

**ANNUAL REPORT OF KVK DHEMAJI, 2019-20****1. GENERAL INFORMATION ABOUT THE KVK****1.1. Name and address of KVK with phone, fax and e-mail**

Address	Telephone	FAX	E mail
KVK, Dhemaji Jonaki Nagar, Silapathar	Office -	FAX -	pcdhemaji@gmail.com

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

Address	Telephone	FAX	E mail
Assam Agricultural University Jorhat, Assam PIN-785 013	Office 0376- 2340001, 2340013	0376-2340001	vc@aau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Gunjan Gogoi	-	9854016743/ 9435092550	gungogoi@yahoo.com

**1.4. Year of sanction: 2005****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
1	Sr. Scientist & Head	Vacant							
2	SMS	Dr. Gunjan Gogoi	SMS	Plant Protection	68900-205500	87300.00	07.11.08	P	OBC
3	SMS	Dr. Ashim Kumar Saikia	SMS	Animal Science	68900-205500	71000.00	16.03.09	P	OBC
4	SMS	Mrs. Binita Konwar	SMS	Horticulture	56100-177500	61300.00	29.01.14	P	OBC
5	SMS	Mr. Monuranjan Gogoi	SMS	Home Science	56100-177500	61300.00	13.02.14	P	OBC
6	SMS	Vacant							
7	SMS	Vacant							
8	Programme Assistant	Mr Bhupen Kr. Daflari	Prog. Assistant (Fisher	Fishery	35400-112400	38700.00	15.10.14	P	ST

9	Programme Assistant (Computer)	Dipak Goswami	Prog. Assistant (Computer)	MCA	35400-112400	52020.00	01.12.2008	P	GEN
10	Farm Manager	Dr. Binoy Roy	Farm Manager	Agricultural Biotechnology	22000-87000/+ GP 11500	50750.00	06.01.09	P	GEN
11	OSA	Mr Torit Bhuyan	OSA	MBA	35400-112400	41240.00	30.08.2016	P	GEN
12	Stenographer cum computer operator	Mr. Madhujya Protim Boruah	Jr. Stenographer cum Computer Operator	MA	25500-81100	25500.00	02-02-2019	P	GEN
13	Driver	Mr. Durgadhar Deori	Driver cum Mechanic	HS	21700-69100	26020.00	21.02.12	P	ST
14	Driver	Mr. Raju Konch	Driver cum Mechanic	Class- X	21700-69100	26020.00	21.02.12	P	OBC
15	Supporting staff	Mr. Dharmeswar Doley	Grade IV	BA	18000 - 56900	18000.00	12.07.2018	P	ST
16	Supporting staff	Mr. Pulin Borah	Grade IV	HSLC	18000 - 56900	18000.00	10.07.2018	P	MOBC
	<b>Total</b>	<b>15</b>							

**Note: P: Permanent**

- 1.6. a. Total land with KVK (in ha) : 18.66 ha**  
**b. Total cultivable land with KVK (in ha): Nil**  
**c. Total cultivated land (in ha): Nil**

**Note:**

- As the previously allotted land to KVK Dhemaji is under judiciary matter of Hon'ble High Court, Guahati due to interstate boarder dispute.
- The district administration Dhemaji newly handed over 18.66 ha land at Simenchapori for establishment of Krishi Vigyan Kendra.

**1.7. Infrastructural Development:**

A) Buildings: NA

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
<b>Mahindra Max</b>	<b>AS 03 H 3880</b>	<b>2010</b>	<b>5,05,176.00</b> (including VAT)	<b>1,60,507 km</b>	<b>Average</b>

C) Equipments &amp; AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer and accessories	2008	54,626.00	Good
Desktop Computer HP DX 2280- 1 No.			
Monitor CRT 17" HP - 1 no.			
Laser Printer HP LJ 1505N			
Scanner HP SG 2410			
Chair Model No. CH-7B – 4 nos.	2008	44,053.00	Good
Chair Model PCH 700 ID- 1 No.			
Reck – 1 NO.			
Storewel Model-2 1 No.			
Table Model T9--- 1 No.			
UPS Uniline 1 KVA 800 VAH	2008	10,620.00	Good
Plastic Table (2 nos.)- Model Neelkamal	2009	4000.00	Good
Plastic chair Neelkamal without arm- Model 4002--- 10 nos	2009		
Plastic chair Neelkamal with arm--- 10 nos	2009	2700.00	Good
Uniline 800 VA FB LI UPS (2 nos.)	2010	11,929.00	Good
Desktop computer Make and Model HP-DX-2000 series (2 nos.)		55,094.00	Good
LCD Monitor 15" HP (2 nos.)	2010	-	Good
Laser printer HP LJ P 1007 – 1 no.	2010	5,475.00	Good
Scanner HP G2410-1 no.	2010	2724.00	Good
Digital Camera- Sony (DSC-WX1)	2010	19,000.00	Good
Fax Machine Make Brother Model-2820	2010	15,190.00	Not installed
LCD Projector Make Sony	2010	98,331.00	Good
Photo copier along with 2 KVA Voltage	2010	1,01,920.00	Out of order

Stabilizer			
Full secretariat table- 6 nos.	2010		Good
Desktop Computer HP 550-011- 2 Nos.	2016	1,35,390.00	Good
Laser Printer HP	2016	47,058.00	Good
UPS 1Kv (Elnova)- 02 Nos	2016	11,800.00	Good
Laptop HP	2016	55752.00	(Stock transferred to DoEE, AAU)
Table WT -716- 1 No	2016	40,308.00	Good
Table T-9- 2 Nos.	2016	35388.00	Good
Chair- Bravo – 1 No.	2016	8126.00	Good
4 Drawer Filling cabinet- 1 No.	2016	18723.00	Good
Chair CH7B -7 Nos.	2016	23464.00	Good
Computer Table C9 – 2 Nos	2016	12371.00	Good
Computer Chair Model- 41301- 2 Nos.	<b>2016</b>	<b>8773.00</b>	Good
Desktop Computer HP 550-011 - 1 No.	2020	Newly purchased	
Photocopier – 1 no.	2020		

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

The SAC meeting was not held due to locked down on account of COVID- 19

## 2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1	Agri (Rice – Rice; Rice- Oilseed; Rice – Pulse)
2	Agri – Horti (Rice – Vegetables; Potato – Sesamum/ summer vegetable; Blackgram – Vegetable)
3	Agri – Horti – Animal husbandry
4	Agri – Horti – Animal husbandry – Fishery
5	Agri – Horti – Animal husbandry
6	Agri – Horti – Fishery
7	Animal husbandry – Fishery
8	Sericulture

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

#### Agro-climatic Zone:

**North Bank Plains Zone:** The soil is developed on alluvium derived from the adjacent Himalayan range by the river Brahmaputra and its tributaries. The soils are mostly sandy loam having medium to low Nitrogen, low in Phosphorus and medium to low in Potassium content. The pH of the soil

varies from 4.8 to 6.3. The topography of the soils is mostly medium land in the plain areas being chronically flood affected. Low land areas towards riverine tract are submerged or flooded due to high rainfall during rainy season. The foot hill region is characterized by undulating topography.

#### Agro-ecological situations:

1. **Medium land:** Generally flood free but occasionally submerged due to high rainfall. Soils are mostly acidic, clay loam in texture with medium in nitrogen, low in phosphorus and medium in potassium content.
2. **Low and Flood affected:** Flood plain submerged almost whole rainy season. Soils are mostly acidic, sandy loam in texture with medium in nitrogen, low in phosphorus and medium in potassium content.
3. **Silt deposited area:** Flood plain having silt deposition, occasionally submerged. Soils are mostly acidic, silty loam in texture with medium in nitrogen, low in phosphorus and medium in potassium content.
4. **Sand deposited area:** Flood plain having sand deposition, occasionally submerged. Soils are mostly acidic, sandy in texture with micro nutrient deficiency, medium in nitrogen, low in phosphorus and medium in potassium content. Mild iron toxicity persist.
5. **Foothill:** Undulating topography. Soils are acidic in nature, sandy in texture with micro nutrient deficiency, medium in nitrogen, low in phosphorus and medium in potassium content.

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	<b>Clay</b>	Heavy soil with high organic matter, high C: N ratio, high nitrogen content with medium in phosphorus and potassium content. High water and nutrient holding capacities.	27,346
2.	<b>Clay loam</b>	Light heavy soils with medium to high organic matter, high C: N ratio, medium to high nitrogen content with medium in phosphorus and potassium content. High water and nutrient holding capacities.	60,997
3.	<b>Alluvial</b>	Medium soils with medium in organic matter, low C: N ratio, medium in nitrogen, phosphorus and potassium content.	13,313
4.	<b>Sandy loam</b>	Light soil with low in organic matter, low in nitrogen, phosphorus and potassium content.	1, 37,552
5.	<b>Sandy</b>	Light soil with low in organic matter, low in nitrogen, phosphorus and potassium content.	62,106

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

Sl. No	Crop	Area (ha)	Production (qtls)	Productivity (qtl /ha)
1.	Rice- a) Autumn	11120	201939.2	18.16
	b) Winter Rice	66240	1944144	29.35
	c) Summer Rice	3278	116696.8	35.6
	Total	80638	2262780	
2.	Maize	543	19222.2	35.4
3.	Sugarcane	210	94521	450.1
4.	Mustard	17283	185792.25	10.75
5.	Blackgram	1096	9359.84	8.54
6.	Pea	628	5601.76	8.92
7.	Potato	6042	967022.1	160.05
8.	Vegetables- a) Rabi	3039	624514.5	205.5
	b) Kharif	1825	229585	125.8
9.	Ginger	182	22859.2	125.6
10.	Turmeric	312	47034	150.75
11.	Garlic	103	4696.8	45.6

Note: Data as per Department of Agriculture, Dhemaji

**2.5. Weather data**

Month	Rainfall (mm)	Temperature ° C			Relative Humidity (%)
		Maximum	Minimum	Average	
April'19	147.00	18	26	21	96.4
May'19	581.50	20	27	23	96.8
June'19	443.00	23	28	25	98.5
July'19	657.80	24	28	26	99.3
August'19	162.70	23	29	26	84.3
September'19	379.30	22	27	24	80.3
October'19	125.60	20	30	26	92.3
November'19	13.40	16	27	22	76.8
December'19	13.60	14	24	20	89.7
January'20	69.00	13	25	20	88.3
February'20	89.20	15	25	21	87.6
March'20	20.80	18.0	28	24	91.1

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

Category	Population ( in '000)	Production	Productivity
<b>Cattle</b>			
<i>Indigenous</i>	466323	87129 litres milk	-
<b>Buffalo</b>	14821	63469 litres milk	-
<b>Goats</b>	117568	119320 (live wt in kg)	-
<b>Pigs</b>	114013	871296 (live wt in kg)	-
<b>Poultry</b>			
<b>Hens</b>	534103	295296 (eggs in '000 numbers)	-

Note: Data as per Department of Veterinary, Dhemaji

Category	Area	Production	Productivity
<b>Fish</b>		5800 ton. (Year 2015-16)	

**Fertilizers use in Dhemaji, 2017-18 (in Tonne)**

Kharif				Rabi				Gross cropped area (Hac.)	Per Hect. consumption (Kg)
N	P	K	Total	N	P	K	Total		
1680.09	529.22	514.50	2723.81	2160.90	698.25	588.00	3447.15	122	50.58

Source: Statistical Handbook Assam, 2018

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

Sl. No.	Name of the block	Name of the village	Major crops & enterprises	Major problem Identified	Identified thrust area
1	Jonai MSTD	Telam Jamjing	Piggery, Rice, Poultry	1. Low yield of local rice variety 2. Non adoption of HYV rice and scientific cultivation practices 3. Lack of irrigation system 4. Poor growth of pig due to non adoption of scientific rearing 5. Incidence of diseases of poultry and pig	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Livestock and poultry management
2		Michamara	Sali paddy, Rabi crops, Poultry and Piggery	1. Non availability of improved crop varieties 2. Lack of irrigation system 3. Poor growth of pig due to non adoption of scientific rearing 4. Incidence of diseases of poultry and pig	1. ICM and IPM 2. Livestock and poultry management 3. Winter crop cultivation
3		Taduniya	Piggery, Rice, Poultry	1. Low yield of local rice variety 2. Non adoption of HYV rice and scientific cultivation practices 3. Lack of irrigation system 3. Poor growth of pig due to non adoption of scientific rearing 4. Incidence of diseases of poultry and pig	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Livestock and poultry management
4		No. 4 Baligora	Sali paddy Winter vegetables Goatery Piggery	1. Lack of knowledge on Scientific crop production practices 2. Lack of knowledge scientific rearing, breed up gradation of livestock 3. Less aware on high value vegetables	1. Soil and crop health management 2. Goat management 3. Piggery management 4. High value crop production
5		No. 1 Bezguri	Sali paddy Winter vegetables Goatery Piggery	1. Lack of knowledge on Scientific crop production practices 2. Lack of knowledge scientific rearing, breed up gradation of livestock 3. Less aware on high value vegetables	1. Soil and crop health management 2. Goat management 3. Piggery management 4. High value crop production



6	Boikunthapur	Sali paddy, Eri and muga rearing, Poultry and Piggery	<ol style="list-style-type: none"> <li>1. Non availability of improved crop varieties</li> <li>2. Shortage of muga DFL and lack of mechanization in muga spinning and eri reeling</li> <li>3. Incidence of diseases of poultry and pig</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Training on post harvest operation of muga and eri cocoon</li> <li>3. Livestock and poultry management</li> </ol>
7	Dekapam	Sali paddy, Sericulture, Poultry, Piggery, Summer vegetables	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars,</li> <li>2. Non- availability quality seeds of HYVs less aware on scientific crop management</li> <li>3. Low litter size, high mortality, disease problem, non- availability quality breed in pigs</li> <li>4. Low egg and meat productivity, high mortality and non-scientific management</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3. Livestock and poultry management</li> <li>4. Breed introduction, poultry management</li> </ol>
8	Sonapur	Sali paddy Winter vegetables Goatery Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on Scientific crop production practices</li> <li>2. Lack of knowledge scientific rearing, breed up gradation of livestock</li> <li>3. Less aware on high value vegetables</li> </ol>	<ol style="list-style-type: none"> <li>1. Soil and crop health management</li> <li>2. Goat management</li> <li>3. Piggery management</li> <li>4. high value crop production</li> </ol>
9	Seren Sonowal	Sali paddy Winter vegetables Goatery Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on Scientific crop production practices</li> <li>2. Lack of knowledge scientific rearing, breed up gradation of livestock</li> <li>3. Less aware on high value vegetables</li> </ol>	<ol style="list-style-type: none"> <li>1. Soil and crop health management</li> <li>2. Goat management</li> <li>3. Piggery management</li> <li>4. High value crop production</li> </ol>
10	Nowkata	Winter vegetables, Pea Potato, Garlic, Back yard poultry, Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on fertilizer application, plant protection, crop management</li> <li>2. Non adoption of HYV, low productivity of local cultivars</li> <li>3. lack of storage facilities</li> <li>4. Flashflood condition</li> <li>5. Low egg and meat productivity in poultry due to unscientific management</li> <li>6. Low production, low litter size, high mortality in pigs</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Facilities for storage</li> </ol>

11	Rawan, Simen Chapori	Sali paddy, Blackgram Winter vegetables Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper marketing channel</li> <li>5. Poor financial condition of farmers</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Arrangement of marketing and financial institution</li> </ol>
12	Bokajan, Dimow	Sali paddy, Goatery, Oil seeds, Winter vegetables	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars</li> <li>2. Lack of knowledge on fertilizer application, plant protection, crop management</li> <li>3. Low egg and meat productivity in poultry due to unscientific management</li> </ol>	<ol style="list-style-type: none"> <li>1. Goatery</li> <li>2. Group mobilization</li> <li>3. Entrepreneurship development</li> </ol>
13	Sagolikata, Dimow	Sali paddy Winter vegetables Goatery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on Scientific crop production practices</li> <li>2. Lack of knowledge scientific rearing, breed up gradation of livestock</li> <li>3. Less aware on high value vegetables</li> </ol>	<ol style="list-style-type: none"> <li>1. Soil and crop health management</li> <li>2. Goat management</li> <li>3. High value crop production</li> </ol>
14	Kanchinath Chapori, Sienmukh	Sali paddy, Summer vegetables Winter vegetables, sugarcane Piggery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Lack of knowledge scientific rearing, breed up gradation of livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Group mobilization</li> <li>3. Entrepreneurship development</li> <li>4. Scientific piggery management</li> </ol>
15	Simen Bali Chapori	Sali paddy, pulses, Summer vegetables Winter vegetables, Back yard poultry Piggery, Goatery, Cattle	<ol style="list-style-type: none"> <li>1. Low yield of local rice variety</li> <li>2. Non adoption of HYV rice and scientific cultivation practices</li> <li>3. Lack of irrigation system</li> <li>4. Poor growth of pig due to non adoption of scientific rearing</li> <li>5. Incidence of diseases of poultry and pig</li> <li>6. Improper management of Livestock</li> <li>7. Poor financial condition of farmers</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3. Livestock and poultry management</li> <li>4. Entrepreneurship development</li> </ol>

16	Somkong	Summer vegetables Winter vegetables, Back yard poultry Piggery	1. Low egg and meat productivity in poultry due to unscientific management 2. Low production, low litter size, high mortality in pigs 3. Improper management of Livestock	1. Breed introduction, poultry management 2. Piggery management
17	1 No. Hasong	Sali paddy, pulses, Summer vegetables Winter vegetables, Back yard poultry Piggery, Fishery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management 5. Fishery management
18	Dimow pale	Sali paddy, Back yard poultry, Piggery, Bee rearing	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs	1. Bee rearing 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management
19	No 1 Joypur	Sali paddy, Summer vegetables, Piggery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Incidence of diseases of poultry and pig	1. Cultivation of summer vegetables 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management
20	Shantipur, Dimow	Sali paddy, Back yard poultry Piggery, Fishery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of fisheries	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management 5. Piggery based IFS system

21		Oyam Bali	Sali paddy, Winter vegetables, piggery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Piggery management
22		Muktiyar Lakhimi	Sali paddy, pulses, Summer vegetables, Winter vegetables, Backyard poultry, Piggery, Fishery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management 5. Fishery management
23	Sissiborgaon	Ajarbari,	Sali paddy, pulses, Summer vegetables, Winter vegetables, Back yard poultry, Piggery, Fishery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management 5. Fishery management
24		Mishingpur	Sali paddy, Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management
25		Mothadang	Sali paddy, Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management

26	Sila Majorbari	Sali paddy, pulses, Summer vegetables Winter vegetables, Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of Livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> </ol>
27	No. 2 Loklung Boro	Sali paddy, pulses, Summer vegetables Winter vegetables, Backyard poultry Piggery, Fishery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of Livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> </ol>
28	Mesu Nolonipam	Sali paddy, Summer vegetables Winter vegetables, Backyard poultry Piggery, Fishery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management in fish rearing</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Fishery management</li> </ol>
29	Amguri Bali, Sisi Tongani	Sali paddy Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3. Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>

30	Mithun pathar	Sali paddy, Summer vegetables Winter vegetables, Backyard poultry Piggery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Poor scientific practice in vegetable cultivation</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of livestock and poultry</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Fishery management</li> </ol>
31	Sila Gaon	Sali paddy Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3 Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
32	Solokhani	Sali paddy Summer & winter vegetables Back yard poultry Piggery Goatery Potato, Colocasia & other plantation crops	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of Sali rice</li> <li>2. ICM and IPM</li> <li>3 Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
33	Borpathar	Sali paddy, summer and winter vegetable, Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3. Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
34	No. 2 Ananda Nagar	Sali paddy, summer and winter vegetable, Back yard poultry	<ol style="list-style-type: none"> <li>1.Lack of knowledge on scientific crop management</li> <li>2.Disease problem in livestock</li> <li>3. Low egg and meat productivity</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM in paddy and vegetable</li> <li>3. Integrated poultry management</li> </ol>

