

# Annual Action Plan (2022-23)

## KRISHI VIGYAN KENDRA, KOKRAJHAR



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## Action Taken Report

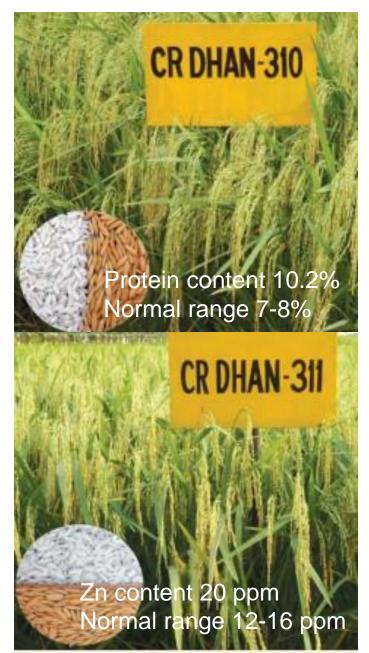
Recommendation	Action Taken
Economic gain from CR Dhan 310 and CR Dhan 311 should be carefully monitored on OFT	The OFT is not conducted as no SMS in Agronomy discipline
Availability of chemicals in OFT- management of papaya mealy bug should be checked	Neem oil, Thiomethoxam are readily available in the market.
OFT on performance of HD K-75 breed of pig under intensive system of management may be monitored closely.	Detailed data has been collected
In OFT on Effect of <i>Moringa oleifera</i> (Drumstick) seed for cleaning water, water quality parameter should be properly checked	Physical, chemical and bacteriological parameter will be assessed. (pH,turbidity,color,acidity,alkalinity, cholide,hardness, SPC/100ml, MPN/100ml)
In FLD- Low cost Solar tent dryer to dry chilli data should be recorded with respect to the size of drier.	Total capacity of fresh chilly is 12kg in solar tent dryer and after drying it is 4.2 kg dry chilly
Demonstrations on IFS should be done in such a way that technology gets popularized	Field day conducted for result demonstration and farmers reputed farmers are

## **On Farm Testing (Discipline–Wise Summary)**

Discipline	Сгор	Trials	Discipline	Crop/enterprise	Trials
Agronomy	Paddy	4	Animal	Goat	3
	Rice-Toria-millet cropping sequence	3	Science	Pig	3
Horticulture	Sweet Potato	4	Community Science	Eri yarn	3
	Water melon	r melon 4		Реа	3
	Ridge gourd	4			
Soil Science	Potato	5		Eri silk worm	3
	Scented Rice	3			
Plant Protection	Brinjal	3		Product diversification	3
Total	No. of OFT=14	4	No. of trial=	48	

#### <u> On Farm Trial – Agronomy</u>

Title	Evaluation of Bio-fortified paddy varieties CR Dhan 310 and CR Dhan 311
Problem Diagnosed	Lack of bio fortified paddy variety
Thematic area	Varietal evaluation
Technology	T <sub>1</sub> =CR Dhan 310 T <sub>2 =</sub> Cr Dhan 311 T <sub>3 =</sub> Farmer's Variety
Source of Technology	ICAR-NRRI, Cuttack
No. of Trial (Area)	3 (0.6 ha)
Parameters of assessment	Plant height, No. of panicle/hill, 1000 grain wt , grain Yield/ha, Protein(%) and zinc estimation, Pest & disease incidence, B:C ratio ,Farmers reaction,



#### **On Farm Trial – Agronomy**

Title	Evaluation of production potentiality of rice-toria-millet cropping sequence in Kokrajhar district
Problem Diagnosed	The cropping intensity in Kokrajhar district is low i.e. 169 %
Thematic area	Crop diversification
Technology	Rice var. Numoli, Toria var. TS-67, Foxtail millet var. Local Check: Rice-Toria
Source of Technology	AAU, 2021
No. of Trial (Area)	3 (0.6 ha)
Parameters of assessment	Growth parameters, Yield, Diseases & Insect pest, Economics, Farmers feedback

