 <sup>st</sup> March, 2019
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

### 7.3 Utilization of KVK funds during the year 2019 -20

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	120.00	156.16	156.16
2	Traveling allowances	2.50	2.06	2.06
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	15.00	14.86	14.06
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	14.86	14.06
<b>B. Non-Recurring Contingencies</b>				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)		0.00	0.00	0.00
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>				

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2017 to March 2018	2.11311	0.44414	0.02304	2,53,421.00
April 2018 to March 2019	2,53,421.00	40,180.00	5,679.00	2,87,922.00
April 2019 to March 2020	2,87,922.00	67,557.00	14,079.00	3,41,400.00

#### 7.5 Utilization of fund other than KVK fund

Sl No	Scheme/Project	Fund received (Rs)	Expenditure(Rs)	Balance (Rs)
1	PKVY	330000.00	57585.00	272415.00
2	CFLD on Oilseeds	810280.00	240261.00	570019.00
3	CFLD on Pulses	216533.00	276012.00	-59479.00
4	NEH Component	100000.00	36386.00	63614.00
5	RKVY (Mustard)	161700.00	29460.00	132240.00
6	PCRA	16600.00	16600.00	0
7	TSP-ICAR AINP on VPM	200000.00	165002.00	34998.00
8	ICAR seed project	35000.00	13430.00	21570.00
9	Bamboo Mission	295500.00	91210.00	204290.00
10	CMSGUY	435500.00	112958.00	322542.00



11	STC	853172.00	693347.00	159825.00
12	STC (Bari Development)	96775.00	82275.00	14500.00
13	Technology Showcasing+	99014.00	40190.00	58824.00

*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: One vehicle is not sufficient for functioning of all mandated activities and other activities
- (b) Financial: Allocation of fund under the recurring head is not sufficient
- (c) Technical: Additional activities other than mandated activities affect the normal activities

(Signature)  
Sr. Scientist cum Head