35	Kebaranga	Sali paddy, winter vegetable, Back yard poultry Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. ICM and IPM 2. Scientific potato cultivation 3 Integrated livestock management 4. Integrated poultry management
36	Akajan	Sali paddy Back yard poultry Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3 Integrated livestock management 4. Integrated poultry management
37	Janakalyan Siripani	Sali paddy, winter vegetable, Back yard poultry, Piggery and duckery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of duck breed 2. ICM and IPM in paddy and vegetable 3 Integrated livestock management 4. Integrated poultry management
38	No. 2 Mechaki	Bao paddy, winter vegetable, Back yard poultry Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. ICM and IPM in vegetable cultivation 2. Integrated livestock management 3. Integrated poultry management
39	Sila Brahmapur	Sali paddy, Dairy Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity of dairy cattle 3 Low egg and meat production	1. ICM and IPM 2 Integrated livestock management 3. Fodder crop introduction
40	Ghagra	Sali paddy, Dairy Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity of dairy cattle 3 Low egg and meat production	1. ICM and IPM 2 Integrated livestock management 3. Fodder crop introduction
41	Kosek Ujoni Sissi Tongani	Sali paddy, Fishery Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from fishery 3 Low egg and meat production	1. ICM and IPM 2 Scientific fish rearing management 3. Fodder crop introduction

42	Bormukoli	Sali paddy, Fishery Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from fishery 3 Low egg and meat production	1. ICM and IPM 2 Scientific fish rea management 3. Fodder crop introduction
43	Punoi	Sali paddy, Fishery Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from fishery 3 Low egg and meat production	1. ICM and IPM 2 Scientific fish rea management 3. Fodder crop introduction
44	Chitalmari	Bao paddy, winter vegetable, Back yard poultry Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. ICM and IPM in vegetabable cultivation 2. Integrated livestock management 3. Integrated poultry management
45	Ayan bali	Sali paddy, Fishery Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from fishery 3 Low egg and meat production	1. ICM and IPM 2 Scientific fish rea management 3. Fodder crop introduction
46	Shantipur Jengrai	Bao paddy, winter vegetable, Back yard poultry Piggery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. ICM and IPM in vegetabable cultivation 2. Integrated livestock management 3. Integrated poultry management
47	Mesu axomiya	Bao paddy, winter vegetable, Back yard poultry Piggery Fishery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. ICM and IPM in vegetable cultivation 2. Integrated Farming system 3. Integrated poultry management
48	Mesu Kachari	Sali paddy, Rabi vegetable Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops 3. Low egg and meat production	1. ICM and IPM 2. Scientific vegetable cultivation 3. Integrated poultry management 4. Piggery management



49	Kathalguri	Sali paddy, Rabi vegetable Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops 3. Low egg and meat production	1. ICM and IPM 2. Scientific vegetable cultivation 3. Integrated poultry management 4. Piggery management
50	Deurighat	Sali paddy, Rabi vegetable Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops 3. Low egg and meat production	1. ICM and IPM 2. Scientific vegetable cultivation 3. Integrated poultry management 4. Piggery management
51	Sekaimukh	Sali paddy, Rabi vegetable Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops 3. Low egg and meat production	1. ICM and IPM 2. Scientific vegetable cultivation 3. Integrated poultry management 4. Piggery management
52	Kalabari Dambuk	Sali paddy, Rabi vegetable Back yard poultry, Piggery	1. Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops 3. Low egg and meat production	1. ICM and IPM 2. Scientific vegetable cultivation 3. Integrated poultry management 4. Piggery management
53	Kulamuwa	Winter and rabi vegetable cultivation	Lack of knowledge on scientific crop management 2. Lower productivity from vegetable crops	1. ICM and IPM 2. Scientific vegetable cultivation
54	Korphulani	Winter and rabi vegetable cultivation	Lack of knowledge on scientific crop management 2. Injudicious use of chemicals and fertilizer	1. ICM and IPM 2. Scientific vegetable cultivation
55	Archi- Majorbari,	Sali paddy, pulses, Summer vegetables Winter vegetables, Back yard poultry Piggery, Fishery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management 5. Fishery management

56	Bagari-Kaliyani,	Sali paddy, pulses, Summer vegetables Winter vegetables, Back yard poultry Piggery, Fishery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of Livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Fishery management</li> </ol>
57	Akaa Bijoypur,	Sali paddy Summer vegetables Back yard poultry Piggery Goatery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> <li>3. Low production, low litter size, high mortality, disease problem in pigs</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3 Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
58	Arne chapori	Sali paddy Summer vegetables Back yard poultry Goatery Potato, Colocasia & other plantation crops	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> <li>3. Low production, low litter size, high mortality, disease problem in pigs</li> </ol>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3. Integrated poultry management</li> </ol>
59	Amguribari-Bogibeel	Sali paddy Back yard poultry Piggery	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3 Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
60	Archi-Lasong,	Sali paddy, pulses, Summer vegetables Winter vegetables, Backyard poultry Piggery, Fishery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of Livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Fishery management</li> </ol>

61	Jatiay Chapori,	Sali paddy, pulses, Summer vegetables Winter vegetables, Backyard poultry Piggery, Fishery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> <li>4. Improper management of Livestock</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> <li>5. Fishery management</li> </ol>
62	Alupara- Olampaam,	Sali paddy Summer vegetables Back yard poultry Piggery Goatery Potato, Colocasia & other plantation crops	<ol style="list-style-type: none"> <li>1. Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity</li> </ol> <p>Low production, low litter size, high mortality, disease problem in pigs</p>	<ol style="list-style-type: none"> <li>1. Introduction of HYV of sali rice</li> <li>2. ICM and IPM</li> <li>3 Integrated livestock management</li> <li>4. Integrated poultry management</li> </ol>
63	Ujani Nilokh	Sali paddy, Winter vegetables, Ginger & turmeric, Piggery and poultry	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars</li> <li>2. Lack of knowledge on scientific crop management</li> <li>3. Low litter size, high mortality, disease problem, non- availability quality breed</li> <li>4. Low productivity of local poultry breed</li> </ol>	<ol style="list-style-type: none"> <li>1. Crop variety introduction</li> <li>2. Crop production and management,</li> <li>3. Introduction of improved poultry breed</li> <li>4. Piggery management</li> </ol>
64	Tongani Maj Gaon	Sali paddy, Oilseed Backyard poultry Piggery	<ol style="list-style-type: none"> <li>1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management</li> <li>2. Low egg and meat productivity in poultry due to unscientific management</li> <li>3. Low production, low litter size, high mortality in pigs</li> </ol>	<ol style="list-style-type: none"> <li>1. ICM and IPM</li> <li>2. Introduction of HYVs mustard</li> <li>3. Breed introduction, poultry management</li> <li>4. Piggery management</li> </ol>

65		Kolowlua	Sali paddy Summer & winter vegetables Back yard poultry Piggery Goatery Potato, Colocasia & other plantation crops	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3 Integrated livestock management 4. Integrated poultry management
66		Joriguri	Sali paddy, Vegetables, Back yard poultry Potato, Colocasia Betelvine, & Arecanut	1. Lack of knowledge on fertilizer application and plant protection 2. Low egg and meat productivity 3. Pest and disease infestation	1. Integrated Crop, crop & soil health management 2. IPM 3. Breed introduction and poultry management
67		Lakhipur	Sali paddy, Assam Lemon, Betelvine, Winter vegetables, Back yard poultry, Duckery, Piggery	1. Lack of irrigation facilities 2. Improper management of Livestock 3. Draught like and flashflood situation 4. Less aware on breed up gradation 5. Unscientific management of fisheries 6. Less capacity of farm women	1. Contingency crop planning 2. Breed introduction, poultry and duck 3. Piggery management 4. Carp seed rearing , Fish pond management management of IFS 5. Women empowerment
68	Machkhowa	Lagachu, Bengenagora	Sali paddy, bao paddy, Blackgram, Toria, Piggery, Sericulture	1. Use of low yield of local cultivars 2. Lack of knowledge on scientific crop management 3. Low litter size, high mortality, disease problem, non- availability quality breed 4. Non availability of quality seed of Muga, poor spinning method, lack of knowledge host plant management 5. Less aware on income generating activities	1. Crop variety introduction 2. Crop production and management, 3. Introduction of quality muga and eri seed 4. Piggery management 5. Women empowerment
69		Majgaon	Paddy (Sali and Bao), Toria, Piggery and poultry	1. Lack of knowledge on scientific crop management 2. Non availability of quality seed 3. Low productivity of local poultry breed	1. Crop variety introduction 2. Crop production and management, 3. Poultry management 4. Piggery management

70		Chamuah gaon	Paddy (Sali and Bao), Torla and poultry	1. Lack of knowledge on scientific crop management 2. Non availability of quality seed 3. Low productivity of local poultry breed	1. Crop variety introduction 2. Crop production and management, 3. Poultry management
71		Chowkham	Paddy (Sali and Bao), Torla and Piggery	1. Lack of knowledge on scientific crop management 2. Non availability of quality seed 3. Low productivity of local poultry breed	1. Crop variety introduction 2. Crop production and management, 3. Piggery management
72		Kolapathar Kochari	Sali paddy Summer vegetables Back yard poultry Piggery Goatery Potato & other plantation crops	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management
73	Dhemaji	Kamargaon	Sali paddy Summer vegetables Back yard poultry Piggery Goatery Potato, Colocasia & other plantation crops	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management
74		2 No. Gheyari	Sali paddy, winter vegetables, field pea, potato, piggery, sericulture	1. Lack of knowledge about scientific cultivation of crops 2. Non availability of quality seeds and planting material 3. Low egg and meat productivity 4. Low production, low litter size, high mortality, disease problem in pigs 5. Low production and non availability of quality seed	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management

75		Jamukoni- Matikhola	Sali paddy Summer & winter vegetables Back yard poultry Piggery Goatery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV mustard variety 2. ICM and IPM in crop and vegetable 3. Integrated livestock management 4. Integrated poultry management
76		Holodunga	Sali paddy Summer & winter vegetables Back yard poultry Piggery Goatery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV mustard variety 2. ICM and IPM in crop and vegetable 3 Integrated livestock management 4. Integrated poultry management
77		Batgharia	Sali paddy, Oilseeds Back yard poultry Piggery Goatery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and INM in Toria 3 Integrated livestock management 4. Integrated poultry management
78	Bardalani	Kachutoli- Bodo gaon	Sali paddy, pulses, toria Backyard poultry Piggery, Goatery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management
79		Ratuwa	Sali paddy, pulses, Backyard poultry Piggery	1. Low yield of local cultivars, non availability and adoption of HYVs, Lack of knowledge on scientific crop management 2. Low egg and meat productivity in poultry due to unscientific management 3. Low production, low litter size, high mortality in pigs 4. Improper management of Livestock	1. ICM and IPM 2. Introduction of HYVs 3. Breed introduction, poultry management 4. Piggery management

80	Bhebeli Sonowal	Sali paddy, Bao paddy Winter vegetables Back yard poultry Piggery Duck rearing	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity in chicken & duck 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management 5. Introduction of improved duck variety
81	Bhebeli Sonowal	Sali paddy Summer vegetables Back yard poultry Piggery Goatery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of Sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management
82	Barbam Deuri	Sali paddy Summer vegetables Back yard poultry Piggery Goatery	1. Lack of knowledge on scientific crop management 2. Low egg and meat productivity 3. Low production, low litter size, high mortality, disease problem in pigs	1. Introduction of HYV of sali rice 2. ICM and IPM 3. Integrated livestock management 4. Integrated poultry management

### 3. TECHNICAL ACHIEVEMENTS

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

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
<b>Crop Science</b>	2	3	6	8	5	12	37	419
<b>Plant protection</b>	2	2	6	7	3	3	12	45
<b>Soil Science</b>	1	0	3	0	2	0	16	0
<b>Horticulture</b>	1	1	3	2	3	5	12	342
<b>Animal Science</b>	2	3	23	29	5	7	45	148
<b>Fisheries Science</b>	2	3	7	7	2	2	4	4
<b>Community Science</b>	2	1	6	1	3	2	48	4
<b>Total</b>	<b>12</b>	<b>13</b>	<b>54</b>	<b>54</b>	<b>23</b>	<b>31</b>	<b>192</b>	<b>962</b>

Note: Target set during last Annual Zonal Workshop

#### 4. B. Abstract of interventions undertaken during 2019-20

Sl. no.	Thrust area	Crop/Enterprise	Identified problems	Interventions						
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.	
1.	Varietal evaluation	Paddy	Lack of Medium duration HYV of paddy with long slender grain	Varietal performance of Tripura Chikan Dhan						Seeds, Fertilizers & pesticides



			quality						
2.	Varietal evaluation	Blackgram	Lack of HYV Black gram with the local farmers	Assessment of new Blackgram varieties-SB 42-8, and PU 31(Check)					Seed & fertilizers
3.	Varietal evaluation	Blackgram	Due to lack of late sowing black gram as incessant rain is frequently seen in normal sowing time	Assessment of performance of late sown Blackgram variety-Beki and Kolong					Seed, fertilizers, Pesticides
4.	Fish Production	Chital ( <i>N. Chitala</i> )	Low productivity due to lack of live natural feed in existing culture practices	Performance of poly culture of Chital ( <i>N. Chitala</i> ) in combination with Common carp & Moa					Lime, Fish seed & Feed (supplement feed for common carp only)
5.	Pond management	Spp.: Amur common carp	Low productivity of existing stock of common carp	Performance of Amur common carp in composite fish culture					Lime, fertilizer, Fish seed & feed
6.	High value food production	Spp.: <i>Monopterus spp.</i>	No proper breeding technology	Kuchia ( <i>Monopterus kuchia</i> ) culture in cemented tank					Tank construction material & Kuchia
7.	Breed improve	HDK-75	Non availability of high	Assessment of performance					Piglet, medicine

	ment		yielding pig breed and low performance of existing breeds	ence of newly developed improved type pig breed-HDK-75 for meat & piglet production					e & feed
8.	Breed introduction	Duck Var.: <i>White Pekin</i>	Low body weight gain in local or <i>pati</i> duck	Assessment of performance of Broiler Duck var.: <i>White Pekin</i>					Ducklings, Feed & Medicine
9.	Breed introduction	Poultry Var.: <i>Kadaknath/Kalimasi</i>	Introduction of high value chicken with high nutritional quality	Assessment of performance of Kadaknath/Kali Masi					Chicks, Feed & Medicine
10.	Integrated Disease Management	Tomato	Considerable economic loss to the crop due to BW, LB and ToLCV.	Assessment of Multiple disease resistant Tomato hybrid Arka Abheed & Arka Rakshak					Seed, fertilizers, Pesticides
11.	Integrated Disease Management	French bean	Considerable economic loss due to infestation of rust	Assessment of rust resistant Frenchbean variety <i>Arka Sukomal</i>					Seed, fertilizers, Pesticides
12.	Intercropping	Turmeric, Ginger, Ahina	Unutilization of the inter	Intercropping in between					Planting materials,

		Kochu	space between the food plants in sericulture garden	muga host plantation for better economic dividend					<b>vermicompost</b>
<b>13.</b>	Value addition	Muga, Eri & Mulberry yarn	Low economic gain due to less diversity	Assessment of Blending of various					Muga, Eri & Mulberry yarn
<b>14.</b>	Crop management	Submergence tolerant Sali paddy var. Bahadur sub-1	Less popularity of submergence tolerant paddy variety		Demonstration on Scientific cultivation of submergence tolerant Sali rice variety Bahadur Sub 1 in low land areas of Dhemaji district	Certified seed production of Sali paddy			<b>Seeds, Fertilizers and pesticides</b>
<b>15.</b>	Crop management	Submergence tolerant Sali paddy var. Ranjit sub-1	Less popularity of submergence tolerant paddy variety		Demonstration on Scientific cultivation of submergence tolerant Sali rice variety Ranjit Sub 1 in low land areas of Dhemaji district	Certified seed production of Sali paddy			<b>Seeds, Fertilizers and pesticides</b>
<b>16.</b>	Crop management	Sali paddy - Toria	Land remain fallow after Sali paddy		Demonstration on rice – toria cropping sequence				<b>Seeds and pesticides</b>
<b>17.</b>	Integrated Pest	Sali	Rice crops		IPM module			Field	<b>Seed, fertilizer</b>

	Managem ent	paddy	frequently attack by numbers of pest and diseases causes economic losses		for managing insect pest of HYV Sali rice in Dhemaji			day	rs, Pesticid es, Pherom one trap
18.	Breed Introducti on	Poultry breed Vanaraja	Low productivit y of local poultry breed		Populariza tion improved type dual purpose poultry breed “Vanaraja ”	Care & Manag ement of Poultry			Rainbo w rooster chick, feed, vaccines , medicin e
19.	Breed Introducti on	Poultry breed Kamrupa	Low productivit y of local poultry breed		Populariza tion improved type dual purpose poultry breed “Kamrupa ”				Kamru pa rooster chick, feed, vaccines , medicin e
20.	Pond managem ent	Fish spp. -IMC, Minor carp , Exotic carp Chick breed: Vanaraja	Low income from a unit area due to single farming system		Performan ce of Integrated Fish cum poultry farming	Livesto ck based Integra ted farmin g system			Lime, Fish seed, fish feed, chicks
21.	Fingerlin g productio n	Fish spp. Jainti rohu	Body weight and quality is low in existing Rohu ( <i>Labeo rohita</i> )		Demonstr ation of Jainti rohu in composite fish culture	Fish seed product ion and nursery pond manag ement technol ogy			Lime, fertilize r, fish seed & fish feed
22.	Varietal evaluatio	Summer Green	Non availability		Assessme nt of				Seeds, Fertilize

	n	gram	of suitable varieties for cultivation		performance of Summer Green Gram SGC-16				<b>rs and pesticides</b>
<b>23.</b>	Fodder production and quality enhancement	Napier grass var. CO 5	Non availability permanent quality grass		Year round fodder production through of Napier grass (var. CO 5)				<b>Planting material, fertilizers</b>
<b>24.</b>	Health care	Mineral mixture 'AAUVE TMIN	Lower milk production and reproductive performance of cattle due to micronutrient deficiency		Supplementation of area specific mineral mixture to dairy cattle for enhancement of milk production reproductive performance				Mineral mixture 'AAUVE TMIN, anthelmintics
<b>25.</b>	Breed introduction	Var.: Japanese quail	The farmers of Dhemaji district less aware about the Quail rearing		Assessment of performance of Quail var.: Japanese quail				<b>Chicks, Feed &amp; Medicine</b>
<b>26.</b>	Beneficial organism	Mushroom	Less aware of the cultivable mushroom as well as production technology of mushroom		Year round production of oyster mushroom	Scientific Cultivation of Oyster Mushroom		Field day	<b>Spawn, Poly bags</b>
<b>27.</b>	Fodder production and quality enhancement	Oat grass var. JHO-822	Non availability quality grass at lean period		Fodder production through cultivation of Oat grass (var.			Field day	<b>Seeds and fertilizers</b>

	ent				JHO-822)				
28.	Apiculture	Apiary	Lack of small scale agri enterprises		Scientific rearing of honey bees				Bee hives with colony, Excluder, hand gloves, Bee veil, extractor
29.	Organic farming	Ginger var. <i>Nadia</i>	Less aware about the organic cultivation practices of Ginger		Organic cultivation of Ginger var. <i>Nadia</i> using green leaves as Mulching material	Improved cultivation practices of Ginger & Turmeric			Ginger Rhizomes, Vermicompost & Pesticides
30.	Value addition	Natural dye	i) Lack of commercially available natural dye ii) Product diversification through natural dyeing		Application of Natural Dye for product diversification of textile material	Value addition of Textile material through Tie & Dye		Method demonstration	Cotton fabric, Yarn, Dye
31.	Kitchen Garden	Kitchen Garden	Less frequency of consumption of vegetables due to high price and availability		Nutritional security through model kitchen garden				<b>Seed, Planting material</b>
32.	Breed Introduction	Poultry breed	Low productivity of local		Popularization improved				<b>Kamrupa</b>

	on	Rainbow rooster	poultry breed		type dual purpose poultry breed "Rainbow rooster"				rooster chick, feed, vaccines, medicine
CFLD under NMOOP and NFSM Pulse sponsored by ATARI									
33.	Integrated Nutrient Management	Blackgram	Ignorance about use of biofertilizers in Blackgram as a cheap and efficient source of nutrients		Integrated Nutrient Management in Blackgram	Scientific cultivation of Blackgram		Field day	Seed, Biofertilizers, Vermicompost
34.	Integrated Nutrient Management	Field Pea	Ignorance about use of biofertilizers in Pea as a cheap and efficient source of nutrients		Integrated Nutrient Management in Pea	Integrated Nutrient Management in Pea		Field day	Seed, Biofertilizers, Vermicompost
35.	Crop management	Sesamum	Low production of local cultivars		Scientific cultivation of Sesamum var. <i>Bahuabheti</i>			Field day	Seed, Vermicompost, pesticide
Demonstrations under TSP programme									
36.	Crop production	Potato	Low production of local cultivars.		Demonstration on improved cultivation practices of Potato var. <i>Kufri Jyoti</i>	Scientific cultivation of Potato			Planting material
37.	Crop management	Submergence toralant	Less popularity of		Demonstration on Scientific				Seeds

	ent	Sali paddy var. Ranjit sub-1 & Bahadur sub 1	submergence tolerant paddy variety		cultivation of submergence tolerant Sali rice variety Ranjit Sub 1 & Bahadur sub 1 in low land areas of Dhemaji district				
38.	Crop management	Tomato, Cucumbe r, Squash	Low yield of local cultivars due to unscientific crop management		Scientific cultivation of Vegetables				Seeds
Demonstrations under NEH component:									
39.	Crop Management	Black gram var. IPU-2-43	Low yield of local cultivars due to unscientific crop management		Demonstration on cultivation of Blackgram				Seeds, Vermicompost
40.	Crop production	Potato	Low production of local cultivars.		Demonstration on improved cultivation practices of Potato var. <i>Kufri Sinduri</i> & <i>Kufri Bahar</i>	Organic cultivation of Potato		Field day	Planting material, Vermicompost
41.	Crop Management	Garden pea	Low yield of local cultivars due to unscientific crop management		Demonstration on scientific cultivation of garden pea	Scientific cultivation of Garden Pea			Seed, fertilizer, Vermicompost