#### **On Farm Trial – Hor<u>ticulture</u>**

Title	Evaluation of Bio-fortified Sweet Potato variety Bhu Sona and Bhu Krishna	Sweet Potato: Bhu Sona (Pure line variety)
Problem Diagnosed	Lack of bio fortified sweet potato variety	β-carotene 14.0 mg/100g
Thematic area	Varietal evaluation	<ul> <li>High β-carotene (14.0 mg/100 g) content as compared to 2.0-3.0 mg/100 g β- carotene in popular varieties</li> <li>Tuber yield: 19.8 t/ha</li> </ul>
Technology	T <sub>1</sub> =Bhu Sona T <sub>2 =</sub> Bhu Krishna T <sub>3 =</sub> Farmer's Variety	<ul> <li>Dry matter: 27.0-29.0%</li> <li>Starch: 20.0%</li> <li>Total sugar: 2.0-2.4%</li> <li>Adaptation: Odisha</li> <li>Developed by ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala</li> </ul>
Source of Technology	ICAR-CTCRI, Kerela , 2017	Sweet Potato: Bhu Krishna (Pure line variety)
No. of Trial (Area)	4 (0.26 ha)	Anthocyanin
Parameters of assessment	Vine length, No. of tubers/plant, Av. Fruit weight, Yield/plant, Yield/ha, Pest & disease incidence, B:C ,Farmers reaction,	<ul> <li>High anthocyanin (90.0 mg/100g) content in comparison to popular varieties which have negligible anthocyanin content</li> <li>Tuber yield: 18.0 t/ha</li> <li>Dry matter: 24.0-25.5%</li> <li>Starch: 19.5%</li> <li>Total sugar: 1.9-2.2%</li> <li>Salinity stress tolerant</li> </ul>

Adaptation: Odisha
Developed by ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala

#### **On Farm Trial – Horticulture**

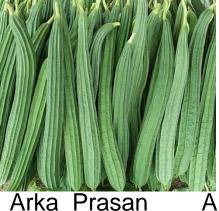
Title	Varietal performance of seedless Water melon variety Arka Madhura
Problem Diagnosed	Preference to seedless fruit if available against the seeded fruit
Thematic area	Varietal evaluation
Technology	T <sub>1</sub> =Arka Madhura T <sub>2 =</sub> Farmer's Variety
Source of Technology	ICAR-IIHR, Bengaluru, 2018
No. of Trial (Area)	4 (0.26 ha)
Parameters of assessment/ refinement	Vine length, No. of fruits/plant, Av. Fruit weight, Yield/plant, Yield/ha, Pest & disease incidence, B:C ,Farmers reaction,



Triploid seedless water melon hybrid between Tetra 1X Arka Manik. Fruits are round with dark green rin colour with light green broad stripes. Crimson red fresh with pleasant aroma with outseeds. TSS 140 Brix, average fruit wt 6 kg, yield 50-60 t/ha in 100-110 days. Longer self life and transport quality.

#### **On Farm Trial – Horticulture**

Title	Varietal performance of Ridge gourd variety Arka Vikram and Arka Prasan		
Problem Diagnosed	Low yield of locally available variety		
Thematic area	Varietal evaluation		
Technology	$T_1$ =Arka Vikram $T_2$ = Arka Prasan $T_3$ = Farmer's Variety		
Source of Technology	ICAR-IIHR, Bengaluru, 2016		
No. of Trial (Area)	4 (0.26 ha)		
Parameters of assessment/ refinement	Plant height, No. of fruits/plant, Av. Fruit weight, Yield/plant, Yield/ha, Pest & disease incidence, B:C ,Farmers reaction,		





Arka Vikram

Early flowering hybrid (42-45 for Arka Prasan and 46 days (Arka Vikram) for first picking), green long tender fruits with excellent cooking quality.
Yield: 26 (Arka Prasan) 30 t/ha (Arka Vikram) in 120-135 days.

#### **On Farm Trial – Soil Science**

Title		Effect of furrow application of lime on growth and yield of potato in acid soil
Thematic area		Nutrient management
Problem diagnosed		Decrease in productivity due to soil acidity and poor use of soil amendments
	To <sub>1</sub>	Lime @ 2 q/ha (based on soil pH) + 50% RDF
Technology	To <sub>2</sub>	RDF (NPK @ 60:100:100 kg/ha)
	To <sub>3</sub>	Farmers practices
Source of technology		ICAR NEH Barapani
No. of trial (area)		5 (0.6 ha)
Parameter for assessment		<ol> <li>Initial and final soil status,</li> <li>crop yield,</li> <li>B:C ratio</li> </ol>