42.	Crop Management	Maize	Low yield of local cultivars and unscientific crop management		Demonstration on scientific cultivation of Maize		Scientific cultivation of maize		Seed,
Demonstrations under Directorate of Rapeseed and mustard Research									
43.	Crop Management	Mustard	Lack of knowledge on Mustard cultivation		Scientific cultivation of Short duration Mustard var. <i>NRCHB 101</i>	Scientific cultivation of Mustard			Seeds,
Demonstrations under RKVY- RAAFTAR									
44.	Crop Management	Mustard	Lack of knowledge on Mustard cultivation		Scientific cultivation of Short duration Mustard var. <i>NRCHB 101</i>	Scientific cultivation of Mustard			Seeds, Vermicompost

### 3.1 Achievements on technologies assessed and refined during 2019-20

#### A.1 Abstract of the number of technologies **assessed\*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flowers	Spices	Tuber Crops	TOTAL
<b>Varietal Evaluation</b>	1	-	2	-	-	-	-	-	-	<b>3</b>
<b>IDM</b>		-	-	-	2	-	-	-		<b>2</b>
<b>Intercropping</b>	-	-	-	-	-	-	-	-	1	<b>1</b>
<b>Organic cultivation</b>	-	-	-	-	-		-	-	-	
<b>Clothing and textile</b>	-	-	-	1	-	-	-	-	-	<b>1</b>

<b>TOTAL</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>7</b>
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\* Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.

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

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Bird	Fisheries	TOTAL
<b>Evaluation of Breeds</b>	-	2	-	-	1	-	2	<b>5</b>
<b>Nutrition Management</b>	-	-	-	-	-	-	-	-
<b>Disease of Management</b>	-	-	-	-	-	-	-	-
<b>Value Addition</b>	-	-	-	-	-	-	-	-
<b>Production and Management</b>	-	-	-	-	-	-	1	<b>1</b>
<b>Feed and Fodder</b>	-	-	-	-	-	-	-	-
<b>Small Scale income generating enterprises</b>	-	-	-	-	-	-	-	-
<b>TOTAL</b>		<b>2</b>			<b>2</b>		<b>3</b>	<b>6</b>

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

## A.5. Results of On Farm Testing

Sl. No	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)				
1	Varietal performance of Tripura Chikan Dhan	Lack of Medium duration HYV of paddy with long slender grain quality	Sali paddy  var: <i>Tripura Chikan Dhan</i>	Sali paddy	4	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below				
										Sl no.	Observations	Tripura Chikan Dhan	Bash Dhan (Check variety)
										1	Sowing Date	17-06-2019	17-06-2019
										2	Harvesting date	29-10-2019	08-11-2019
										3	Duration (Days)	135	146
										4	Plant Height (cm)	115	132
										5	Effective Tillers	8.2	9.6
										6	Spike length (cm)	16.8	18.6
										7	No. of seeds/spike	120.33	125.67
										8	100 seeds weight (g)	2.19	2.42
										9	Yield (q/ha)	37.5	38.5
										10	Gross Return (Rs/ha) @ Rs. 15.00 /kg	56250.00	57750.00
										11	Gross cost (Rs/ha)	27150.00	27150.00
										12	Net income (Rs/ha)	29100.00	30600.00
13	B:C	2.07	2.12										

2	Assesment of Blackgram variety SB-42-8	Lack of HYV Black gram with the local farmers Due to lack of late sowing black gram as incessant rain is frequently seen in normal sowing time	Blackgram variety SB-42-8	Blackgram variety <b>SB-42-8</b>	2	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below					
										<b>Sl no.</b>	<b>Observations</b>	<b>SB 42-8</b>	<b>Local check</b>	<b>IPU-2-43</b>
										1	Duration (Days)	98	103	97
										2	Plant Height (cm)	54.6	51.6	38.6
										3	No. of stems/plant	8.6	7.0	6.2
										4	No. of pods/plant	35.8	46.4	22.8
										5	No. of seeds/pod	6.6	5.8	6.6
										6	100 seeds weight (g)	4.78	2.56	4.94
										7	Yield (q/ha)	5.68	4.25	5.95
										8	Straw yield (q/ha)	20.22	13.33	16.22
										9	Gross Return (Rs/ha) @ Rs. 60.00 /kg	34080.00	25500.00	35700.00
										10	Gross cost (Rs/ha)	18250.00	15500.00	18250.00
										11	Net income (Rs/ha)	15830.00	10000.00	17450.00
12	B:C	1.87	1.53	1.96										
3	Assessment of Late sown Black gram variety <i>Beki</i> & <i>Kolong</i>	Non availability of late sown Blackgram variety	Blackgram var: <i>Beki</i> & <i>Kolong</i>	Black gram	2	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below					
										<b>Sl no.</b>	<b>Observations</b>	<b>Beki</b>	<b>Kolong</b>	<b>Local check</b>

				1	Duration (Days)	97	97	101	
				2	Plant Height (cm)	54.0	49.8	51.6	
				3	No. of stems/plant	8.2	8.6	7.0	
				4	No. of pods/plant	38.2	46.8	36.4	
				5	No. of seeds/pod	6.6	7.4	5.8	
				6	100 seeds weight (g)	4.53	4.84	2.86	
				7	Yield (q/ha)	6.85	7.05	4.50	
				8	Straw yield (q/ha)	14.16	16.80	12.12	
				9	Gross Return (Rs/ha) @ Rs. 60.00 /kg	41100.00	42300.00	27000.00	
				10	Gross cost (Rs/ha)	18250.00	18250.00	15500.00	
				11	Net income (Rs/ha)	22580.00	24050.00	11500.00	
				12	B:C	2.25	2.32	1.74	
4	Assesment of Multiple disease resistant Tomato	Considerable economic loss to the crop due to	Tomato Hybrid Var. <i>Arka Abheed</i> &	Tomato Hybrid Var. <i>Ark a</i>	3	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below

	Hybrid Var. <i>Arka Abheed &amp; Arka Rakshak</i>	BW, LB and ToLCV.  Considerable economic loss due to infestation of rust	<i>Arka Rakshak</i>	<i>Abheed &amp; Arka Rakshak</i>		Parameters	Technology		Farmers' Practice
							Arka Abheed	Arka Rakshak	
						Bacterial Wilt	Nil	5 %	18%
						ToLCV	3 %	6 %	25 %
						LB	5 %	8 %	20 %
						Yield (q/ ha)	210.00	225.00	180.00
						GR (Rs./ha)	210000.00	225000.00	180000.00
						GC (Rs./ha)	52000.00	52000.00	52000.00
						NR (Rs./ha)	158000	173000	128000
						B: C	4.04	4.33	3.46
5	Assesment of Rust resistant French Bean Var. <i>Arka Sukomal</i>	French bean rust is a regular occurring disease causes considerable economic loss to the crop	French Bean Var. <i>Arka Sukomal</i>	French Bean Var. <i>Arka Sukomal</i>	3	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below
						Parameters	Technology	Farmers' Practice	
						Incidence of rust	3 %	18 %	
						% disease reduction	500 %	-	
						Yield (q/ ha)	60.00 q/ha	50.00 q/ha	
						GR (Rs./ha)	120000.00	150000.00	
						GC (Rs./ha)	51400.00	51400.00	
						NR (Rs./ha)	68600.00	98600.00	
						B: C	2.33	2.92	
6	Assessment of performance of newly	Non availability of high yielding pig breed	Pig breed- Rani and HDK-75	Piggery	2	At present the pigs are at growing stage and average weight of the pigs is 45 kg at 5 months of age.			

	developed improved type pig breed HDK-75 for meat & piglet production	Low performance of existing local breed																									
7	Performance of Broiler Duck breed <i>White Pekin</i>	Low body weight gain in local or <i>pati</i> duck	Duck breed <i>White Pekin</i>	Duck breed <i>White Pekin</i>	12	Referred to the table below	Farmers are highly satisfied with the performance of the technology		Referred to the table below																		
						<table border="1"> <thead> <tr> <th>Parameters</th> <th>Technology (White Peking)</th> <th>Farmers' Practice</th> </tr> </thead> <tbody> <tr> <td>Average weight (Kg) at 3 months</td> <td>2.30</td> <td>0.75</td> </tr> <tr> <td>GR (Rs./ bird)</td> <td>600.00</td> <td>250.00</td> </tr> <tr> <td>GC (Rs./ bird)</td> <td>260.00</td> <td>140.00</td> </tr> <tr> <td>NR (Rs./ bird)</td> <td>340.00</td> <td>110.00</td> </tr> <tr> <td>B:C</td> <td>2.31</td> <td>1.78</td> </tr> </tbody> </table>				Parameters	Technology (White Peking)	Farmers' Practice	Average weight (Kg) at 3 months	2.30	0.75	GR (Rs./ bird)	600.00	250.00	GC (Rs./ bird)	260.00	140.00	NR (Rs./ bird)	340.00	110.00	B:C	2.31	1.78
Parameters	Technology (White Peking)	Farmers' Practice																									
Average weight (Kg) at 3 months	2.30	0.75																									
GR (Rs./ bird)	600.00	250.00																									
GC (Rs./ bird)	260.00	140.00																									
NR (Rs./ bird)	340.00	110.00																									
B:C	2.31	1.78																									
8	Performance of <i>Kadakhnath Chicken/ Kali masi</i>	Introduction of high value chicken with high nutritional	<i>Kadakhnath Chicken/ Kali masi</i>	Poultry breed <i>Kadakhnath</i>	14	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below																		

		quality		<i>Chicken / Kali masi</i>		The birds are at growing stage weighing about 1.2 – 1.40 kg per bird at the age of 5 months.						
9	Performance of Poly culture of Chital ( <i>N. Chitala</i> ) in combination with Common Carp & Moa	Low productivity due to lack of live natural feed in existing culture practices	Poly culture of Chital ( <i>N. Chitala</i> ) in combination with Common Carp & Moa	Chital ( <i>N. Chitala</i> )	2	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below			
										<b>Sl no.</b>	<b>Observations</b>	<b>Chital</b>
										1	Weight of the fingerling (g)	34.0
										2	Average Weight/Fish at harvest (g)	750.0
										3	Total fish production/pond	410 kg/0.13 ha water area (including all spp.)
										4	Chital production/pond	140 kg/0.13 ha
										5	GR (Rs./0.13 ha)	85000
										6	GC (Rs./0.13 ha)	27800
										7	NR (Rs./0.13 ha)	57200
8	B: C	3.05										
10	Performance of Amur common carp in composite fish culture	Low productivity of existing stock of common carp	Fish species var. Amur common carp	Fishery	2	Referred to the table below	Farmers are satisfied with the performance of the technology		Referred to the table below			



						Sl no.	Observations	Amur common carp	Local common carp
						1	Weight of the fingerling (g)	28	90
2	Average Weight/Fish at harvest (g)	450	550						
3	Total fish production/pond	443 kg/0.13 ha (including all spp.)	240 kg/0.13 ha (including all spp.)						
4	Amur carp production/pond	120 kg/0.13 ha	80 kg/0.13 ha						
5	GR (Rs./0.13 ha)	72000	39000						
6	GC (Rs./0.13 ha)	21200	17900						
7	NR (Rs./0.13 ha)	50800	21100						
8	B: C	3.4	2.17						
<b>11</b>	Kuchia ( <i>Monopterusuchia</i> ) culture in cemented	No proper breeding technology	Size of the tank : 20 x 18 x 5 ft Application	Fishery	3	The programme is in progress			

	tank		of lime: 22 kg/tank (11 split) Kuchia seedling @ 10 nos./sqm Feed : @ 2-3% of body weight (small fish, dry fish, MOC, broiler chicken waste product and earth worm)			
12	Intercropping inbetween Muga host plantation for better economic dividend	Un utilization of the inter space between the food plants in sericulture garden	Turmeric, Ginger, Ahina Kochu	Turmeric, Ginger, Ahina Kochu	2	The programme is in progress
13	Assessment of Blending of various natural yarn (Muga, Eri, Mulberry) towards product diversification	Low popularity eri products and lack of proper specification in blending different yarns for suitable	Blending of Muga: Eri yarn (130: 70 gm) Eri: Toss yarn (100:100 gm) : Muga:	Natural yarn (Muga, Eri, Mulberry)	1	The programme is in progress

		product development	Mulberry (100: 100 gm)  Eri: Left over muga yarn (hand spun) (100: 100gm)			
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\*\* 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 2018-19 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	Sali paddy	var. <i>Bahadur sub-1</i>	10	30	12.05
		var . <i>Ranjit sub- 1</i>	10	35	14.00
2	Rice – Toria cropping sequence	Paddy var. – Ranjit/ Shraboni/ Local cultivar  Torja Variety: TS-38	15	150	120.00
3	IPM	IPM in Paddy	10	50	30.00

4	Maize	Scientific cultivation	15	50	30.00
5	Boro Paddy	Scientific cultivation	10	45	26.00
6	Paddy - Lathyrus	Relay cropping	5	12	5.60
7	Mushroom	Oyster	15	25	-
8	Vermicompost	Vermicompost production	5	30	-
9	Poultry	Kamrupa / Vanaraja	10	75	-
10	Fodder	Setaria & Hybrid Napier	5	15	1.00
11	IFS	Fish cum Duck/Poultry	5	10	-
		Fish cum Pig	10	25	-

\* 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.**)

#### Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers / demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K

1.	Sali paddy	Crop management	Ranjit sub 1	Kharif, 2019		1.0		3	3	-	Rainfed			
2	Sali paddy	Crop management	Bahadur sub 1	Kharif, 2019		1.0	4	0	4		Rainfed			
3.	Sali paddy and Toria – TS -38	Cropping Sequence	Paddy - TTB 404, Toria – TS 38	Kharif, 2019 and Rabi 2019-20		2.0	4	6	10	-	Rainfed			
4	Sali paddy	IPM	Referred below	Kharif, 2019		1.0	2	3	5	-	Rainfed			
<p><b>Technology:</b></p> <p><b><u>Chemical control</u></b></p> <ol style="list-style-type: none"> <li>1. Seed treatment with Carbendazim @ 2.5g/kg of seed/ liter of water</li> <li>2. Nursery treatment with Carbofuran @ 1kg a.i./ha at 5 to 7 days before uprooting of seedling.</li> <li>3. Need based application of pesticides: Spraying of Monocrotophos 40EC @0.04% at 25-30 days after planting against case worm</li> </ol> <p><b><u>Cultural control</u></b></p> <ol style="list-style-type: none"> <li>1. Timely planting</li> <li>2. Optimum plant population</li> <li>3. Balanced fertilizer application as per recommendation</li> <li>4. Clean cultivation</li> <li>5. Regular pest monitoring using pheromone traps @ 10 traps/ha for YSB</li> </ol> <p><b><u>Biological control</u></b></p> <ol style="list-style-type: none"> <li>1. Six releases of <i>Trichogramma spp.</i> @ 50,000/ha on observing the moths of YSB</li> </ol> <p><b><u>ITKs</u></b></p> <p>Use of bamboo perches (T-perches) to encourage predatory birds @ 50no./ha</p>														
5	Sali Paddy (under TSP 2016-17)	Crop management	Ranjit sub 1 & Bahadur sub 1	Kharif, 2019	-	11.20	49	0	49	-	Rainfed			

6.	Maize (Under NEH component)	Crop Management	HQPM 1	Rabi 2019-20		2.00	11	4	15		Rainfed			
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### Horticultural crops

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Ginger cultivation	Organic cultivation	<i>var. Nadia</i>	Rabi 2019-20		0.21	1	2	3		Rainfed			
2.	Garden Pea (Under NEH component)	Integrated crop management	<i>var. Arkel</i>	Rabi 2019-20		7.00	26	25	51		Rainfed			
3.	Potato	Integrated	<i>Var. Kufri</i>	Rabi		4.50	50	7	57		Rainfed			

	(Under NEH component)	crop management	Bahar & Kufri Jyoti	2019-20										
4.	Potato (Under TSP 2016-17)	Integrated crop management	Var. Kufri Bahar & Kufri Jyoti	Rabi 2019-20		200.00	131	-	131		Rainfed			
5.	Vegetables cultivation (TSP 2016-17)	Integrated crop management	Crop – Garden Pea, Tomato, Cucumber, Squash	Late Rabi 2019-20		10.00	100	0	100		Rainfed			

### Oilseeds

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Toria – TS - 38 and Sali	Cropping Sequence	Toria – TS 38 Paddy - TTB 404	Rabi 2019-20 Kharif,		2.0	4	6	10	-	Rainfed			

	paddy			2019 and											
2	Sesamum (NMOO P , ATARI)	Integrated crop management	Referred below	Kharif , 2019-20		10.00	32	0	32		Rainfed				
		<b>Technology:</b> Var. Bahua bheti													
		Scientific cultivation of Sesamum (Land preparation: Fine tilth by 3-4 ploughing, Time of Sowing: July to August, Seed rate: 4Kg/ Ha, Inter culture: Thinning 20 days after sowing RD of fertilizer: N:P2O5:K : 30:20:20 Kg/ ha )													
3	Mustard (Under DRMR )	Integrated crop management	NRCHB - 101	Rabi 2019-20		10.00	12	0	12		Rainfed				
4	Mustard (Under RKVY- RAAFTAR )	Integrated crop management	NRCHB - 101	Rabi 2019-20		50.00	77	16	93		Rainfed				

### Pulses

Sl. No	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)	No. of farmers/ demonstration	Reasons for shortfall	Farming situation (Rainfed/	Status of soil (Kg/ha)
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											in	Irrigated, N P K			
											achieve	Soil type,			
											ment	altitude,			
												etc)			
					Propose	Actual	SC/S	Other	Total						
					d		T	s							
1.	Green gram	Varietal evaluation	SGC -16	Kharif 2019-20	1.0	1.0	5	0	5		Rainfed				
2	Blackgram (NFSM, ATARI 2019-20)	Integrated Nutrient Management	Referred below	Kharif , 2019-20		10.00	25	0	25		Rainfed				
<b>Technology: Var. : IPU-2-43</b> Seed coating with Rhizobium and PSB @ 150 g each per kg of seed along with 50% RD of N & P and full dose of K (RD = 10:35:10 N;P2O5: K2O)															
3	Field pea (NFSM, ATARI 2019-20)	Integrated Nutrient Management	Referred below	Rabi, 2019-20		20.00	45	5	50		Rainfed				
<b>Technology: Var. : Prakash</b> Seed coating with Rhizobium and PSB @ 1.6 kg/ ha along with 50% RD of NP and full K (RD = 10:46:10 N: P2O5: K2O) and Borax @ 10.00 kg/ha															
4	Black gram (Under	Integrated crop Management	<b>Var. IPU-2-43</b>	Kharif , 2019-		40.00	55	66	121		Rainfed				

	NEH component )	t		20										
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Fiber Crop: NIL

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.)		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Dem o.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
				Demo			Local									
1	Sali paddy (Bahadur sub 1)	Crop management	1.0	Referred below												
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)							
				H	L	A			GC**	GR**	NR**	BCR**				
			Demo	49.54	42.58	46.5			29.00	Negligible	31170	69750	38580	2.24		
Check	40.58	29.85	33		Negligible	23455	49500	26045	2.11							
2	Sali	Crop	1.0	Referred below												

	paddy (Ranjit sub 1)	managem ent		Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Demo</b>	51.3	41.8	43.3	<b>23.78</b>	Negligible	30140.00	64950.00	34810.00	2.15
				<b>Check</b>	40.58	29.85	33.00		Negligible	23455.00	49440.00	25985.00	2.09
<b>3</b>	Sali paddy (TTB 404)and Toria – (TS - 38)	Cropp ing Seque nce	2.0	Referred below									
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Demo</b>	48.5	39	43.1	Paddy : 34.68 Torია: 18.38	Negligible	31450	64650	33200	2.06
					10.6	4.5	7.6			11750	22800	11050	1.94
				<b>Check</b>	-	-	32		Negligible	22855	48000	25145	2.10
-	-	6.42			12000	19260	7260		1.61				
<b>4</b>	Sali padd	IP	1.0	Referred below									

y	M			Stem borer infestation	Leaf folder infestation	Gandhi bug infestation	Yield (q/ha)	G.C	G.R	N.R.	B.C		
				<b>Demo</b>	1%	3%	0.5%	45	32400.00	74250.00	41850.00	2.29	
				<b>Check</b>	4%	7%	3.0%	42	32150.00	69300.00	37150.00	2.15	
5	Sali padd y var. Bahadur sub 1 & Ranjit Sub 1 (TSP 2019-20)	ICM	11.20	Referred below									
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Bahadur sub 1</b>	61.4	48.0	52.0	14.84	Negligible	31170.00	85800.00	54360.00	2.75
				<b>Ranjit sub 1</b>	60.54	47.8	50.54		Negligible	31170.00	83391.00	53251.00	2.67
				<b>Check</b>	-	-	41.2		Negligible	23455.00	49440.00	25985.00	2.09
6	Maize (Under NEH component)	ICM	2.00	Ongoing (Cob maturing stage)									

7	Sesamum (NMOOP, ATARI)	ICM	10.0	Referred below								
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
				H	L	A			GC**	GR**	NR**	BCR**
<b>Demo</b>	5.02	3.37	4.67	16.75	Wilt and shoot Webber	11750.00	33690.00	20940.00	2.87			
<b>Check</b>	-	-	4.00		Wilt and shoot Webber	11250.00	28000.00	16750.00	2.49			

8	Mustard (Under DRM R)	ICM	10.00	Referred below								
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
				H	L	A			GC**	GR**	NR**	BCR**
<b>Demo</b>	9.35	8.87	9.11	-4.90	Negligible	21152.00	38500.31	17348.31	1.82			
<b>Check (TS 36)</b>	9.80	9.36	9.58		Negligible	18500.00	40454.38	21954.38	2.19			

9	Mustard (Under RAAF TAR)	IC M	50.00	Referred below									
					Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
					H	L	A			GC**	GR**	NR**	BCR**
				Demo	10.58	7.85	9.20	-5.05	Negligible	21152.00	38870.00	17718.00	1.83
Check	9.80	9.58	9.69	Negligible	18500.00	40930.00	22430.00		2.21				
10	Green gram	Varietal evaluation	1.00	Referred below									
					Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
					H	L	A			GC**	GR**	NR**	BCR**
				Demo	6.50	3.98	4.70	10.58	Negligible	19250.00	28200.00	8950.00	1.46
Check	-	-	4.25	Negligible	19250.00	25500.00	6250.00		1.32				
11	Black gram	IN	10.0	Referred below									

	m (Under NFS M, ATARI)	M		Yield (q/ha)						% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
				H	L	A	GC**	GR**	NR**			BCR**			
				<b>Demo</b>	6.60	3.85	5.85	11.42	Negligible	18250.00	35100.00	16850.00	1.92		
				<b>Check</b>	-	-	5.25		Negligible	17800.00	31500.00	13700.00	1.7		
12	Blakgram (Under NEH component)	ICM	40.0	Referred below											
				Yield (q/ha)						% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)			
				H	L	A	GC**	GR**	NR**			BCR**			
				<b>Demo</b>	7.5	6.5	7.3	17.74	Negligible	12350	36500	24150	2.96		
<b>Check</b>	-	-	6.2		Negligible	11875	31000	19125	2.61						
13	Field pea	IN	20.0	Referred below											

	(NFS M-ATA RI)	M		Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Demo</b>	15.2	10.80	13.00	58.53	Negligible	17450.00	39470.00	22020.00	2.26
				<b>Check</b>			8.20		Negligible	17100.00	26200.00	9100.00	1.53
14	Garden Pea (Under NEH component)	ICM	7.00	Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Demo</b>	91.00	82.00	89.00	-	Fruit & Shoot Borer	84600.00	267000.00	182400.00	3.16
				<b>Check</b>	No local Check available								
15	Potato (Under NEH component)	ICM	4.50	Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	



				<b>Demo</b>	245.00	190.00	230.00	31.42	-	62100.00	230000.00	167900.00	3.70
				<b>Check</b>	-	-	175.00		Late blight	60000.00	210000.00	150000.00	3.50
16	Potato (Under TSP 2016-17)	ICM	200.00										
				Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)				
				H	L	A			GC**	GR**	NR**	BCR**	
				<b>Demo</b>	238.56	210.25	227.00	29.71	Negligible	62100.00	227000.00	164900.00	3.65
<b>Check</b>			175.00		Late blight	60000.00	210000.00	150000.00	3.50				
17	Pineapple	Mulching	0.13	In progress (Fruit bearing stage)									
18	Ginger	Organic cultivation	0.21	The programme started during March 2019									

19	Vegetables (TSP 2016-17)	ICM	10.00	Yield (q/ha)			% increase in Avg. yield	Data on parameters other than yield, e.g., disease incidence, pest incidence etc.	Economics (Rs./ha.)						
				H	L	A			GC**	GR**	NR**	BCR**			
				Tomato	Harvesting is in progress										
				Cucumber	Harvesting is in progress										
				Squash	Harvesting is in progress										
Garden Pea	94.00	75.00	89.00	-	Fruit & Shoot Borer	84600.00	267000.00	182400.00	3.16						

\*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.	Activity	No. of activities organized	Date	Number of participants	Remark
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No.				Gen	SC/ST	Total	s
1	Field days	IPM in Sali paddy	30.11.2019	18	0	18	18
2		Year round production of Oyster mushroom	22.01.2020	0	14	14	14
3		Fodder production through cultivating of Oat grass (var. JHO-822) during Rabi season	30.01.2020	24	0	24	24
4		Field day on Black gram	28.11.2019	0	26	26	26
5		Field day on Sesame	01.12.2019	13	9	22	22
6		INM in Pea	26.02.2020	0	34	34	34
7		Scientific cultivation of potato	29.02.2020	22	0	22	22
1	Farmers Training	Certified seed production of Sali rice	01.07.2019 - 05.07.2019	29	0	29	29
2		Improved cultivation practices of Ginger and turmeric	19.03.2020	0	18	18	18
3		Care and management of poultry	07.12.2019	21	0	21	21
4		Care and management of poultry	24.02.2020	0	21	21	21
5		Livestock based Integrated farming system	12.03.2020	14	14	28	28
6		Rearing of improved breed and rearing of cattle and management	21.10.2019 - 26.10.2019	16	12	28	28
7		Fish seed production and nursery pond management technology	29.09.2019	36	0	36	36
8		Fish rearing and management	09.09.2019 - 14.09.2019	12	16	28	28
9		Composite fish culture	06.01.2020 -	3	40	43	43

		10.01.2020				
10	Scientific cultivation of Oyster mushroom	04.03.2020 - 09.03.2020	13	5	18	18
11	Value addition of textile material through tie and dye.	22.11.2019 - 23.11.2019	0	16	16	16
12	Post-harvest processing of Oyster mushroom	31.12.2019	2	20	22	22
13	Scientific cultivation of Black gram	04.11.2019	0	22	22	22
14	Training on organic farming	01.10.2019	30	3	33	33
15	Organic cultivation of potato	21.10.2019	23	2	25	25
16	Scientific cultivation of Mustard	26.02.2020	0	26	26	26
17	Scientific cultivation of Garden pea	11.01.2020	0	25	25	25
18	Scientific cultivation of potato	07.11.2019	0	23	23	23
19	Scientific cultivation of potato	03.12.2019	24	0	24	24
20	INM in pea	01.11.2020	0	17	17	17
21	Scientific cultivation of Mustard	25.12.2019	0	23	23	23
22	Scientific cultivation of Mustard	07.01.2020	0	25	25	25
<b>Total</b>			<b>300</b>	<b>411</b>	<b>711</b>	<b>711</b>

e. **Details of FLD on Enterprises**

(i) Farm Implements: Nil

\* Field efficiency, labour saving etc.

\*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.

e. Details of FLD on Enterprises

(i) Farm Implements: Nil

\* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	The matic 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 **	B C R **	G C	GR	N R	B C R	
1	Fodder	Fodder production &	Hybrid Napier var.	8	-	0.75 ha	Fodder produ	-	-			Demo				Check				
										GC		35550 .00				No local check, no				

		quality enhancement	CO 5				ction				<b>GR</b>	1,08,000.00	local variety is cultivated					
											<b>NR</b>	72,450.00						
											<b>BCR</b>	3.04						
<b>2</b>	Fodder	Fodder production & quality enhancement	Oat var. JHO 822	15	-	1.50 ha	Fodder production	-	-			<b>Demo</b>	<b>Check</b>					
											<b>GC</b>	21600.00	No local check, no local variety is cultivated					
											<b>GR</b>	42,900.00						
											<b>NR</b>	21,300.00						
											<b>BCR</b>	2.02						
<b>3</b>	Poultry	Meat and egg production	Breed - <i>Vanaraja</i>	66	66 units	700 birds	Parameters	Demo	Check	% change in parameters	Demo. (Egg prod./meat prod.)				Check			
											GC	GR	NR	B:C	GC	GR	NR	B:C
							Annual Egg production	170 nos.	70 nos.	150 % increase	605/135	1750/425	1145/290	2.89/3.15	310/80	700/200	390/120	2.25/2.50
							Egg weight	52 gm	41 gm	26 % increase								
							Mature hen weight	2.0 kg	1.6 kg	25.00 % increase								
							Age at the point of lay egg	190 days	240 days	21 % decrease								

4	Poultry	Meat and egg production	Breed - <i>Kamrupa</i>	24	24 units	300 chicks	Parameters	Demo.	Check	%changes in para	Demo. (Egg prod./meat prod.)				Check			
											GC	GR	NR	B:C	GC	GR	NR	B:C
							Annual Egg production	185 nos.	70 nos.	164 % increased	605/135	1850/450	1245/315	2.05/3.33	310/80	700/200	390/120	2.25/2.50
						Egg weight	47 gm	41 gm	15 % increased									
						Mature hen weight	1.8 kg	1.6 kg	12.50 % increased									
						Age at the point of lay egg	175 days	240 days	27 % decreased									
5	Poultry	Meat and egg production	Breed - <i>Quail</i>	9	9 units	360 birds	Parameters	Demo.	Check	%changes in para	Demo. (Egg prod./meat prod.)				Check			
											GC	GR	NR	B:C	GC	GR	NR	B:C
							Monthly egg production	14 nos.	-	-	159/42	450/75	291/33	2.85/1.79	-	-	-	-
						Mature hen weight	0.25 kg	-	-									

6	Poultry	Meat and egg production	Breed – <i>Rainbow rooster</i>	20	20 units	400 chicks	Mature hen wt., egg production, Age at lay of 1 <sup>st</sup> egg	Programme is in progress, Birds are in growing stage																																											
7	Dairy	Milk production and reproductive performance	Mineral supplementation - AAU VET MIN	6	-	18 cows		<table border="1"> <thead> <tr> <th rowspan="2">Parameters</th> <th rowspan="2">Demo.</th> <th rowspan="2">Check</th> <th rowspan="2">% change s in parameter</th> <th colspan="4">Demo.</th> <th colspan="4">Check</th> </tr> <tr> <th>GC</th> <th>GR</th> <th>NR</th> <th>B:C</th> <th>GC</th> <th>GR</th> <th>NR</th> <th>B:C</th> </tr> </thead> <tbody> <tr> <td>Av. Milk prod . Per cow/day</td> <td>4.101</td> <td>3.501</td> <td>17 % increased</td> <td>53.00</td> <td>246.00</td> <td>193.00</td> <td>4.64</td> <td>50</td> <td>210</td> <td>160</td> <td>4.20</td> </tr> </tbody> </table>												Parameters	Demo.	Check	% change s in parameter	Demo.				Check				GC	GR	NR	B:C	GC	GR	NR	B:C	Av. Milk prod . Per cow/day	4.101	3.501	17 % increased	53.00	246.00	193.00	4.64	50	210	160	4.20
Parameters	Demo.	Check	% change s in parameter	Demo.				Check																																											
				GC	GR	NR	B:C	GC	GR	NR	B:C																																								
Av. Milk prod . Per cow/day	4.101	3.501	17 % increased	53.00	246.00	193.00	4.64	50	210	160	4.20																																								

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

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

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



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

## (iii) Fisheries:

Sl. No.	Category, e.g. (Common carp, ornamental fish etc.)	The matric 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	GC**	GR**	NR**	BC R**	GC	GR	
1	Rohu, Bahu, Mrika, G.carp, S. carp & C. carp	Advance fingerlings, Fingerlings & Yearlings production	Year round fish seed production	2	2	Fish seed -1100 nos.	Production (in nos.)		% changes in parameters	Demo.				Check				
							Demo.	Check		GC	GR	NR	B:C	GC	GR	NR	B:C	
							Ad.F=11000 0 nos., F= 60000 nos. & Y=22000nos	Ad.F=9000 0 nos., F= 22000 nos. & Y=6600nos	233.3	2650 0	11000 0	8350 0	4.1 5	1560 0	3280 0	17 20 0	2.1	
*Ad. F= Advance fingerling, *F= Fingerling & *Y= Yearling																		

2	Fish cum Poultry	IFS	Integrat ed Fish cum Poultry farming	2	2	Fish seed – 1100 nos. Chicks – 45 nos.											
							Production (in q)		% changes in parameters	Demo.				Check			
							Demo.	Check		GC	GR	NR	B:C	GC	GR	NR	B:C
Fish production: 438 kg/0.13 ha, Meat production: 104 kg/unit, Egg production: 465 nos./unit	Fish production: 198 kg/0.13 ha, Meat production: 32 kg/unit	121.2	22500	85600	63100	3.8	19400	40370	20970	2.08							

\*\* 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	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	C	GC*	GR	N	BC	G	GR	N	B		
1	Kitchen Garden	Value additi	Establishment of	3	3				Demo	C	GC*	GR	N	BC	G	GR	N	B		
										ck	*	**	**	*	C		R	C	R	
										The demonstration was conducted at Nilakh Torani Pathar including two families and the Primary School of the village. Average fresh yield of French bean 16.2 kg, Leafy vegetables-										

		on	Nutritional Security through small scale Kitchen Garden				11.0 kg, Okra-8.50 kg, Spinach- 3.0 kg, Coriander leaf- 1.0 kg, Cow pea- 12.0 kg, Tomato- 11.0 kg, Chilli- 1.5 kg and Cucumber- 22.0 kg were harvested from each unit. The vegetables produced in the kitchen garden were consumed by the family members which may add to their nutritional security.												
2	Natural Dye	Value addition	Popularization of natural dye towards value addition and diversification of textile products	3	3		Commonly used cotton material like house linen and other furniture cover were dyed with natural dye to enhance its beauty and appeal. The dyeing was found simple, cost effective and end products were highly accepted by the farm women												
3	Mushroom	Small Scale income genera	Scientific cultivation of oyster	25	25	<table border="1"> <thead> <tr> <th>Month</th> <th>Yield/ kg / bed</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>1.45</td> </tr> <tr> <td>November</td> <td>1.50</td> </tr> <tr> <td>December</td> <td>1.75</td> </tr> </tbody> </table>	Month	Yield/ kg / bed	October	1.45	November	1.50	December	1.75	58.00	300.00	24	5.1	Local check not available
Month	Yield/ kg / bed																		
October	1.45																		
November	1.50																		
December	1.75																		

		ting enterp rises	mushro om			January	2.00						
						February	2.30						
						March	1.75						
4	Apiary	Small Scal incom e genera ting enterp rises	Demon stration on Apicult ure	15	15	Programme is in progress							

**\*\* 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**

**f. Performance of FLD on Crop Hybrids Nil**

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

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

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

### 3.3. Achievements on Training

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

**(\*Sp. On means On**

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
	Of	S P O f f *	To tal	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off *	Off	Sp Off *	Off	S P O f f *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	
<b>I. Crop Production</b>																						
Certified seed production of Sali rice	2	0	2	30	0	0	0	30	0	20	0	0	0	20	0	50	0	0	0	50	0	50
Scientific cultivation of Black gram	1	0	1	0	0	0	0	0	0	22	0	0	0	22	0	22	0	0	0	22	0	22
Scientific cultivation of Mustard	3	0	3	0	0	0	0	0	0	40	0	34	0	74	0	40	0	34	0	74	0	74
Organic cultivation of potato	2	0	2	52	0	0	0	52	0	6	0	0	0	6	0	58	0	0	0	58	0	58
Scientific cultivation of Garden pea	1	0	1	0	0	0	0	0	0	25	0	0	0	25	0	25	0	0	0	25	0	25
Scientific cultivation of potato	2	0	2	25	0	0	0	25	0	22	0	0	0	22	0	47	0	0	0	47	0	47
<b>Total</b>	<b>11</b>	<b>0</b>	<b>11</b>	<b>107</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>0</b>	<b>135</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>169</b>	<b>0</b>	<b>242</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>276</b>	<b>0</b>	<b>276</b>