#### **On Farm Trial – Soil Science**

Title		Fertilizer Prescription equations for Targeted Yield of Scented Rice (Kola Joha)
Thematic area		Nutrient management
Problem diagnose	ed	Unaware about judicious fertilizer application
Technology		Targeted Yield 40 q/ha IPNS (N, P and K fertilizer based on soil test values + Vermicompost @ 2 t/ha.). Amount of N, P and K fertilizer will be adjusted after analysis of initial soil and FYM sample
	To <sub>2</sub>	Targeted Yield 40 q/ha Inorganic (Only N, P and K fertilizer based on soil test values)
	To <sub>3</sub>	Farmers practices
Source of technol	ogy	AAU, Jorhat
No. of trial (area)		3 (0.6 ha)
Parameter for assessment		<ol> <li>Initial and final soil samples treatment-wise</li> <li>Grain and straw yield data treatment wise</li> <li>Plant samples at harvest</li> <li>B: C ratio</li> </ol>

## **On Farm Trial – Plant Protection**

Title		Bio-intensive management of Brinjal fruit and shoot borer.	
Thematic a	rea	Biological Control	
Problem diagnosed		Use of wide range of chemicals has been the practices which has increased the cost of production and is affecting the environment.	
Technology	T <sub>1</sub>	<ul> <li>Pinching of first shoots,</li> <li>Release of <i>Trichogramma</i> @ 50,000/ha,</li> <li>Erection of <i>Leucinodes</i> pheromone traps @ 14/ha at a height of 30 cm above crop canopy,</li> <li>Need based one spray of insecticide (Lamda Cyhalothrin 5% EC)</li> </ul>	
	$T_2$	Farmers' practice (Use of wide range of chemicals)	
T <sub>3</sub>		Control	
Source of technology		IIHR, Hissargatha, Bangalore, 2018	
No. of	Area	0.1 ha	
trial	Trial	3	
Parameter for assessment		<ul> <li>No of infected plants</li> <li>Disease incidence (%)</li> <li>Yield,</li> <li>B:C ratio</li> </ul>	

## **OFT – Animal Science**

Title		Breed upgradation of local goat by introducing Beetal buck through cross breeding	Introduction of Large White Yorkshire (LWY) breed of pig	
Thematic are	a	Breed introduction	Breed introduction	
Problem diagnosed		Low productivity of local goat	Low productivity of the indigenous pigs	
Tachnology	<b>T</b> <sub>1</sub>	Cross breeding of beetal buck with local goat	9 nos. LWY piglets (2 F + 1 M)	
Technology	T <sub>2</sub>	Natural mating	Farmers' practice- performance of indigenous pig	
Source of technology		GRS, Burnihat	NRC-Pig, Rani, Assam	
No. of trial		3	3	
Parameter for assessment		<ol> <li>Age at sexual maturity</li> <li>Mature B. wt.</li> <li>Litter size</li> <li>Body weight during birth</li> <li>Mortality</li> </ol>	<ol> <li>Growth performances</li> <li>Age at first heat &amp; conception</li> <li>Litter size</li> <li>Occurrence of diseases</li> </ol>	

#### **On Farm Trial – Community Science**

Title	Effect on tensile strength of Eri yarn after post harvest treatment of cocoon .
Thematic area	Post harvest technology of yarn/fibre
Problem diagnosed	Poor spinning efficiency leads to wastage of cocoon .
Technology/ Social concept	<ul> <li>T<sub>1</sub>-Cooking with Sodium carbonate/ Cooking soda (Alkali)</li> <li>T2- cooking with Plaintain Straw ash extract ( alkali) (1.25%)</li> <li>T<sub>3</sub>- Cooking with paddy straw ash extract (Alkali)(8.75%) .</li> <li>Pre- Treatment- cocoon were soaked in non ionic liquid detergent (slippery substance- easy liquid detergent)(1%) for 12 hours before tretment</li> </ul>
concept	M:L - 1:20 No. of Cocoon: 400 No.s Method: Spinning method. Tool Used: 3 in 1 Solar cum pedal cum electric operated Spinning machine. Cooking time-30 min Temp- 100 C
Source of Tech.	Department of Sericulture, AAU Jorhat.
No. of trial	3 unit
Parameter	Correct cooking condition, Tensile Strength of eri yarn, Breaking elogation, Tenacity, Spinning Efficiency percentage, raw silk percentage of cocoon

#### **On Farm Trial – Community Science**

Title	Influence on shelf life of fresh pea through different blanching timing on different variety of pea.	
Thematic area	Food Preservation	
Problem diagnosed	•Lack of proper processing and handling of perishable vegetables leads spoilage.	
Technology/ Social concept	<ul> <li>T1- Fresh pea blanched for 3 min in open pan and stored .</li> <li>T2- Fresh pea blanched for 5 min in open pan and stored.</li> <li>T3- Fresh pea blanched for 8 min in open pan and stored.</li> <li>T3- Fresh pea without blanching.( control)</li> <li>Temp – 80 degree centigrade.</li> <li>Stored in Deep freezer.</li> <li>Variety- Pea</li> </ul>	
Source of Tech.	Bangladesh Agricultural Research Institute, Gazipur, 2017	
No. of trial	3 no.s	
Parameter	<ol> <li>Percent pod yellowing during storage.</li> <li>Percent pod cracking in storage.</li> <li>Percent pod shrivelling during storage.</li> <li>Pod rottening during storage.</li> <li>Weight loss</li> <li>Sensory quality</li> <li>Shelf life</li> </ol>	

On Farm Trial – Community Science			
Title	Differential feeding pattern of eri silk worm and its effect on cocoon quality in Kokrajhar district.	Total sericulture village In District	
Thematic area	Silk worm rearing	• 535	
Problem diagnosed	Lack of knowledge on standardized feeding pattern effect cocoon quality.	•Eri rearing done is 58%.	
Technology/	<b>T</b> <sub>1</sub> - Feeding on Tapioca leaves.		
Social concept	T <sub>2</sub> - Feeding on Gamari leaves (FP)	% of farmers feed Castor	
	<b>T<sub>3</sub>-</b> Control (Kesseru leaves)	leaves as primary food	
	2 cycles	100%	
Source of Tech.	College of sericulture, AAU, Jorhat.	% of farmers feed kesseru	
No. of trial	3 units	as secondary food is 37%.	
Parameter	Effective rate of rearing, 5 <sup>th</sup> instar Larval weight, mean length of larvae, mean length of silk gland, cocoon weight, shell weight, silk ratio, fecundity and hatchability.	% of farmers feed tapioca and Gamari as tertiary food is 65 and 77	
		respectively	









Feeding pattern of Eri larvae a) Castor Leaf b) Kesseru c) Tapioca d) Gamari.

#### **On Farm Trial – Community Science**

Title	Fusion of traditional motif and design of <i>Rabha</i> and <i>Bodo</i> community of Assam to produce diversified hand-woven products through CATD	
Thematic area	Weaving	
Problem diagnosed	Lack of diversified design limit weavers to weave repetitive design.	
Technology/ Social concept	<ul> <li>T<sub>1</sub>- Fusion of <i>Bodo</i> and Rabha design through CAD technology.</li> <li>Diversified Handwoven products will be</li> <li><i>Sadar mekhela.</i></li> <li>Cushion covers</li> </ul>	
Source of Tech.	<ul> <li>T<sub>2</sub>- Traditional Rabha and Bodo design.</li> <li>TAD, College of Community science, AAU Jorhat.</li> </ul>	
No. of trial	3 unit	
Parameter	<ol> <li>Appropriateness or suitability of motif/ design on particular product(Visual evaluation score test).</li> <li>Arrangement of motif and design</li> <li>Color combination</li> </ol>	



Rabha Design Cushion cov

## **FLD (Discipline–Wise Summary)**

Discipline	Сгор	No. of demos proposed	Discipline	Crop/enterpri se	No. of demos proposed
Agronomy	Rice	5	Animal	Poultry	20
	Jute	5	Science		
Horticulture	Tomato	12			
				Fodder	10
	Strawberry	6			
Soil Science	Rice	10	Community	Eri cocoon	5
Plant Protection	Tomato	10	Science	Solar tent drier	4
	Potato	10			
	Rice	10		Total	113
Fishery Science	Integrated duck fish culture	3			
	Koi fish	3			

## **Front Line Demonstration– Agronomy**

Title	Weed management in direct seeded rice	
Thematic area	Weed management	
Problem diagnosed	Low production due to weed infestation	
Technology	T <sub>1</sub> : Pre emergence application of Pretilachlor @ 750 g/ha within 5 days of sowing followed by post emergence application of bispyribac-sodium @ 25 g/ha at 25 days after sowing in direct seeded rice. T <sub>2:</sub> Farmer's Practice	
Source of technology	AAU, 2021	
Demo (Area)	5 (1.33 ha)	
Parameter for assessment	Growth parameters, yield, weed population, economics	