<b>II. Horticulture</b>																							
<b>a) Vegetable Crops</b>																							
<b>b) Fruits</b>																							
<b>c) Ornamental Plants</b>																							
<b>d) Plantation crops</b>																							
<b>e) Tuber crops</b>																							
Improve cultivation practices of Colocasia	1	0	1	0	0	0	0	0	0	0	7	0	14	0	21	0	7	0	14	0	21	0	21
<b>f) Spices</b>																							
Improve cultivation practices of Ginger & Turmeric	1	0	1	0	0	0	0	0	0	0	7	0	11	0	18	0	7	0	11	0	18	0	18
<b>Total</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>39</b>
<b>g) Medicinal and Aromatic Plants</b>																							
<b>III. Soil Health and Fertility Management: Nil</b>																							
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Azolla production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs/vermi-compost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

production																						
<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>
<b>IV. Livestock Production and Management</b>																						
Piggery Management	6	0	6	5	0	33	0	38	0	33	0	77	0	110	0	38	0	110	0	148	0	148
Poultry Management	3	0	3	14	0	60	0	74	0	0	0	0	0	0	0	14	0	60	0	74	0	74
<b>Total</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>19</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>112</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>110</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>170</b>	<b>0</b>	<b>222</b>	<b>0</b>	<b>222</b>
<b>V. Fisheries Science</b>																						
Pond management	5	0	5	21	0	8	0	26	0	86	0	20	0	106	0	110	0	28	0	138	0	138
Integrated Fish Farming	2	0	2	25	0	9	0	34	0	19	0	0	0	19	0	44	0	9	0	53	0	53
Fish seed production	1	0	1	18	0	18	0	36	0	0	0	0	0	0	0	18	0	18	0	36	0	36
<b>Total</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>64</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>96</b>	<b>0</b>	<b>105</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>125</b>	<b>0</b>	<b>172</b>	<b>0</b>	<b>55</b>	<b>0</b>	<b>227</b>	<b>0</b>	<b>227</b>
<b>VI. Home Science/Women empowerment</b>																						
Rural Craft	1	0	1	0	0	5	0	5	0	0	0	10	0	10	0	0	0	15	0	15	0	15
Nutrition security	2	0	2	0	0	29	0	29	0	0	0	22	0	22	0	0	0	53	0	53	0	53
Women and child care	1	0	1	0	0	17	0	17	0	0	0	3	0	3	0	0	0	20	0	20	0	20
Drudgery reduction	1	0	1	0	0	24	0	24	0	0	0	4	0	4	0	0	0	28	0	28	0	28
Consumer education	1	0	1	0	0	22	0	22	0	0	0	3	0	3	0	0	0	27	0	27	0	27

Value addition	1	0	1	0	0	2	0	2	0	3	0	17	0	20	0	3	0	19	0	22	0	22
<b>Total</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>62</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>162</b>	<b>0</b>	<b>165</b>	<b>0</b>	<b>165</b>
<b>VII. Agril. Engineering: Nil</b>																						
<b>VIII. Plant Protection</b>																						
Integrated Pest Management	3	0	3	19	0	0	0	19	0	32	0	18	0	50	0	51	0	18	0	69	0	69
Mushroom Production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Disease Management	1	0	1	0	0	6	0	6	0	19	0	0	0	19	0	19	0	6	0	25	0	25
Post-harvest management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INM in pea	1	0	1	0	0	0	0	0	0	11	0	6	0	17	0	11	0	6	0	17	0	17
<b>Total</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>19</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>62</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>86</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>111</b>	<b>0</b>	<b>111</b>
<b>IX Production of Inputs at site: Nil</b>																						
<b>X Capacity Building and Group Dynamics</b>																						
<b>XI. Agro-forestry: Nil</b>																						
<b>XII. Sericulture: Nil</b>																						
<b>XIII. Information and Communication Technology</b>																						
<b>Grand Total</b>	<b>42</b>	<b>0</b>	<b>42</b>	<b>209</b>	<b>0</b>	<b>233</b>	<b>0</b>	<b>439</b>	<b>0</b>	<b>352</b>	<b>0</b>	<b>239</b>	<b>0</b>	<b>591</b>	<b>0</b>	<b>564</b>	<b>0</b>	<b>476</b>	<b>0</b>	<b>1040</b>	<b>0</b>	<b>1040</b>



**B) RURAL YOUTH****3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes: Nil**

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

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

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
	Of f	Sp Of f	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Off	S P O ff *	Off	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	
Organic vegetables production	1	0	1	20	0	3	0	23	0	0	0	0	0	0	0	20	0	3	0	23	0	23
IFS	1	0	1	6	0	37	0	43	0	12	0	6	0	18	0	18	0	43	0	61	0	61
Value addition	1	0	1	0	0	0	0	0	0	0	0	16	0	16	0	0	0	16	0	16	0	16
Poultry management	2	0	2	0	0	2	0	2	0	19	0	35	0	54	0	19	0	37	0	56	0	56

Certified seed production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>26</b>	<b>0</b>	<b>42</b>	<b>0</b>	<b>68</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>57</b>	<b>0</b>	<b>88</b>	<b>0</b>	<b>57</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>156</b>	<b>0</b>	<b>156</b>

**C. Extension Personnel****3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes: Nil**

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

**3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes**

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

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
	Of f	Sp Of f*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Off	S P O ff *	Off	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	
Nutritional security	2	0	2	0	0	26	0	26	0	0	0	16	0	16	0	0	0	42	0	42	0	42

Agro based income generating	2	0	2	0	0	35	0	35	0	0	0	2	0	2	0	0	0	37	0	37	0	37
Biological control	1	0	1	10	0	0	0	10	0	16	0	0	0	16	0	26	0	0	0	26	0	26
IFS	1	0	1	0	0	14	0	14	0	0	0	14	0	14	0	0	0	28	0	28	0	28
Pond management	1	0	1	0	0	14	0	14	0	0	0	13	0	13	0	0	0	27	0	27	0	27
<b>TOTAL</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>10</b>	<b>0</b>	<b>89</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>134</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>160</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: Nil**

**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
PBG	ICM	Certified seed production of	01.07.2019-05.07.2019	5	Nilakh Misamari	<b>Farmer &amp; Farm women</b>	29	0	29	0	0	0	29	0	29

		Sali rice			chapori										
PBG	ICM	Certified seed production of Sali rice	06.07.2019-13.07.2019	5	Somkong, Simen-chapori	<b>Farmer &amp; Farm women</b>	1	0	1	20	0	20	21	0	21
PBG	ICM	Scientific cultivation of Mustard	25.12.2019	1	Ratuwa, Gogamukh	<b>Farmer &amp; Farm women</b>	0	0	0	12	11	23	12	11	23
PBG	ICM	Scientific cultivation of Mustard	07.01.2020	1	Tongani, Majgaon	<b>Farmer &amp; Farm women</b>	0	0	0	8	17	25	8	17	25
PBG	ICM	Scientific cultivation of Black gram	04.11.2019	1	Abhoipur, Gogamukh	<b>Farmer &amp; Farm women</b>	0	0	0	22	0	22	22	0	22
PBG	ICM	Scientific cultivation of mustard	26.02.2020	1	Jamukoni, Dhemaji	<b>Farmer &amp; Farm women</b>	0	0	0	9	17	26	9	17	26
PBG	ICM	Organic farming	01.10.2019	1	Kuwaphola	<b>Farmer &amp; Farm women</b>	30	0	30	3	0	3	33	0	33
PBG	ICM	Organic cultivation of potato	21.10.2019	1	Kuwaphola	<b>Farmer &amp; Farm women</b>	22	0	22	3	0	3	25	0	25
PBG	ICM	Scientific cultivation of Garden pea	11.01.2020	1	Jatia chapori	<b>Farmer &amp; Farm women</b>	0	0	0	25	0	25	25	0	25
PBG	ICM	Scientific cultivation of potato	07.11.2019	1	Kebaranga	<b>Farmer &amp; Farm women</b>	25	0	25	22	0	22	47	0	47
PBG	ICM	Scientific cultivation of potato	03.12.019	1	Kuwaphola	<b>Farmer &amp; Farm women</b>	27	0	27	16	0	16	43	0	43
Horticulture	Nutritional security	Kitchen gardening to promote nutrition security in households	22.02.2020	1	Silapathar	<b>Extension Personnel</b>	0	7	7	0	9	9	0	16	16

Horticulture	ICM	Improve cultivation practices of Colocasia	10.03.2020	1	Simen chapori	<b>Farmer &amp; Farm women</b>	0	0	0	7	14	21	7	14	21
Horticulture	ICM	Improve cultivation practices of Ginger & Turmeric	19.03.2020	1	Sissiborgaon	<b>Farmer &amp; Farm women</b>	0	0	0	21	13	34	21	13	34
Horticulture	Organic vegetables production	Production technology of Organic vegetables	20.03.2020-24.03.2020	1	Sripani	<b>Farmer &amp; Rural youth</b>	20	3	23	0	0	0	20	3	23
Animal Science	Piggery management	Care and management of pigs	08.11.2019	1	Samkong	<b>Farmer &amp; Farm women</b>	0	0	0	23	0	23	23	0	23
Animal Science	Piggery management	Care and management of pigs	09.11.2019	1	Kebanga	<b>Farmer &amp; Farm women</b>	0	0	0	0	25	25	0	25	25
Animal Science	Piggery management	Care and management of pigs	14.11.2019	1	Kulamua	<b>Farmer &amp; Farm women</b>	0	0	0	0	21	21	0	21	21
Animal Science	Poultry management	Care and management of poultry	15.11.2019	1	Majgaon	<b>Farmer &amp; Farm women</b>	0	26	26	0	0	0	0	26	26
Animal Science	Piggery management	Care and management of pigs	06.12.2019	1	Jonakinagar	<b>Farmer &amp; Farm women</b>	0	0	0	0	24	24	0	24	24
Animal Science	Poultry management	Care and management of poultry	07.12.2019	1	Borpathar	<b>Farmer &amp; Farm women</b>	0	21	21	0	0	0	0	21	21
Animal Science	Livestock management	Livestock based Integrated Farming System	21.12.2019-27.12.2019	5	Simen chapori	<b>Farmer &amp; Rural youth</b>	0	0	0	10	14	24	10	14	24

	ment														
Animal Science	Poultry management	Care and management of poultry	21.02.2020	1	Sili Asomiya	<b>Farmer &amp; Farm women</b>	14	13	27	0	0	0	14	13	27
Animal Science	Poultry management	Care and management of poultry	24.02.2020	1	Jengrai, Sripani	<b>Farmer &amp; Rural youth</b>	0	0	0	14	7	21	14	7	21
Animal Science	Piggery management	Care and management of pigs	28.02.2020	1	Betanipam	<b>Farmer &amp; Farm women</b>	1	27	28	0	0	0	1	27	28
Animal Science	Piggery management	Care and management of pigs	05.03.2020	1	Napaam Kuli	<b>Farmer &amp; Farm women</b>	4	6	10	10	7	17	14	13	27
Animal Science	Livestock management	Livestock based Integrated Farming System	12.03.2020	1	DRDA office, Dhemaji	<b>Extension Personnel</b>	0	14	14	0	14	14	0	28	28
Animal Science	Livestock management	Rearing of improved breed and rearing of cattle & management.	21.10.2019-26.10.2019	5	Training hall, CRCC, Silapathar	<b>Farmer &amp; Rural youth</b>	16	0	16	12	0	12	28	0	28
Fisheries Science	Pond management	Scientific culture practices of indigenous ornamental fish species	19.08.2019	1	Napaam Kuli, Simenmukh	<b>Farmer &amp; Farm women</b>	3	0	3	23	0	23	26	0	26
Fisheries Science	Fish seed production	Fish seed production and nursery pond management technology	29.09.2019	1	Bordoloni	<b>Farmer &amp; Farm women</b>	18	18	36	0	0	0	18	18	36
Fisheries Science	IFF	Integrated fish farming	30.09.2019-01.10.2019	2	Mormuria Deorigaon	<b>Rural youth</b>	6	37	43	12	6	18	18	43	61

Fisheries Science	Pond management	Scientific culture practices of indigenous ornamental fish species	14.02.2020	1	DRDA training hall, Dhemaji	<b>Extension Personnel</b>	0	14	14	0	13	13	0	27	27
Fisheries Science	IFF	Integrated fish farming	15.02.2020-17.02.2020	2	Aktai, Balijan	<b>Farmer &amp; Farm women</b>	25	9	34	0	0	0	25	9	34
Fisheries Science	IFF	Integrated fish farming	24.02.2020-25.02.2020	2	Chekai, Majgaon	<b>Farmer &amp; Farm women</b>	0	0	0	19	0	19	19	0	19
Fisheries Science	Pond management	Scientific culture practices of indigenous ornamental fish species	16.03.2020	1	Jatia Chapori	<b>Farmer &amp; Farm women</b>	0	0	0	13	11	24	13	11	24
Fisheries Science	Pond management	Fish pond management and health care	17.03.2020	1	Kulapathar Kachari Gaon	<b>Farmer &amp; Rural youth</b>	0	2	2	5	28	33	5	30	35
Fisheries Science	Pond management	Fish pond management and health care	19.03.2020	1	Galli, Borbali	<b>Farmer &amp; Farm women</b>	0	0	0	14	1	15	14	1	15
Fisheries Science	Pond management	Fish rearing and management	09.09.2019-14.09.2019	5	DFDO office, Dhemaji	<b>Farmer &amp; Farm women</b>	11	1	12	12	4	16	23	5	28
Fisheries Science	Pond management	Composite fish culture	06.01.2020-10.01.2020	5	DRDA training hall, Dhemaji	<b>Farmer &amp; Farm women</b>	2	0	2	38	3	41	40	3	43
Fisheries Science	Pond management	Composite fish culture	27.01.2020-31.01.2020	5	DRDA training hall, Dhemaji	<b>Farmer &amp; Farm women</b>	12	6	18	7	2	9	19	8	27
Plant protection	IPM in Toria	IPM in Toria	26.12.2019	1	Rotuwa, Gogamukh	<b>Farmer &amp; Farm women</b>	1	0	1	5	18	23	6	18	24
Plant	IPM &	Integrated	12.01.2020	1	Jatia	<b>Farmer &amp;</b>	0	0	0	19	6	25	19	6	25

protection	IDM	disease & pest management			chapori	<b>Farm women</b>									
Plant protection	IPM in Boro paddy	IPM in Boro paddy cultivation	29.01.2020	1	Kachinath, Muktiar	<b>Farmer &amp; Farm women</b>	6	0	6	19	0	19	25	0	25
Plant protection	Mushroom production	Scientific cultivation of Oyster mushroom	04.03.2020-09.03.2020	5	Khonamukh, Silapathar	<b>Farmer &amp; Rural youth</b>	0	13	13	0	5	5	0	18	18
Plant protection	Organic farming	Organic farming in special reference to plant protection	23.03.2020	1	Dhemaji	<b>Extension Personnel</b>	8	4	12	6	2	8	14	6	20
Plant protection	INM	INM in pea	01.11.2019	1	Jatia chapori	<b>Farmer &amp; Rural youth</b>	0	0	0	11	6	17	11	6	17
Community Science	Nutritional security	Household nutrition security by kitchen gardening	22.10.2019	1	Majgaon, Sissiborgaon	<b>Farmer &amp; Farm women</b>	0	23	23	0	0	0	0	23	23
Community Science	Value addition	Vocational training on fruit processing	20.09.2019-26.09.2019	5	Nilakhtarani pathar	<b>Farmer &amp; Rural youth</b>	0	18	18	0	0	0	0	18	18
Community Science	Value addition	Value addition of textile material through tie & dye	22.11.2019-23.11.2019	2	Silapathar	<b>Farmer &amp; Rural youth</b>	0	0	0	0	16	16	0	16	16
Community Science	Value addition	Post-harvest processing of Oyster mushroom	31.12.2019	1	Jalakiasuti	<b>Farmer &amp; Rural youth</b>	0	2	2	3	17	20	3	19	22
Community Science	Textile dyeing	Vocational training on textile dyeing	25.05.2019-29.05.2019	5	Sub-centre, Silapathar	<b>Farmer &amp; Rural youth</b>	0	1	1	0	16	16	0	17	17
Community Science	Nutritional	Nutritional support during	11.03.2020	1	Bhoirabpur	<b>Extension Personnel</b>	0	19	19	0	7	7	0	26	26



	security	pregnancy and lactation													
Community Science	Income generation	Agro based income generation activities for SHG's & VO's	12.03.2020	1	Dhemaji	<b>Farmer &amp; Farm women</b>	0	24	24	0	10	10	0	34	34
Community Science	Income generation	Agro based income generation activities for SHG's & VO's	13.03.2020	1	Sissiborgaon	<b>Farmer &amp; Farm women</b>	0	11	11	0	0	0	0	11	11
Community Science	Nutritional security	Household nutrition security by kitchen gardening	14.03.2020	1	Simen-chapori	<b>Farmer &amp; Farm women</b>	0	24	24	0	4	4	0	28	28
Community Science	Child care	Basics of child development and early childhood care	17.03.2020	1	Dhemaji	<b>Farmer &amp; Farm women</b>	0	17	17	0	3	3	0	20	20
Community Science	Consumer education	Consumer education and its basics	18.03.2020	1	Malinipur	<b>Farmer &amp; Farm women</b>	0	22	22	0	5	5	0	27	27
Community Science	Income generation	Carpet making as income generating activities for rural youth and farm women	19.03.2020-24.03.2020	5	Sripani	<b>Farmer &amp; Rural youth</b>	0	5	5	0	10	10	0	15	15
<b>Total</b>							<b>281</b>	<b>387</b>	<b>668</b>	<b>443</b>	<b>386</b>	<b>829</b>	<b>724</b>	<b>773</b>	<b>1497</b>

**(D) Vocational training programmes for Rural Youth**

Crop / Enterprise	Date (From – To)	Duration (days)	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)	
					General			SC/ST			Total			Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise		
					M	F	T	M	F	T	M	F	T						

IFS	21.12.2019 - 22.12.2019, 24.12.2019 - 26.12.2019 & 27.12.2019	5	IFS	Livestock based Integrated Farming System	0	0	0	23	2	25	23	2	25	IFS		Self employed		
Mushroom	04.03.2019- 09.03.2019	5	Value addition	Scientific cultivation of Oyster mushroom	0	23	23	0	2	2	25	0	25	Value addition		Self employed		
Textile	25.05.2019 - 29.05.2019	5	Value addition	Vocational training on Textile dyeing	0	1	1	0	16	16	0	17	17	Value addition		Self employed		
Fruit processing	20.09.2019 - 26.09.2019	5	Value addition	Vocational training on Fruit processing	0	18	18	0	0	0	0	18	18	Food preservation		Self employed		
Pond management	09.09.2019 14.09.2019	5	Fish rearing	Fish rearing and management	10	1	11	12	5	17	22	6	28	Fish rearing		Self employed		

Livestock management	21.10.2019 - 26.10.2019	5	Improved breed of livestock management	Rearing of improved breed and rearing of Cattle & management	16	0	16	12	0	12	28	0	28	Livestock management	Self employed			
<b>Total</b>		<b>30</b>			<b>26</b>	<b>43</b>	<b>69</b>	<b>47</b>	<b>25</b>	<b>72</b>	<b>98</b>	<b>43</b>	<b>141</b>					

\*training title should specify the major technology /skill transferred

**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	-	-	1745	536	108	644	904	197	1101	-	-	-	1450	295	1745
2.	Diagnostic visit	-	-	85	28	-	28	52	5	57	-	-	-	80	5	85