## **Front Line Demonstration– Agronomy**

Title	INM in Olitorius jute	
Thematic area	INM	
Problem diagnosed	Irrational use of fertilizer	
Technology	T <sub>1</sub> : Application of N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O @ 75, 25 and 25 kg/ha and FYM @ 5 t/ha along with seed treatment with <i>Azotobacter</i> and PSB each @ 50 g/kg of seed for yield maximization of <i>Olitorius</i> jute. T <sub>2:</sub> Farmer's Practice	
Source of technology	AAU, 2021 (RARS, Shillogoni)	
Demo (Area)	5 (1.33 ha)	
Parameter for assessment	Growth parameters, yield, economics	

## **Front Line Demonstration– Horticulture**

Title	Popularization of Tissue culture strawberry variety Sweet Charlie /Winter Dawn
Thematic area	Varietal performance
Technology	Demo: Tissue culture var. Sweet Charlie / Winter Dawn Check var. runner propagated var. Sweet Charlie /Winter Dawn
Source of technology	POP, AAU, Jorhat
Demo (Area)	6 0.30 ha
Parameter for assessment	yield/ha, B: C ratio





## **Front Line Demonstration-Horticulture**

Title	Demonstration on High yielding tomato variety Arka Abhed /Arka Samrat
Thematic area	Varietal performance
Technology	<b>Demo:</b> Arka Abhed /Arka Samrat <b>Check:</b> Farmer's Practice
Source of technology	ICAR-IIHR, Bengaluru, 2018
Demo (Area)	8 0.67 ha
Parameter for assessment	Yield/ha, B: C ratio





## **Front Line Demonstration– Horticulture**

Title	Low cost ripening technology of tomato		
Thematic area	Regulation of ripening (Post harvest technology)		
Technology	Demo:Liquid ethrel @2ml/1cum tentAdd Alkali (NaOH @ 0.25g/every 1ml ethrel)Enclosing time: 24 hoursCheck: Farmer's practice		
Source of technology	ICAR-IIHR,		
Demo (Area)	4 unit		
Parameter for assessment	Uniformity in ripenning, keeping quality, Yield/ha, B: C ratio		



#### **Front Line Demonstration– Soil Science**

Title	Response of Rice to Zn solubilizing bacteria Zn nutrition (Var Ranjit Sub 1)	
Thematic area	Nutrient management	
Problem diagnosed	Low yield due to Zn deficit in soil and unaware about ZSB	
Technology	RD of NPK @ 40:20:20 kg/ha + consortia of ZSB as seedling root dip treatment @ 3.5 kg/ha	
Source of technology	AAU, Jorhat	
Demo (Area)	5 (2.0 ha)	
Parameter for assessment	<ol> <li>Initial and final NPK&amp; Zn status</li> <li>Plant height</li> <li>Total tillers, effective tillers</li> <li>Yield</li> <li>B:C</li> </ol>	



#### **Front Line Demonstration– Soil Science**

Title	Response of K solubilizing bacteria in reduction of potassic fertilizer in Sali rice (Var Ranjit Sub 1)		
Thematic area	Nutrient management		
Problem diagnosed	Unaware about the use of KSB to reduce the chemical fertilizer		
Technology	RD of NPK @ 40:20:10 kg/ha + consortia of KSB as seedling root dip treatment @ 3.5 kg/ha		
Source of technology	AAU, Jorhat		
Demo (Area)	5 (2.0 ha)		
Parameter for assessment	<ol> <li>Initial and final NPK status</li> <li>Plant height</li> <li>Total tillers, effective tillers</li> <li>Yield</li> <li>B:C</li> </ol>		
Response K Solubilizing bacteria in reduction of			

potassic fertilizer in sali Rice KRISHI VIGYAN KENDRA, KOKRAJHAR Assan Agricultural unversity Gossiakaon, reumaa 2020-21

#### **Front Line Demonstration – Plant Protection**

Title         "Amulya Amrit" for disease and pest management in tomat		"Amulya Amrit" for disease and pest management in tomato.	
Thematic area		Biological method	
diagnosed pests and diseases has elevated the problems of health of envir		Year after year application of chemical pesticides for control of insect pests and diseases has elevated the problems of health of environment, human being and other animals.	
Technology	T <sup>1</sup> •A mixture of cow urine (5 litre), cow milk (0.5 litre), curd (0.5 litre) honey (200 g), Puvhan/Malbhog (ripe) banana (5), coconut paste (1 coconut) and Ghee (50 g) are kept in sealed container. This mixture kept in shade covered with wet gunny bag for three days. After three		
	$T^2$	Farmers practice (use of ash/wide range of chemical etc)	
Source of technology		Farm Innovators 2010, ICAR New Delhi	
No. of	Area	0.4 ha	
trial	Trial	10	
Parameter for assessment		•B:C ratio,	

#### **Front Line Demonstration – Plant Protection**

Title		Management of white grub in Potato.			
Thematic a	rea	Biological method			
Problem diagnosed		Large scale destruction of tubers by white grub is affecting the economics.			
Technology	$T^1$	• Soil application of Clothianidin 50 WDG @ 80 g a.i./ha against white grub and other soil insects in potato.			
	$T^2$	Farmers practice (wide range of chemical etc)			
Source of technology		AAU, 2015			
No. of	Area	0.4 ha			
trial	Trial	10			
Parameter for assessment		<ul> <li>Per cent damage,</li> <li>Yield and yield attributes,</li> <li>B:C ratio,</li> <li>Farmers' reaction</li> </ul>			

## **Front Line Demonstration – Plant Protection**

Title		Management of Stem rot disease in <i>Sali</i> Rice.			
Thematic a	rea	Chemical method of pest management			
Problem diagnosed		Recurrent appearance of the disease and ineffective of common nsecticides.			
Technology	$T^1$	<ul> <li>Spraying of Contaf (Hexaconazole) @ 2 ml/litre at the appearance of disease at 5% disease severity (Lesion with Sclerotia)</li> <li>2<sup>nd</sup> and 3<sup>rd</sup> spraying of Contaf at an interval of 10-15 days,</li> </ul>			
	$T^2$	Farmers practice (wide range of chemical etc)			
Source of technology		RARS, Titabor, AAU, 2017			
No. of	Area	0.4 ha			
trial	Trial	10			
Parameter for assessment		<ul> <li>No of Infected plants at 10-15 days interval, (3 observations),</li> <li>Yield record,</li> <li>B:C ratio,</li> <li>Farmers' reaction,</li> </ul>			

### **Front Line Demonstration– Animal Science**

Title	Assessment of productive performance of "Kamrupa" bird under backyard system of rearing.	Popularization of BV 380 chicken in semi intensive rearing		
Problem diagnosed	Low productivity of the indigenous chicken	Low productivity of the indigenous chicken		
Thematic area	Breed introduction	Breed improvement		
Technology	Kamrupa chicken as quality chick inputs	BV 380 chicken as quality chick inputs		
Source of technology	College of Veterinary Science, AAU, Khanapara, Assam	Venkateshwara Pvt. Ltd., Hyderabad		
No of Demo	10	10		
Parameter for assessment	<ol> <li>Weight gain at 30 days intervals</li> <li>Age at 1<sup>st</sup> lay</li> <li>Hens house egg laying</li> <li>Occurrence of diseases</li> <li>B:C</li> </ol>	<ol> <li>Weight gain at 20 weeks</li> <li>Age at 1<sup>st</sup> lay</li> <li>Hens house egg laying</li> <li>Occurrence of diseases</li> <li>B:C</li> </ol>		

## **Front Line Demonstration– Animal Science**

Title	Popularization of oats as fodder
Problem Diagnosed	Low productivity and scarcity of green fodder
Thematic area	Fodder production and quality enhancement
Technology	<ul> <li>-Cultivation of oats (Variety: JHO-99-2)</li> <li>Oat: 13 kg/bigha</li> <li>-25-30 cm (Row-row apart) and in furrows at a depth of 4-5 cm</li> <li>-50 % RD of fertilizer + Vermicompost @ 2.5t/ha + FYM @ 2.5 t/ha</li> <li>-N:P:K:: 9:3:3 (kg/bigha)</li> </ul>
Source of technology	AAU
No of Demo	10
Parameter for assessment	<ol> <li>Green fodder yield</li> <li>B:C</li> </ol>