3.	Field day	INM in pea	01.11.2019	10	0	0	0	11	6	17	0	0	0	11	6	17		
		Scientific cultivation of Black gram	28.11.2019		20	6	26	0	0	0	0	0	0	0	20	6	26	
		IPM in Sali paddy	30.11.2019		4	14	18	0	0	0	0	0	0	0	4	14	18	
		Demonstration on Scientific cultivation of submergence tolerant Sali rice variety Ranjit sub 1 in lowland areas of Dhemaji district	01.12.2019		5	19	24	0	0	0	0	0	0	0	5	19	24	
		FLD on year round production of oyster mushroom	22.01.2020		0	0	0	0	14	0	0	0	0	0	0	14	14	
		Fodder production through cultivation of Oat grass during Rabi season	30.01.2020		13	11	24	0	0	0	0	0	0	0	13	11	24	
		Scientific cultivation of Sesamum	01.12.2019		2	11	13	6	3	9	0	0	0	0	8	14	22	
		Scientific cultivation of new Mustard variety NRC-HB-101 (RKVY-RAFTAAR)	12.02.2020		0	0	0	9	16	25	0	0	0	0	9	16	25	

		Scientific cultivation of new Mustard variety NRC-HB-101 (DRMR)	26.02.2020		0	0	0	9	17	26	0	0	0	9	17	26
		Scientific cultivation of Potato	29.02.2020		19	3	22	0	0	0	0	0	0	19	3	22
4.	Film show	Web casting of Hon'ble PM's launch of NDCP for livestock	11.09.2019													
		Webcasting of The Global Potato Conclave	28.01.2020	2	196	13	209	182	163	345	10	8	18	378	176	554
5.	Scientists visit to farmers fields	-	-	68	18	-	18	46	4	50	-	-	-	64	4	68
6.	Animal Health camp	Pashu aarogya mela in connection with Launch of National Animal Disease Control Programme	11.09.2019	2	11	2	13	0	0	0	0	0	0	11	2	13
		Animal health camp in post flood situation in Dhemaji	29.11.2019		0	0	0	62	9	72	0	0	0	62	9	72
7.	Farmers seminar/	Agricultural workshop on petroleum product	24.01.2020		2	0	2	30	6	36	0	0	0	32	6	38

	workshop	conservation		2														
		Workshop on Boro paddy cultivation	28.01.2020		0	0	0	90	72	162	0	0	0	90	72	162		
8.	Celebration of important days	Celebration of Foundation Day Of Assam Agriculture University	01/04/2018	11	4	10	14	5	45	50	0	0	0	9	55	64		
		Celebration of The World Veterinary Day 2019			0	0	0	13	13	26	0	0	0	13	13	26		
		Celebration Of the World Environment Day	05/06/2018		32	35	67	0	0	0	0	0	0	32	35	67		
		Celebration of Foundation day of KVK Dhemaji	20.06.2019		30	0	30	60	6	66	0	0	0	90	6	105		
		Celebration Of International YOGA DAY,2019	21/6/2019		6	3	9	10	15	25	0	0	0	16	18	34		
		Celebration of 150 <sup>th</sup> Birth Anniversary of Mahatma Gandhi	02.10.2019		14	17	31	34	47	81	0	0	0	48	64	112		
		Celebration of The World Food Day, 2019	16/10/2019		23	3	26	8	17	25	0	0	0	31	20	51		
		Celebration of The World Soil day 2019	05.12.2019		8	3	11	106	43	149	0	0	0	114	46	160		

		Celebration of The Kisan Vigyan Divas 2019	25.12.2019		1	0	1	6	18	24	0	0	0	7	18	25
		Celebration of 75 <sup>th</sup> Anniversary of Indian Constitution	31.12.2019		0	2	2	3	17	20	0	0	0	3	19	22
		Celebration of The International Women 2020	08/03/2020		0	37	37	0	13	13	0	0	0	0	50	50
10	Kisan gosthi	Organized Kisan Gosthi at Silapathar in connection with the large scale plantation drive	17.09.2019	1	48	37	85	84	19	103	0	0	0	132	56	188
11	Exposure visits	Exposure visit of tribal weavers from Dhemaji District to AAU, Jorhat and Titabar under TSP project of Deptt. of Textile & Apparel Designing, C.Sc. AAU from 13 to 14 Sep 2019	13.09.2019 14.09.2019		0	0	0	0	0	0	0	27	27	0	27	27
		Exposure visit of dairy farmers from Silapathar to the dairy farm of Ms. Gupa Biswakarma, Joirampur Dhemaji	25.10.2019	4	18	0	18	10	0	10	0	0	0	28	0	28



		Exposure visit of fish farmers from Silapathar to Sijuli Lakhimpur	09.01.2020		9	3	12	11	4	15	0	0	0	20	7	27
		Exposure visit of fish farmers from Silapathar to Phukan doloni Lakhimpur	09.01.2020		7	3	10	12	5	17	0	0	0	19	8	27
12	Awareness programme	Awareness on Parthenium Week 2019	22.08.2019	4	40	7	47	14	10	24	0	0	0	54	17	71
		Awareness programme on fertilizer application	22.10.2019		60	22	82	146	22	168	0	0	0	206	44	250
		Awareness cum training programme on Soybean	26.09.2019		12	3	15	31	12	43	0	0	0	43	15	58
		Awareness cum training programme on Soybean	21.10.2019		13	4	17	24	11	35	0	0	0	37	15	52
9.	Exhibition	Exhibition on Sericulture Products organized by KVK Dhemaji and College of Sericulture, Titabor at Silapathar	16.10.2019		22	88	110	31	99	130	0	0	0	53	187	240
		Exhibition on Textile and Handloom Products organized by KVK Dhemaji and Deptt. Of Textile & Apparel Designing, AAU, Jorhat at Choukhamting	13.11.2019	5	10	64	74	13	111	124	0	0	0	23	175	198

		Exhibition on agriculture and allied technologies at the General Meeting of TMPK at Akajan	21.12.2019		12	19	31	146	91	237	0	0	0	158	110	268
		Exhibition on agriculture and allied technologies at the Dhemaji Haat organized by Mising Autonomous Council and DAO, Dhemaji at DRDA Dhemaji	07.02.2020 08.02.2020		46	69	115	186	113	299	0	0	0	232	182	414
		Exhibition on agriculture and allied technologies at the Mising Youth Festival at Majuli	05.03.2020 to 09.03.2020		81	113	194	416	312	728	0	0	0	497	425	922
10.	Newspaper coverage	-	-	8	-	-	-	-	-	-	-	-	-	-	-	8
11.	Lecture delivered as resource person	-	-	7	-	-	-	-	-	-	-	-	-	-	-	384
12.	Farmer-Scientist interaction	FSI on fertilizer management	22.10.2019	3	60	22	82	146	22	168	0	0	0	206	44	250
		FSI on soil fertility management and use of SHC	05.12.2019		8	3	11	106	43	149	0	0	0	114	46	160
		FSI on agriculture and allied technologies	28.01.2020		0	0	0	90	72	162	0	0	0	90	72	162

13.	PM Flagship programme	Distribution of Soil Health Card	05.12.2019													132	
<b>Grand Total</b>						<b>768</b>	<b>621</b>	<b>1389</b>	<b>1768</b>	<b>1349</b>	<b>3104</b>	<b>10</b>	<b>35</b>	<b>45</b>	<b>2536</b>	<b>1997</b>	<b>5016</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.):

Date of start: **1<sup>st</sup> April 2018 to 31<sup>st</sup> March 2019**

Periodicity: **1 year**

No. of copies: **250 nos.**

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers	Constraints analysis of small scale pig farming in Dhemaji district of Assam (2019). <i>Journal of Krishi Vigyan</i> , <b>7(2)</b> : 40-45	Ashim Kr. Saikia, Gunjan Gogoi and M. Neog	-
	Effects of feeding different levels of distillers dried grains with soluble (DDGS) on performance of broiler chicken (2019). <i>International Journal of Chemical Studies</i> . 2019, <b>7(6)</b> : 1230-1235	Tolan Borah, Niranjana Kalita, Kashmiri Begum, Pinky Sharma, and Ashim Kr. Saikia	-

	Effect of feeding different levels of distillers dried grains with solubles (DDGS) on the carcass quality of commercial broiler chicken (2020). <i>The Pharma Innovation Journal</i> , <b>9</b> (1): 143-146.	Tolan Borah, Niranjan Kalita, Kashmiri Begum, Ashim Kr. Saikia and Arfan Ali	-
	Effects of feeding graded levels of distillers dried grains with soluble (DDGS) with or without supplementation of multi-enzymes on blood bio-chemical constituents of indigenous chicken (2019). <i>Ind. J. Anim. Nutrition</i> . <b>36</b> (4): 382-387.	Ashim Kr. Saikia, Robin Bhuyan, Bibeka Nanda Saikia, Digendra Nath Sarma.; Robin Roychoudhury, Arndhati Borah and Jog Dev Mahanta	-
Review papers	Nutritional aspects of commercial flower crops. (2019). <i>Journal of Pharmacognosy and Phytochemistry</i> . <b>8</b> (6): 1650- 1659.	Binita Konwar and Lekhika Bargoain	-
Research Abstract published in meeting proceedings	Effects of feeding different levels of distillers dried grains with solubles (DDGS) with or without enzymes on growth performance of indigenous chicken (2020). <i>International Conference on Animal Nutrition (INCAN)</i> , Biswa Bangla Convention Centre, Kolkata, West Bengal, 17-19 <sup>th</sup> December, 2019: PSN-20	Ashim Kr. Saikia, Robin Bhuyan, Bibeka Nanda Saikia, Digendra Nath Sarma.; Robin Roychoudhury, Arndhati Borah and Jog Dev Mahanta	-
Technical bulletins	<i>Sacharasor howa sagolir bema aru seiburar pratikar</i>	Ashim Kr. Saikia, Gunjan Gogoi, Bhupen Kr. Daflari and Ranjit Kr. Saud	200
	<i>Dhan khetir saite samannita krishi pranali</i>	Gunjan Gogoi, Bhupen Kr. Daflari, Ashim Kr. Saikia, Ranjit Kr. Saud and Manoranjan Neog	200
	<i>Bayushwasi mach 'Magurar' palan paddhati</i>	Bhupen Kr. Daflari, Gunjan Gogoi, Ashim Kr. Saikia and Ranjit Kr. Saud	200
	<i>Sagalir basanta rog</i>	Ashim Kr. Saikia, Gunjan Gogoi and Ranjit Kr. Saud	200
	<i>Samannita dhan aru mach palan paddhati</i>	Bhupen Kr. Daflari, Gunjan Gogoi, Ashim Kr. Saikia, Ranjit Kr. Saud and Manoranjan Gogoi	200
	<i>Gai garur kritrim prajanan</i>	Ashim Kr. Saikia, Gunjan Gogoi and Ranjit Kr. Saud	200
	<i>Machar rog aru iyar pratirodh byabasthapana</i>	Mr. Bhupen Daflari, Dr. Gunjan Gogoi, Dr. Ashim Kr. Saikia, Mr. Monuranjan Gogoi, Binita Konwar,	200

		Dr. Ranjit Kr. Saud, Dr. Manoranjan Neog	
	<i>Pasupalanat prathamik chikitcha</i>	Dr. Ashim Kr. Saikia, Dr. Gunjan Gogoi, Mr. Monuranjan Gogoi, Binita Konwar, Mr. Bhupen Daflari, Dr. Ranjit Kr. Saud, Dr. Manoranjan Neog	200
	<i>Sisukhadya aru iyar byabasthapana</i>	Mr. Monuranjan Gogoi, Dr. Gunjan Gogoi, Dr. Ashim Kr. Saikia, Binita Konwar, Mr. Bhupen Daflari, Dr. Manoranjan Neog, Dr. Ranjit Kr. Saud	200
	<i>Narikalar unnata krishi paddhati</i>	Binita Konwar, Dr. Gunjan Gogoi, Dr. Ashim Kr. Saikia, Mr. Monuranjan Gogoi, Mr. Bhupen Daflari, Dr. Manoranjan Neog, Dr. Ranjit Kr. Saud	200
	<i>Bilahi khetir sasya rakshar samannita byabasthapana</i>	Dr. Gunjan Gogoi, Binita Konwar, Mr. Monuranjan Gogoi, Dr. Ashim Kr. Saikia, Mr. Bhupen Daflari, Dr. Ranjit Kr. Saud, Dr. Manoranjan Neog	200
	<i>Gharachiya pashu-pakshir titakaran samaysuchi</i>	Dr. Ashim Kr. Saikia, Dr. Gunjan Gogoi, Mr. Monuranjan Gogoi, Binita Konwar, Mr. Bhupen Daflari, Dr. Manoranjan Neog, Dr. Ranjit Kr. Saud	200
	<i>Pasu-pakshir khadyar upadan hisape soyabean</i>	Chapter in a booklet entitled- 'Asomat soyabean khetir krishi nirdeshawali' published by All India Soybean Research Centre, AAU, Jorhat	200
Training manual published	Training Manual on “ <i>Samannita paddhatit meen palanar hatputh</i> ” (No. AAU/KVK/DMJ/OP/03/20/088)	Mr. Bhupen Daflari, Dr. Ashim Kr. Saikia, Dr. Gunjan Gogoi, Mr. Monuranjan Gogoi, Binita Konwar, Dr. Ranjit Kr. Saud, Dr. Manoranjan Neog	100
	Training Manual on “ <i>Gai garu palanar hatputhi</i> ” (No. AAU/KK/DMJ/OP/03/20/089)	Dr. Ashim Kr. Saikia, Dr. Gunjan Gogoi, Mr. Monuranjan Gogoi, Binita Konwar, Mr. Bhupen Daflari, Dr. Manoranjan Neog, Dr. Ranjit Kr. Saud,	100

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

**(C) Details of Electronic Media Produced : Nil**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
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**3.7. 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. Devajit Changmai – a successful certified seed grower**

**Background:**

Mr. Devajit Changmai, 38years old, resident of Mothadang village under the Sissiborgaon Revenue Circle of Dhemaji District is a young and energetic farmer with a land holding of 1.4ha. He is bread earner of the family of five members and agriculture is the only source of livelihood. After passing out of HSSLC, he started farm activities initially with his father. His farming was limited to only paddy cultivation as land situation was not suitable for other crops. Before coming contact with KVK Dhemaji, he cultivated only local cultivars where he could harvest only 28-36q/ha.

**Intervention by KVK Dhemaji: *The Journey***

One day in June, 2015 Mr. Devojit Changmai visited KVK Dhemaji in search of high yielding paddy seed to replace his local cultivars. He was also interest in seed production to have better price of his produce. In 2016, he participated in a training programme conducted by KVK Dhemaji on Certified Seed Production of Sali paddy. Soon he realized the age long felt of the common farmers searching for quality seed especially Sali paddy. He interacted and enquired with the KVK personnel regarding any opportunity to go for certified seed production. Being observed his interest, KVK Dhemaji conducted an FLD programme on “Certified seed production of Sali paddy variety Ranjit and Gitesh” in 1.0 ha at his field. During the deomonstration programme, detail knowledge on seed selection, cultivation practice, isolation distance, IPM, INM, importance of source of seed , maintenance of field standard and seed standard as well as rouging and isolation distance was taught. That year (2016-17), he could produced 26.0 q and 12.0 q certified seed of varieties *Ranjit* and *Gitesh* respectively certified by ASCA, Assam. Since then he has been producing certified seeds of other paddy varieties like Ranjit and Bahadur sub 1. He diversified his farm activities and developed one Integrated Farming System model (Fish-Duck-Horti) at his backyard with technical guidance from KVK Dhemaji. He started rearing improved poultry (Kamrupa) and duck breed (Khaki cambell) for better production. His keen interest in livestock can be

witnessed by the rearing of pig, goat, quail bird, turkey. He uses organic inputs in own field and has two vermicompost units.

### **Technologies adopted:**

Though Mr. Changmai hailed from a very poor family, his inquisitive and innovative mind always ask to do something new. He always search for the best technology for each programme and think differently to get more return from his ventures. He produced with his best capacity and market them directly to the consumer without any middleman. Thus his exposure to each area of rural agriculture to modern and market intelligence gathered make him the way to successful entrepreneur. He is a early adopter of the technologies such as Fish-Duck-Horti, backyard poultry rearing and off season vegetable production under low cost poly house. He produces organic compost for his own. He was a convener in establishment of the Dhemaji Farmers and Agro Producers Society (DFAPS), a society of progressive farmer and presently working as president of the society. The society organizes and leads a group of about 350 progressive farmers of the district.

### **Output:**

During, 2016-17 he produced 38.0 q certified seeds of both *Ranjit* and *Gitesh* and earned Rs.49,375.00 through sale within the district. Likewise, during 2017-18 he produced 36.6q of variety *Bahadur sub-1* and 4.5q of variety *Ranjit* and during 2018-19 he produced 58.5q of *Bahadur Sub-1* and 26.5q of *Ranjit sub-1* from 1.2ha land area, thereby earned Rs.2,18,000.00 by supplying to govt. agencies. In 2019-20, he planned to 1.39ha for producing certified seed of *Bahadur Sub-1* and thereby produced 110.0q seed certified by ASCA, Assam.

### **Outcome:**

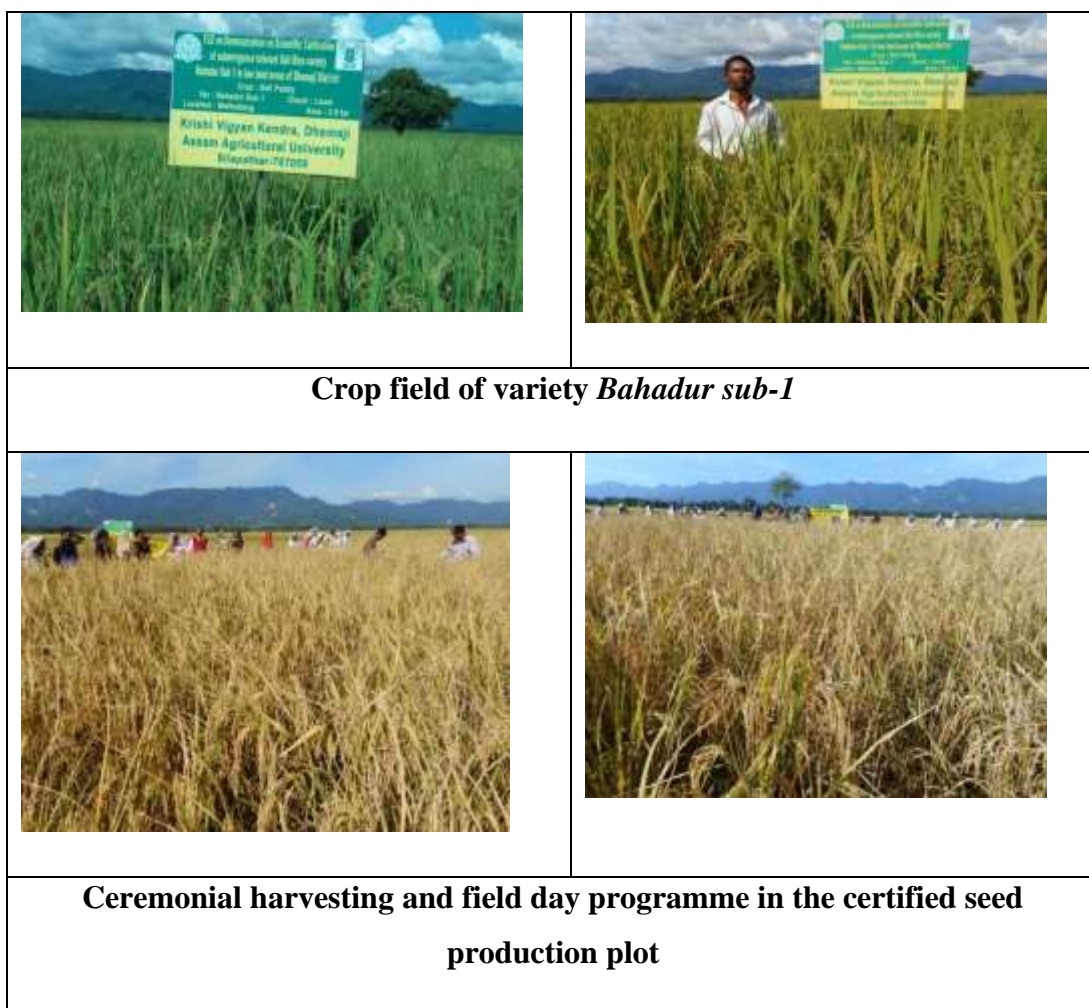
The certified seeds of paddy from Mr Changmai got immediate response from the local paddy growers. Besides farmers he supplied his certified seeds to KVKs, RARS and Deptt. Agriculture, Dhemaji. Since last three years he could earn more than Rs. 4,00,000.00 only from selling certified seeds. From his IFS model he earned Rs. 55,000.00 by selling fish and duck. From the livestock component he earned Rs. 2,00,000.00 in just two years (2018-19 and 2019-20). From other activities he earned more one lacs of rupees which may account to an annual income of Rs. 2,50,000.00 at present.