#### **Front Line Demonstration- Community Science**

Title	Effect of different mountages used in eri cocoon
Thematic area	Silkworm rearing
Problem diagnosed	<ol> <li>Ununiform size of cocoon</li> <li>Low silk percentage due to poor mountage</li> <li>More defective cocoon.</li> </ol>
Technology	Treatment of eri silk yarn with natural mordant. T1-Bamboo mountage. T2- Glossy Paper mountage. T3- Paper cardboard mountage. T4- Plastic net Mountage. T5- Jackfruit leaf mountage. T6- Dry Banana leaf mountage T7- Gamari leaf mountage ( Control)
Source of technology	Department of sericulture, AAU, Jorhat.
No of Demo	5
Parameter for assessment	<ol> <li>Weight of 50 no.s of cocoon/mountage.</li> <li>Pupae weight.</li> <li>Shell weight.</li> <li>Diameter of cocoon.</li> <li>Double Cocoon %</li> <li>Floss Cocoon %</li> <li>Waste cocoon yarn attached in mountage</li> </ol>

#### **Front Line Demonstration- Community Science**

Title	Low cost Solar tent dryer to dry chilly
Thematic area	Energy saving tool / device
Problem diagnosed	<ul> <li>Open drying of chilly are susceptible to contamination with foreign materials, insects and fungal infestation which thrives in moist condition</li> </ul>
Technology	T1- Low cost solar tent dryer Farmers Practice: open drying
Source of technology	CIPHET, Banglore
No of Demo	4
Parameter for assessment	Utility and drying time required. Farmers reaction B:C ratio

## **Front Line Demonstration- Fishery Science**

Title	Integrated duck fish culture	Culture of Koi fish in seasonal pond
Thematic area	Integrated Farming System	Diversified Aquaculture practice
Problem diagnosed	High cost of fish feed, Oxygen depletion of fish pond	
Technology	Raising of duck in pond periphery, Negligible to zero feeding to fish.	Culture of Kawoi fish ( <i>Anabus Spp</i> .) in seasonal ponds, Maintenance of water quality parameter, Feeding with pelleted feed.
Source of technology	POP on Fisheries and Aquaculture in Assam, AAU, Jorhat	POP on Fisheries and Aquaculture in Assam, AAU, Jorhat
Demo (Area)	3 (0.39 ha)	3 (0.09 ha)
Parameter for assessment	<ol> <li>Yield per Ha</li> <li>Average weight gain of duck &amp; Egg production.</li> <li>BCR</li> </ol>	<ol> <li>Yield per Ha</li> <li>Average weight gain of Koi fish</li> <li>BCR</li> </ol>

## **Training Programmes (Farmers)**

Discipline		Farmer Beneficiaries (Nos.)				
	Course (No.)	On	Off	Vocational	Total	
Agronomy	9	-	200	25	225	
Horticulture	7	-	125	50	175	
Soil Science	9	_	225	-	225	
Plant protection	6	-	150	-	150	
Animal science	7	25	150	-	175	
Community						
Science	5	75	50	-	125	
Fishery Science	9	9	200	25	225	
Total	52	100	1100	100	1300	

## **Training Programmes (Rural Youth)**

Discipline		Rural Youth Beneficiaries (Nos.)				
	Course (No.)	On	Off	Voc.	Total	
Agronomy	2	-	50	-	50	
Horticulture	4	75	-	20	95	
Soil Science	2	-	25	15	40	
Plant protection	5	-	75	50	125	
Animal science	4	50	25	10	85	
Community Science	5	25	50	30	105	
Fishery Science	2	-	50	-	50	
Total	24	150	275	125	550	

## **Training Programmes (Extension Personnel)**

Discipline		Extension Functionaries (Nos.)				
	Course (No.)	On	Off	Total		
Agronomy	1	25	-	25		
Horticulture	1	-	20	20		
Soil Science	1	-	25	25		
Plant protection	2	-	50	50		
Animal Science	1	25	-	25		
Community Science	2		50	50		
Fishery Science	1	25	-	25		
Total	9	75	145	220		

## **Extension Activities**

Extension	Nos.		Total		
Activity	Proposed	Farmers	Extn. Personnel	Rural Youth	
Diagnostic visit	110	200	-	100	300
Advisory service	400	250	-	150	400
Training Manual	9	125	25	75	225
Celebration of Important days	6	200	30	70	300
Exhibition	4	250	50	100	400
Exposure visit	8	100	-	50	150
Extension / technical bulletin	16	-	-	-	-
News letter	1	-	-	-	-
News paper coverage	26	-	-	-	-
Research publications	9	-	-	-	-
Success stories	12	-	-	-	-
Farm Science Clubs' Convenors meet	4	150	-	50	200
Farmers' Seminar	4	100	-	100	-
Ex-trainees' meet	2	200	-	50	250
Field day	22	600	40	200	840

### **Extension Activities**

Extension Nos. Beneficiaries (No.) Total						
Extension	Nos.		Total			
Activity	Proposed	Farmers	Extn. Personnel	Rural Youth		
Film show	4	250	-	150	400	
Radio Talk	24	-	-	-	-	
TV talk	3	-	-	-	-	
Kishan Goshthi	4	200	-	100	300	
Group Meeting	15	275	-	100	375	
Kishan Mela	3	250	25	100	375	
Soil Health Camps	1	75	5	20	100	
Awareness camp	10	150	20	50	220	
Method demonstration	25	400	-	200	600	
Scientists' visit to farmers' field	175	100	-	75	175	
Workshop/ Seminar	8	200	-	50	250	
Soil Testing	500	500	-	-	500	
Water Testing	50	25	-	25	50	
Plant Testing	50	25	-	25	50	
Manure Testing	50	25	-	25	50	
SMS Service	110	1000	-	400	1400	
Farmers' Scientist Interaction	15	175	25	75	275	

#### SEED MATERIALS

Item	Сгор	Variety	Proposed quantity		
Cereals	Paddy	Ranjit Sub-1	180.0 q		
		Gitesh	3.0 q		
		Numali	5.0 q		
	Buckwheat	Local	12.0 q		
	Finger Millet	Local	6.0 q		
Oilseed	Sesame	Koliabor Til	1.0 q		
	Niger	NG-1	5.0 q		
	Toria	TS-67	10.0 q		
	Linseed	Sekhar	8.0 q		
Oilseed	Rapeseed	TS-67/ TS-36	480.0 q		
(CFLD)	Linseed	Sekhar	80.0q		
	Sesamum	Koliabor Til	70.0 q		
Pulse (CFLD)	Blackgram	PU-31	160.0 q		
	Lentil	HUL-57	90.0 q		
Spices	Turmeric	Megha Turmeric-1	15 q		
Fibre crops	Mesta	HC-583	Seed- 0.50 q		
Total			1125.5 q		

## PLANTING MATERIALS

ltem	Сгор	Variety	Proposed quantity (Nos.)			
Fruits	Citrus	Assam lemon	2000			
	Banana	G Naine	100			
	Coconut	Kamrupa	30			
Vegetables	Cabbage	-	5000			
	Cauliflower	-	5000			
	Brinjal	-	5000			
	Chili	-	3000			
	Brocolli	-	2000			
Others -	Gerbera	Red gem	500			
	Gladiolus	Many var	200			
	Mussenda	-	200			
Total			23030			

## **BIO-PRODUCTS**

ltem	Product Name	Species	Proposed	l quantity
			No.	Kg.
<b>Bio-agents</b>	-	-	-	-
<b>Bio-fertilizers</b>	Azolla	A Nilatica	-	3000
Livestock strains	Pig Goat		12 8	
Others	Vermicompost	-	-	1000
Total			20	4000

## Soil & Water Sample Analysis / Soil Health Cards (SHCs)

SI.	Samples	Nos. of	Target of	Village to be	SHCs to be	
No.		samples	Farmer	covered	issued to	
		targeted	beneficiaries		farmers (Nos.)	
1.	Soil sample	500	500	25	500	
2.	Water sample	50	50	5	50	
3.	Plant sample	50	50	10	50	
	Total	600	600	40	600	

## Mobile Advisory for 2022-23

Messag	g Crop		Live	estock	We	eather	Ma	rketi	Awar	eness	Ot	ther	-	Fotal
e type								ng			Enterprise			
sent	No.	No. of	No	No.	No	No. of	Ν	No.	No.	No.	No.	No. of	No.	No. of
	of	Ben	. of	of	. of	Benef	0.	of	of	of	of	Benef	of	Benefi
	Me	eficiar	Μ	Benef	Me	iciary	of	Ben	Mes	Bene	Mes	iciary	Me	ciary
	ssa	У	ess	iciary	ssa		Μ	efi	sage	f	sage		ssa	
	ge		ag		ge		es	ciar		iciar			ge	
			е				sa	у		У				
							ge							
Text	90	10863	20	2414	20	24140	5	603	5	6035	10	12070	150	18105
only		0		0				5						0
Voice	20	24140	5	6035	5	6035	-	-	-	-	10	12070	40	48280
only														
Voice	-	-	-	-	-	-	-	-	-	-	-	-	-	-
and														
Text														
both														
Total	110	132770	25	30175	25	30175	5	6035	5	6035	20	24140	190	229330