Moreover, he could able give better standard of living to his family members. Mr. Changamai has attended numerous training and exposure visit by various agencies including KVK. He was also selected to represent Dhemaji district in the 18<sup>th</sup> Foundation day Celebration of ICAR at ICAR,RCER, Patna. He was felicitated and awarded in many occasions at various level.

**Impact:**

Knowing the importance of certified seed, progressive farmers of the district are planning to use certified seed and are procuring seed from Mr. Debojit Changmai. The farmers of the district able to get quality paddy seed which helped them to increase the production. Other fellow farmers are experienced the importance of certified seed.

**Photograph:**





	
<p><b>Bagging and packing of certified seed</b></p>	<p><b>Label of certified seed production</b></p>

## 2. Mr. Priyoram Sonowal - Success in Integrated Farming System

### Background:

Mr. Priyoram Sonowal, resident of Salakhani village, Malinipur gaon panchayat of Dhemaji District is a common farmer like others but with true zeal and enthusiasm for modern agriculture. Before come into contact with KVK Dhemaji he used to cultivate local paddy and vegetables in homestead garden. He also reared one or two pigs for meat purpose, 10-15 numbers of poultry of local breeds for meat and egg purpose. He has 1.4ha land area for paddy cultivation with a homestead garden of 0.13ha. He also has road side area of 0.26ha including a pond of 0.13ha from where he could earn hardly around Rs 15,000.00 annually by selling fish only. From his small earning he had run his family of 6 members.

### Intervention by KVK Dhemaji: *The Journey*

One day during Kharif 2013 he visited KVK Dhemaji after listening a Radio Programme Mr. Sonowal visited KVK Dhemaji and showed his interest in farming. Observing his keen interest in agriculture and allied sector a demonstration programme on HYV paddy variety Ranjit was conducted at his field. Since then he has started cultivation of other HYV paddy varieties like Bahadur, Gitesh and Ranjit and received sizeable production (@40-45q/ha) compared other local cultivars (@28-33q/ha). He has also participated different training programme conducted by KVK Dhemaji. A team of KVK Dhemaji visited his farm and observed available resources and suggested for a year round crop plan, scientific rearing of pig and poultry. In the year 2015-16 he was selected for implementation of 'Pig-Fish-Horticulture' integrated farming systems under the TSP project implemented by KVK

Dhemaji in his 0.26ha plot. He was supported for renovation of fish pond, rising of embankments in an around the pond, a semi intensive pig sty with 3 numbers of piglets of ghunroo cross breeds, feeds for 3 months, a small vermicompost unit and quality fish seed. He planted Assam lemon, Coconut, Banana, Papaya, seasonal vegetables on the newly renovated banks of the pond as training given and suggested by KVK Scientist. Thus he motivated and has been continuing scientific management practices.

### Technologies adopted:

Sri Priyoram Sonowal was exposed to the many technologies through OFT, FLD and other demonstration under TSP programme. He has attended different training programme which help in increasing capacities and confidence and knowledge and skill on different technologies was imparted through training, exposure visit ant demonstration. Finally, he has selected HYV Sali paddy 'Ranjit' to cultivate in his 0. 65ha area, Vermicompost production, Pig-Fish-Horti IFS system, backyard poultry rearing, honey bee, and year round vegetable production in homestead garden. At present he is doing his farm activities with full of zeal and energetically and his farming is became a role model for villagers and many youth of the district.

### Output:

The IFS unit has become productive since 2016-17 with average gross annual income of Rs.1, 24,050.00 from 0.26ha area only which was hardly Rs.15000.00 per annum before intervention of KVK Dhemaji. He is also a good record keeper and as per the study his last three years component wise income from IFS unit are as follows

Sl. No.	Head of Income	Income during			
		2016-17	2017-18	2018-19	2019-20
1	By selling of Fish @ Rs. 180/kg	24500.00	29000.00	18500.00	20500.00
2	By selling Piglets @ Rs.2000/piglet	14000.00	42000.00	16000.00	21000.00

3	By selling pig @ Rs.180/kg	36000.00	37500.00	58000.00	60000.00
4	From vegetable cultivation ( leafy vegetable, Chilli, Cucurbits)	18500.00	20000.00	22000.00	18000.00
5	Fruits ( Guava, Banana, Assam Lemon )	500.00	1500.00	7000.00	7500.00
6	Vermicompost	-	4500.00	10500.00	7500.00
7	Others (Sugarcane, Ginger, Turmeric)	-	1200.00	2200.00	1500.00
8	<b>Total Gross Income (Rs.)</b>	<b>93,500.00</b>	<b>1,34,500.00</b>	<b>1,32,200.00</b>	<b>1,36,000.00</b>
9	Total Gross cost (Recurring only)	18500.00	37500.00	36000.00	35000.00
10	<b>Total Net Income</b>	<b>75,000.00</b>	<b>97,000.00</b>	<b>96,200.00</b>	<b>1,01,000.00</b>

Besides the IFS system, he is able to sale 18q paddy grain remain surplus after family consumption and thereby earned Rs.15000.00 net income. He also earns average Rs.2500.00 monthly from his small homestead garden through sale of surplus vegetables of different kinds. His progressive mindset is the best strength in his success

#### **Outcome:**





Now, at the age 60 Mr. Priyo Sonowal doing hard in a smiling faces and enjoyed his engagement in farming sector. He runs his family with Rs 1, 46,000.00 net income and able to fulfills the need of the family members. Increases his social status, become role model for village youths and many Scientist from Assam Agricultural University, Officials from the

district, youth from different corners of the district, Students were witnessed his success appreciated his works.

**Impact:**

Witnessing the success of the system in Mr. Sonowal’s field, the nearby farmers who were practicing integrated farming in their homestead opted for scientific method of Integrated Farming System with organized systems. His success story was broadcasted AIR, Dibrugarh center for two times. Mr. Priyoram Sonowal is a good farmer leader and under his leadership, group of village educated youth become real farmer and able to change the agricultural scenario of the village.

**Photograph:**

	
<p><b>Overall view of the IFS model of Mr. Priyoram Sonowal</b></p>	<p><b>Semi intensive pig sty of his farm</b></p>
	
<p><b>Leafy vegetable cultivation on bank of the</b></p>	<p><b>Horticultural Component under IFS</b></p>

pond	
	
Fish production if his pond	Piglet production in his farm

### 3. Mr. Nirmal Borah: Success in Improved type poultry rearing in backyard system

#### Background:

Mr. Nirmal Borah son of Mr. Mileswar Borah resides in Borpathar area of Silapathar under the Sissiborgaon development block of Dhemaji district. Mr. Nirmal Borah, a 52 year old farmer primarily engaged in farming with a total land holding of 2.40 ha land, out of which he has a farm land of 2.14 ha. The farm land is used for paddy cultivation in 1.03 ha of land and the rest 1.11 ha of land is used for cultivation of seasonal vegetables and other fruit crops including Banana, Assam lemon and other fruit crops. A part of his livelihood is also comes from dairy and indigenous poultry rearing apart from serving as a part-time civil construction worker. He completed his institutional study up to HSLC. Mr. Borah heads a 5 member family, consisting of his 3 daughter and his wife. His daughters are studying in classes XII, IX and II.

#### Intervention by KVK Dhemaji: *The Journey*

Mr. Borah came into contact with Krishi Vigyan Kendra, Dhemaji through a local NGO, hearing about KVK; he approached the office during March 2014 and showed his interest on cultivating fruit crops and other vegetables. He also requested the KVK scientist to visit his farm for supervision and advice. Then a visit was done to his farm and was also sent for two exposure visits to B. N. college of Agriculture, Sonitpur and Horticulture Research Station, Kahikuchi, Guwahati and CVSc, AAU, Khanapara during the year, 2014. Looking at the interest of the farmer on the newer technologies he exposed at the BNCA and HRS, Krishi Vigyan Kendra, Dhemaji decided to conduct a demonstration on *Papaya cultivation var. Red Lady* at an area of 0.043 ha with 50 plants to introduce the crop as a fruit in the front yard bari of Mr Borah which happens to be in the close vicinity of the village approaching road. He completed this programme successfully and thereafter, he attended many training imparted by KVK including a training on 'Rearing of improved dual purpose poultry'.

### **Technologies adopted:**

Backyard poultry is one of the important livelihood options for most of the rural families in the district and poultry rearing can enhance household food security and contribute to poverty reduction through provision of supplementary food, employment and generates additional income by sale of eggs and meat. It has been observed that productivity of local poultry reared in the backyard system is low hence an effort was made in the district to upgrade the existing poultry by replacing them with Vanaraja breed.

With this objective, KVK Dhemaji demonstrated various improved and dual purpose poultry breed like Vanaraja, Kamrupa, Rainbow Rooster etc. among the farmers of the district. Observing his interest, Mr. Borah was given nos. of Vanaraja chicks under demonstration programme in the year, 2017-18 for rearing on his backyard. He was also taught about various vaccines, medicines and other supplements to be given to the birds time to time and also various managerial aspects on scientific poultry rearing. He completed his demonstration programme successfully and grew more interest for rearing the same with more numbers of birds. He then procured 100 nos. of Vanaraja chicks of his own from a poultry dealer in Guwahati in the month of June, 2019.

**Output:**

Mr. Borah has been rearing his birds with sincerity and dedication maintaining all required bio-security measures and maintain standard managerial practices. At the age of 6 months, the average weight of female and male birds was 2.0 and 3.50 kg, respectively. There were 57 nos. of male and 38 nos. of female birds at his hand on 6<sup>th</sup> months of age, when the female started laying eggs. At that point, Mr. Borah sold 52 nos. of male birds @ Rs. 300.00 per kg of live weight and earned Rs. 46,800.00. He kept the other male birds for breeding the female birds. On the other hand, the hen started laying egg and on an average they laid 21 nos. of eggs per day for last 6 months. The size of the eggs was bigger than the eggs from indigenous birds and colour was brown like the local one. Therefore, the people are happy to pay Rs. 10 per egg like local eggs and even there was higher demand for it in the locality. Mr. Borah earned a total of around Rs. 35,000.00 by selling the eggs in 6 months in addition to his house-hold consumption. During the entire period he earned around Rs. 45,000.00 as net profit from after considering all the expenses and his monthly income comes about Rs. 3750.00 per month from the exercise in addition to his normal income from other Agri - Horti based activities. In addition, presently Mr. Borah has 5 nos. of male and 33 nos. of female birds, whose value would be around Rs. 25,000.00

**Outcome:**

Mr. Nirmal Borah is highly pleased from the results of the programme and he becomes an example for the fellow farmers of Silapathar area. He is highly satisfied with the performance of Vanaraja birds in terms of the age at the point of laying, weight of the birds, weight and colour of eggs and average egg production. People of the locality also highly appreciate Mr. Borah for carrying such a noble way earning and many of them already bought fertile eggs from Mr. Borah and hatched chicks of Vanaraja by using their own broody hen.

**Impact:**

Thus, rearing around 100 nos. of Vanaraja birds under backyard system can be a good income source for a small family that will, in addition, ensure high quality protein production and nutritional security for the family members and also provide sustainable livelihood for poor landless, small and marginal farmers of the district. Mr. Borah also

narrated his success story of Vanaraja bird rearing in a radio programme broadcasted by All India Radio, Dibrugarh, which may become a source of inspiration to many others.

	
<p><b>Vanaraja birds under backyard rearing system</b></p>	
	
<p><b>Feeding the birds under backyard system</b></p>	<p><b>Vanaraja eggs</b></p>

#### 4. Mr. Dinesh Doley – an success in Integrated farming System

##### **Situation analysis/Problem statement:**

Agriculture is the main sources of livelihood in Dhemaji district, in around 85 percent populations are directly and indirectly dependent on agriculture. Now a days some of the cultivable sources of land are degradable due to high rate of population growth, climate change, unpredicted flood during summer etc. Integrated farming in terms of Fishery, Agriculture, Horticulture and Animal husbandry is practiced by most the households of the district, where integration of those farming activities is not in scientific modus. Intervention



on proper scientific integration of different farming activities along with these eco-friendly technologies are need to aware among all the farmers of the district.

### **Plan, Implement and Support:**

Mr. Dinesh Doley, S/o. Lt. Rama Kt. Doley of village Ayengiapatiri, P.O.-Akajan under Sissiborgaon ADO circle, Dhemaji is an example of successful educated farmer of the district. Mr. Doley take his education up to BA, now he is a 48 years old and actively engaged in the development of agriculture, horticulture, livestock (poultry & piggery) and fishery. Almost 11 years back Mr. Doley started his farming to generate his own income for running his families. Now, he possesses 2.26 ha of land out of which 1.66 ha under rice cultivation, 0.20 ha under vegetable and 0.20 ha under apple ber and coconut plantation and 0.20 ha fishery based IFS modules. But prior to 2011, he was only a traditional farmer who confined his cultivation only with local paddy varieties, poultry breed, piggery breed, fish spp. and vegetables etc.

### **Technology interventions by KVK:**

Scientist from KVK, Dhemaji had visited to different places of the district for implementation of IFS in different location along with duckery and piggery unit under various KVK mandatory activities and that time selected the farm of Mr. Doley for fishery based IFS system during the year 2011-12, Later on RARS, North Lakhimpur had also supervised his entire farm & took demonstrated under the TSP programme at his farm during 2013-14 and then he come an closed contact with both of the station till now, and highly motivated to adopt the scientific production technologies, which was his turning point. Since then, he started agriculture and allied sector in a commercial venture. With the intervention of Krishi Vigyan Kendra, Dhemaji he initiated his cultivation practices with improve varieties, intercropping, mix cropping, line sowing, poultry, piggery, fishery, apple ber & coconut plantation and vermin-compost unit etc.

### **Technological dissemination:**

His services are being used for sharing his experience on field and as well as IFS with other youth farmers in order to motivate them also to witnessing the success of the system in Mr. Doley's farm, the nearby upcoming farmers who were practicing integrated farming

and allied agricultural sector in their homestead opted for scientific method of his Farming System with organized systems in all field maintaining the optimum quantity of Animal component and the fish quantity etc. He disseminated the technology to other farmers which he gained from KVK scientist and act as a model farmer in his locality as well as the few parts of the district.

**Output/Outcome/Impact:**

In an area of 0.26 ha of pond Mr. Doley got a yield of 7.3 q fish, duck meat 70 kg, egg 480 nos. with an overall annual income of Rs. 132500.00 from this component. Mr. Doley cultivated high yielding paddy variety from where he got a yield around 5.4 ton/ha area. He also growing high yielding Toria variety TS-38 which was collected from KVK Dhemaji yielding around 10.2 q/ha. & vegetables like Cabbage, Cauliflower, Broccoli, Pumpkin, Brinjal, Mint, Colocasia, Coriander, Bitter gourd, Ridge gourd, Cucumber, Chilli and French bean etc. in rabi season from where he reappearance very good annual income of Rs. 30000.00 per year. His another main sources of income generating is the piggery component. He selling around 4-6 mature pig & 16-20 nos. piglet to the local vendors in a year from his household. Mr. Doley is now earning about Rs. 3.12 lacs annually from his farm and running his entire family very happy and smoothly.



**Photograph of Fishery based IFS**



**Photograph of Rice cultivation**



**Photograph of piggery unit**

### 5. Sustainable Livelihood through Vegetable farming : Mr. Mulan Bhuyan

**Background:**

Mr. Mulan Bhuyan son of Lt. Sarbananda Bhuyan is a resident of Matikhula village under the Dhemaji development block of Dhemaji district. Mr Bhuyan is a Higher Secondary passed out progressive farmer of 52 years of age. He is actively engaged in farming in the Matikhula area of the district. Mr Bhuyan is a member of the progressive farmers group under the District Agricultural Office and holds a very respectable place among the farming community of the district. Mr Bhuyan is endowed with a good land resource inherited from his fore fathers. He has a total land area of 2.26 ha of which he have a cultivable area of 2.00

ha. He has a family of 5 members with his wife and 3 sons who are totally dependent on his livelihood option which is farming.

During the earlier years of his cultivation in 2015-16 ,in spite of all the available resources such as 2.00 ha cultivable land, habit of backyard poultry rearing, human resources in family, his annual net income could not exceed an amount of Rs. 60,000.00 per annum due to lack of knowledge on resource utilization, scientific cultivation of crops, management of livestock etc. He mainly dependent on paddy cultivation as his major farm activity and cultivated only local cultivars.

### **Intervention by KVK Dhemaji: *The Journey***

Agriculture being the major source of livelihood for the family, Mr Bhuyan along with his wife and the elder son has been engaged in Agricultural activities. Earlier the income from the agricultural activities was enough for day to day living but could not meet up all the needs of the family. He 1<sup>st</sup> came into contact with KVK Dhemaji through a training programme on “***Planting material production of Horticultural crops***” during February 2017 which was given as per the request by a group of farmers of Matikhula area. The training imparted in Mr. Bhuyan field proved to be fruitful for him as he have a good resource of fruit crops such as *Assam lemon (200 plants)*, *Guava var. L-49 (10 plants)*, *Litchi (2 plants)* and *Betal nut (300 plants)* which could be used as a Mother plants. After the training Mr. Bhuyan took up the intervention of a small scale nursery for sale of saplings of fruit trees and became a regular visitor of KVK Dhemaji. He showed his interest in taking up new technologies, innovative mindset and in diversified agricultural activities. His ability to organize and lead his group of farmers was identified by the Krishi Vigyan Kendra, Dhemaji and since he has been constantly taking guidance in different aspect related to agriculture and other allied farming activities. Mr. Bhuyan has taken about four (4) numbers of trainings on Crop production, Horticulture , Animal Science and Fishery Science, one (1) training of Skill training on Horticulture nursery management, organized by KVK, Dhemaji. He participated in different demonstration programs. In view of his quality and hard working nature KVK, Dhemaji has taken up the demonstrations of organic farming under the ***Paramparagat Krishi Vikash Yojana (PKVY)*** in the Matikhula area

Through KVK, Dhemaji he also got the chance to participated in different training programmes, exposure visits and demonstration programmes conducted by different

developmental departments through which he got the chance to interact with scientists and other progressive farmers.

### **Technologies adopted & Output:**

At present his homestead garden (1.20 ha) is full of different horticultural crops. He is the pioneer Assam lemon grower in that area with an area of 0.26 ha. Apart from Assam lemon he also have Litchi , Guava and other minor fruit crops in his homestead bari from where he has an annual net income of about 40,000.00 . He also grows seasonal vegetables in an area of about 0.50 ha where during the Rabi season he has an annual income of about 50,000.00 and during the Kharif season growing different Summer vegetables he earned a net income of about 25,000.00. Apart from the horticultural crops he also cultivates field crops in an area of 1.06 ha where he generally grows Sali paddy (Ranjit & Bahadur) followed by Toria or Potato. From Sali paddy he get an annual income of around 11,000.00 and by selling the Toria (1.00 q) and Potato (18.00 q) he gets an income of around 20,000.00. He also reared backyard poultry where at present he possesses about 20 numbers of poultry of improved breed. His total net income for the year 2019-20 is around Rs.

Mr Bhuyan also have an well maintained Beta nut plantations with more than 300 plants from where he get an annual income of about Rs. 1,00,000.00 by selling nuts in different processed form as well as as fresh Betal nuts. He is also actively engaged in a small scale nursery where he raised cuttings of Assam lemon, layered Litchi and Guava plants and also Betal nut saplings from where he earned a total income of Rs. 25,000.00 His total income during the year 2019-20 was Rs. 2,71,000.00

### **Outcome:**

Mr. Bhuyan from his vast experience in farming since a long period of time has now developed to be a successful farmer with farming as his sole source of income and running his family with good social status. His average annual gross income from different component goes up to Rs.5, 50,000.00 with annual net income Rs. 2, 71,500.00. He can now take decision to according to his farm situation and market potential. He already has an established homestead garden with different fruits crop such as Guava, Litchi, Assam lemon etc. which is now a resource for his budding nursery which is taking up a good pace.

### **Impact:**

Mr. Bhuyan is now a respectable leader among the farming community of Dhemaji. He was honoured by many organizations as progressive farmer including the District Administration. He motivated a group of farmers for farming in his locality.

**Photograph:**



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

**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) : Nil**

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

- Farmers visit to KVK
- Field visit by KVK

- Personal contact
- Participatory Rural Appraisal
- Farmers Scientist Interaction

### 3.11 Field activities

- I. Scientist Visit to Farmers field : 68
- II. No. of Diagnostic visits: 85
- III. Number of villages adopted: 5 nos.
- IV. No. of farm families selected: 450 households

### 3.12. Activities of Soil and Water Testing

1. **Status of establishment of Lab:** KVK Dhemaji is being operated from rent house and hence there is no soil testing facility in the office.

2. Year of establishment :
3. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab / Mridaparikshak	Manufacturer		
1	-	Mridaparikshak	Nagarjuna Agro Chemicals Pvt. Ltd.	2	180600.00

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

Details	No. of Samples analyzed	No. of Farmers	No. of Villages	Amount ( In Rupees) realized
Soil Samples	11	127	6	-
<b>Total</b>	11	127	6	-

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

- a. No. of SHCs prepared: **127 nos.**
- b. No. of farmers to whom SHCs were distributed: **127 nos.**
- c. Name of the Major and Minor nutrients analyzed: **pH , EC, Organic carbon (OC), Available Nitrogen (N), Available Phosphorus (P), Available Potassium(K), Available Sulphur (S), Available Zinc(Zn), Available Boron (B), Available Iron (Fe)**
- d. No. of villages covered: **4 no.**
- e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page): **Soil health card was used for nutrient management in demonstrated crops like Sesamum, Blackgram, Toria, Potato and Pea as well as crops like Chickpea, Paddy, Tomato .**

## 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	16	46050	10	26850	-	-	-	-	2	5900	3	8800	31	87600
Total	16	46050	10	26850	-	-	-	-	2	5900	3	8800	31	87600

## 3.14 Contingency planning for 2019-20

## a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Drought					
Introduction of new variety or crop	1. Sali rice variety- Ranjit sub-1, Bahadur sub-1 etc ( Direct sowing or transplanting)	10.0	5	45	50
	2. Photo insensitive Sali rice variety- Gitesh	3.0	10	30	40



	3. Kharif black gram variety KU-301/IPU-94-01	30.0	15	60	75
	4. Introduction of HY toria variety TS 36 / TS 38	20.0	50	50	100
	5. Sesame variety <i>Kaliabor local</i>	10.0	25	25	50
<b>Introduction of Resource Conservation Technologies</b>	1. Practice of conservation/Zero tillage (Lathyrus cultivation)	10	10	40	50
	2. Apply additional amount organic manure	-	-	-	-
	3. Mulching should be practiced in between crop rows using locally available mulch material	0.5	5	10	15
	4. Relay cropping of Pea with Paddy	5.0	10	30	40
<b>Distribution of seeds and planting materials</b>	1. Raising community nurseries by direct sowing with 20-25 % high seed rate at a place near an assured water source.	-	-	-	-
<b>Any other (Please specify)</b>	1. Top dress additional quantities of MOP @ 5 kg/bigha and incorporate in Soil	-	-	-	-
	2. Spray 2 % MOP solution on leaves if and when drought appears	-	-	-	-
	3. Top dressing of urea may be delayed	-	-	-	-
	4. Life saving irrigation followed by foliar application of nutrients 2% urea or 2% DAP or 1% KNO <sub>3</sub>	-	-	-	-
<b>Flood</b>	<b>Introduction of new variety or crop</b>				

	1. Short duration Sali rice variety- Luit, haccha, iglongkiri and Dishang ( Direct sowing or transplanting)	10.0	20	30	50
	2. Submergence tolerance varieties like Swarna sub-1 , Ranjit sub 1 & Bahadur Sub 1 may be grown	5.0	10	40	50
	3. Kharif black gram variety PU-31	20	20	30	50
	4. Late sown toria variety TS 46 / T S 67/ JT 90-1	10	10	10	20
<b>Introduction of Resource Conservation Technologies</b>	1. Proper drainage if water lodging persists.	-	-	-	-
	2. Small seedlings withstand the problem of Flood	-	-	-	-
	3. Drainage of excess water., Apply 1/3 <sup>rd</sup> N + 50% K <sub>2</sub> O as top dressing during the tillering stage in paddy	-	-	-	-
<b>Distribution of seeds and planting materials</b>	1. Growing of cucurbits after receding flood water	1.0	5	15	20
	2. Growing of cucumber and pumpkin	1.0	5	15	20
<b>Any other (Please specify)</b>	1. Provide drainage and follow protective plant protection measure and harvest as soon as possible	-	-	-	-

#### a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total
Flood	-	2 (Awareness cum Animal health Camp)	2	Cattle: 700 nos. Pigs: 100 nos. Goat: 70 nos. Poultry: 700 nos.	45	100	145

#### 4.0. IMPACT

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

Impact of OFT carried out by the KVK in the district.

Crops	No. of OFT carried during the last five years	Cultivable Area under Crop (in Hectare)		Productivity/Yield of the Crop (Per Hectare)	
		Before Dissemination of technology	After Dissemination of technology	Before Adoption of new technology	After Adoption of new technology
<b><u>Cereals</u></b>					
a. Submergence tolerant Sali paddy var. Ranjit sub 1 , Swarna sub 1, Bahadur sub 1	1	0	100	42.00 q	53.00 q

b. Rice - Toria cropping sequence	1	0	350.00	-	Paddy : 48.00 q Toria: 7.50 q
<b><u>Pulses</u></b>					
a. Blackgram var. PU 31	1	nil	150.00	-	7.60 q
<b><u>Oilseeds</u></b>					
a. Late sown Toria var: <i>Jeuti, TS 46, TS 67, TS 38</i>	3	Nil	450.00	-	8.50 q
<b><u>Horticulture</u></b>					
Boron application in Cole crops	2	120.00	321.00	620.00 q	743.00 q
Non-Crop Activities					
Type of Non – Crop Activities	No. of OFT carried during the last five years	Productivity/Yield		Change in Income due to intervention of OFT	
		Before Adoption of new technology	After Adoption of new technology	Before Adoption of new technology	After Adoption of new technology
<b><u>Animals / Poultry</u></b>					
a. Backyard poultry improved breed <i>Kamrupa 1</i>	2	Egg/year/hen : 60 Mature hen wt : 1.85 kg	Egg/year/hen : 165 Mature hen wt :2.1 kg	-	32 % increase
<b><u>Enterprises</u></b>					
a. Low cost Vermicompost	1	Nil	Compost yield : 6.0 q/tank/year	-	18 % increase

production					
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Impact of FLD carried out by the KVK in the district.

Crops	No. of FLD carried during the last five years	Cultivable Area under Crop (in Hectare)		Productivity/Yield of the Crop (q/Hectare)	
		Before Dissemination of technology	After Dissemination of technology	Before Adoption of new technology	After Adoption of new technology
<b>a. Cereals- Paddy</b>					
a. Variety <i>Ranjit Sub-1</i>	3	0.0	340.0	39.0	51.0
b. Variety <i>Gitesh</i>	5	10.0	110.0	37.5	48.0
c. Variety <i>Bahadur Sub-1</i>	3	0.0	160.0	39.0	51.0
d. IPM module in Sali rice	5	255.0	505.0	48.0	51.1
<b>Pulses</b>					
a. Black gram variety <i>PU- 31, KU 301, IPU- 94-1</i>	3	7.0	150.0	3.80	6.50
<b>Oilseeds</b>					
a. Toria variety <i>TS-38, TS 36, JT- 90-1 (Jeuti)</i>	7	0	1500.0	-	9.50
b. Sesamum var. <i>Bahuabheti</i>	3	0	150.0	5.30	6.50
<b>Fruits</b>					
a. Assam lemon	2	20.0	75.0	150 nos. of fruits/ plant/yr	210 nos. of fruits/ plant/yr

<b>Vegetables</b>					
a. Okra var. <i>Arka Anamika</i>	1	10.0	57.0	130.0	210.0
<b>Tuber crops</b>					
a. Colocasia var. <i>Ahina kochu</i>	2	35.0	110.0	85.0	130.0
b. Potato var. <i>Kufri Bahar/ Kufri Sindhuri</i>	1	45.0	190.0	175.0	218.0
<b>Fodder</b>					
a. Perennial fodder (Hybrid Napier, Guinea )	4	3.50	20.0	654.0	720.00
b. Annual fodder (Oat)	5	Nil	39.0	-	254.00
<b>Non-Crop Activities</b>					
Type of Non – Crop Activities	No. of FLD carried during the last five years	Productivity/Yield		Change in Income due to intervention of FLD	
		Before Adoption of new technology	After Adoption of new technology	Before Adoption of new technology	After Adoption of new technology
a. Oyster mushroom production	5	Nil	1.630kg/ bed	-	Rs. 135.00 per bed
b. Low cost vermicomposting	5	Nil	6.0 q/ harvest	-	5050.00 per unit
<b>c. Animals/Poultry</b>					
a. Dual purpose poultry (Vanraja/Kamrupa)	6	Egg yield: 80 nos./ year Mature hen weight:1.6 kg	Egg yield: 200 nos./ year Mature hen weight: 2.1 kg	Income from egg: Rs. 560.00 / hen Income from meat: Rs. 272.00 / hen	Income from egg: Rs. 1400.00 / hen Income from meat: Rs. 357.00 / hen
b. Improved duck, Breed-	3	Egg yield: 80 nos./ year	Egg yield: 190 nos./ year Mature bird weight: 2.8	Income from egg: Rs. 560.00 / hen Income	Income from egg: Rs. 1330.00

Khaki Campbell		Mature hen weight: 1.9 kg	kg	from meat: Rs. 475.00 / hen	/ hen Income from meat: Rs. 700.00 / hen
c. Performance of Quail breed – <i>Japanese Quail</i>	1				
<b>e. Sericulture</b>					
a. Muga Silk worm rearing	2	Hatchability: 60- 70%  Yield: Average 2000- 3500 cocoons per 100 gm dfl	Hatchability: 95-100%  Yield: Average 4000- 5000 cocoons per 100 gm dfl	Rs. 4500.00 / month	Rs. 6250.00 / month
b. Eri Silk worm rearing	2	Hatchability: 65-75%  Yield: Average 3500- 4000 cocoons per 100 gm dfl	Hatchability: 95-100%  Yield: 7000-8000 cocoons per 100 gm dfl	Rs. 2300.00 per month	Rs. 3200.00 per month

#### 4.2. Cases of large scale adoption (Please furnish detailed information for each case)

Activity	Methodology used for analysis	Impact
Demonstration on rice - toria cropping sequence	Demonstration and group discussion	<ul style="list-style-type: none"> <li>The cultivation of toria after Sali paddy increase the income of the farmers, which motivate the farmers of the adjoining areas to adopt the technology in coming years</li> <li>The farmers are in constant contact with KVK for other new technologies as well.</li> </ul>
Demonstration on Sali paddy (var <i>Ranjit Sub-1</i> & <i>Bahadur sub-1</i> )	Observation and Group Discussion	<ul style="list-style-type: none"> <li>The district is very much prone to flash flood causing submergence of Sali paddy for a period ranging from days to weeks. Therefore, <i>Ranjit Sub-1</i> &amp; <i>Bahadur sub-1 varieties</i> showed good performance in terms of yield in flood affected areas, hence large scale adoption of the technology is</li> </ul>

		<p>expected in coming years</p> <ul style="list-style-type: none"> <li>Farmers accepted the technology and nearby farmers are adopting</li> </ul>
Mushroom production	Demonstration and group discussion	<ul style="list-style-type: none"> <li>Low input cost with faster and higher return proved a profitable secondary agriculture for the farmers</li> <li>Farmers accepted the technology and planning for entrepreneurship development in this field.</li> </ul>
Low cost Vermicompost Technology	Observation and personal contact	<ul style="list-style-type: none"> <li>Observing the beneficial effects of vermicompost and with the increasing demand of Vermicompost the farmers showed interest in adopting the technology for vermicompost production.</li> </ul>

#### 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)
Certified seed production of Sali paddy	5	20	21945.00 / ha	38218.00 / ha
Toria ( variety : TS-38.TS-36)	300	70	15348.00 / ha	30348.00 / ha
Late sown toria variety TS 46 / TS 67	10	30	13698.00 / ha	26848.00 / ha
Sesamum (Variety Bahua bheti)	75	10	7875.00 / ha	18675.00 / ha
Mushroom	55	20	0.00	334.00 / bed

## 5.0. LINKAGES ESTABLISHED

### 5.1 Functional linkage with different organizations

Name of organization	Issues of convergence
1. District Administration, Office of the DC, Dhemaji	Administration, conducting different meetings, exhibition and other activities
2. Department of Agriculture, Dhemaji, Govt. of Assam	Conducting training programme, farmers-Scientist interaction, diagnostic visit, field visit and in implementing various schemes including STRY programmes.
3. Department of Animal Husbandry & AH, Govt. of Assam	Conducting training, awareness camp, health camp and field days. Sharing resource person. Cooperation in implementing TSP project.



4. District Fishery Dept. Dhemaji, Govt. of Assam	In planning annual action plan, sharing resource person along with implementation of different programmes including STRY training, training under CMSGY
5. Department of Soil conservation, Govt. of Assam	Implementation of TSP programme, demonstration of IFS model.
6. Department of Sericulture, Dhemaji	Cooperation in implementing Sericulture component of TSP Project
7. Assam State Rural Livelihood Mission, Dhemaji	Conducting skill development training, organization of different awareness camp, Celebration of Women da, group mobilization
8. Missing Autonomous Council, Gogamukh	Technology Backstopping in their different agricultural programme. Cooperation during implementation of different programme.
9. Department of Health and Family Welfare	Conducting training for community Health workers on nutrition and health
10. Assam Seed Certification Agency	For seed certification of seed growers of the district
11. NSC, Guwahati	Making availability of seed of different kind
12. RSETI	In planning annual action plan and sharing resource person
13. DRDA, Dhemaji	Organizing different events
14. Regional Agril. Research Station, AAU, North Lakhimpur	Sharing resource person for farmer-scientist programme, exhibition etc. weather data.
15. Lakhimpur College of Veterinary Science	Conducting training, awareness camp, health camp and field days. Sharing resource person. Cooperation in implementing TSP project
16. Rural Volunteer Centre (NGO), Akajan, Silapathar, Dhemaji.	Performing as Resource person in their training and field visit.
17. Simen Chapori College, Simen Chapori	Celebration of AAU foundation day

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.)
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Tribal Sub Plan Project (TSP) for the year, 2016-17	a. Promotion of Agriculture centric sustainable livelihood security by conducting demonstrations on Agriculture, Horticulture, Integrated farming systems for tribal farmers of Assam. b. Capacity building of the farmers by conducting trainings and dissemination of demonstrated technologies through Field days.	January, 2018	ICAR, New Delhi	34,40000.00
Piggery Centric Tribal Sub Plan Project (TSP) for the year, 2018-19	a. Promotion of Piggery centric sustainable livelihood security by conducting demonstrations on scientific pig rearing for tribal farmers of the district. b. Capacity building of the farmers by conducting trainings.	September, 2018	ICAR, New Delhi	25,000,00.00
Paramparagat Krishi Vikash Yojana	a. Demonstrations on Organic farming b. Capacity building of farmers	August,2019	ICAR, New Delhi	3,30,000.00
Demonstrations under NEH component	a. Demonstration of different field and horticultural crops b. Capacity building of the farmers	August,2019	ICAR, New Delhi	1,50,000.00
Demonstration under RKVY-RAFTAAR		October, 2019	ICAR, New Delhi	3,60,000.00
Demonstrations under Directorate of Rapeseed and Mustard Research		November, 2019	DRMR, Bharatpur	16,700.00

### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

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

5.5 Nature of linkage with National Fisheries Development Board: No programme undertaken

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	SBI, AAU Branch	Jorhat	
With KVK	SBI, Kulajan Branch	Silapathar	11869162145
Revolving Fund	The KVK runs from Rent house and so revolving fund is not active in the KVK		

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

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	1,20,00,000.00	92,14,144.00	92,14,144.00
2	<b>Traveling allowances</b>	2,50,000.00	1,30,022.00	1,30,022.00
3	<b>Contingencies</b>	14,00,000.00	12,92,671.50	12,92,671.50
<b>A</b>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)		2,41,624.50	2,41,624.50
<b>B</b>	POL, repair of vehicles, tractor and equipments	-	49,382.00	49,382.00

<i>C</i>	Meals/refreshment for trainees	-	1,62,361.00	1,62,361.00
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	-		
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	-	3,37,020.00	3,37,020.00
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	-	2,51,616.00	2,51,616.00
<i>G</i>	Training of extension functionaries	-	1,30,668.00	1,30,668.00
<i>H</i>	Maintenance of buildings	-	1,20,000.00	120,000.00
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
<i>J</i>	Library	-	-	-
<b>TOTAL (A)</b>		<b>1,36,50,000.00</b>	<b>1,06,36,837.50</b>	<b>1,06,36,837.50</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	-	-	-
2	<b>Equipments including SWTL &amp; Furniture</b>	-	-	-
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	-	-	-
4	<b>Library</b> (Purchase of assets like books & journals)	-	-	-
<b>TOTAL (B)</b>		-	-	-
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>1,36,50,000.00</b>	<b>1,06,36,837.50</b>	<b>1,06,36,837.50</b>

**7.4 Status of Revolving Fund (Rs. in lakhs) for last three years: NA as KVK Dhemaji operates from rent house hence no farm activity.**

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 2016 to March 2017	-	-	-	-
April 2017 to March 2018	-	-	-	-
April 2018 to March 2019	-	-	-	-

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

**8.1 Constraints**

- (a) **Administrative:**
1. Lack of Permanent Office campus
  2. Due to lack of Permanent Office campus there is no facility for instructional farms and other demonstration units
  3. Vacancy of one stenographer cum computer operator post
  4. Vacancy of one Grade IV employee
- (b) **Financial:**
1. Contingency budget may be increased
- (c) **Technical:**
1. Lack of laboratory facility for conducting Soil test, Water test etc.
  2. New vehicle should be provided.

(Signature)  
**Sr. Scientist & Head**