

Annual Action Plan (2019-20)

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On Farm Testing (Discipline–Wise Summary)

Discipline	Сгор	Trials	Discipline	Crop/enterprise	Trials
Agronomy	Linseed-chickpea	3	Plant	Ginger	3
	Blackgram	3	Protection	Potato	3
	Toria	3		Brinjal, Chilli, Tomato	3
	Linseed	3	Animal	Poultry	3
	Mustard	3	Science	Pig	3
				Turkey	3
Horticulture	Tomato	3	Community Science	Storage of tomato	4
	Реа	3		Storage of pulses	4
	Strawberry	3		Hand woven fabric	4
	Chilli	5		Union fabric	3
Soil Science	Rice	9		Water purification	3
	Реа	3		Castor trap	3
	Toria	3			
Total					83

On Farm Trial – Agronomy

Title		Intercropping of linseed and Chickpea	Weed management in Kharif Blackgram
Thematic area		Crop Management	Weed Management
Problem diagnosed		Low income due to single crop production	Low production due to weed infestation
Technology		Intercropping of linseed with chickpea (4:2)with variety Shekar and chickpea variety BG-256 Seed rate: Linseed : 20kg/ha Chick pea : 60 kg/ha	Pre-emergence application of pendimethalin 2 1 kg/ha
	T ₂	Farmer practice	Farmer practice
Source of technology		AAU (RARS, Shillongani)	AAU (RARS, Shillongani)
No. of trial (Area)		3 (1.0 ha)	3 (1.0 ha)
Parameter for assessment		 Seed yield (q/ha) B:C 	Weed population and dry matter accumulation, weed control efficiency, Date of sowing and harvest, plant height, plant stand, seed yield and B:C

On Farm Trial – Agronomy

Title		Varietal performance of late sown Toria variety Jeuti (JT-90-1)	Effect of mulching in linseed	
Thematic area		Varietal performance	Crop Management	
Problem diagnosed		Low production due to late sowing	Low production due to weed infestation and lack of moisture	
Technology	T ₁	Toria variety Jeuti (JT-90-1)	Rice stover/ straw mulching @ 10t/ha immediately after sowing	
	T ₂	Local variety	Farmer practice	
Source of technology		AAU, Jorhat	AAU (RARS, Shillongani)	
No. of trial (Area)		3 (1.0 ha)	3 (1.0 ha)	
Parameter for assessment		 Seed yield (q/ha) B:C 	Soil moisture before sowing and after harvest, Incidence of pest & disease, Yield and yield attributing characters, B:C	

On Farm Trial – Agronomy

Title		Varietal performance of Mustard variety NRCHB101	
Thematic area		Varietal performance	
Problem diagnosed		Low production due to pre monsoon shower during maturity stage	
Tachnology	T ₁	Mustard variety NRCHB101	
тесппотоду	T ₂	Local variety	
Source of technology		AAU (RARS, Shillongani)	
No. of trial (Area)		3 (1.0 ha)	
Parameter for assessment		 Seed yield (q/ha) B:C 	

On Farm Trial – Horticulture

Title	Varietal performance Tomato variety Arka Vikas/Arka Samrat	Varietal performance on dual purpose Pea variety Arka Apoorva
Problem Diagnosed	Unavailability of suitable variety during kharif season	Lack of dual purpose and powdery mildew resistance variety
Thematic area	Varietal evaluation	Varietal evaluation
Technology	T ₁ = Arka Vikas/Arka Samrat T ₂ = Farmers variety	Demo -Arka Apoorva Farmers practice- Farmers variety
Source of Technology	IIHR, Bengalore	IIHR, Bengalore
No. of Trial (Area)	4 (0.26 ha)	4 (0.26ha)
Parameters of assessment/ refinement	Plant height , fruits/plant, Yield/plant, Yield/ha, B:C , Pest & disease incidence	Plant height , pods/plant, Yield/plant, Yield/ha, B:C , Pest & disease incidence

On Farm Trial – Horticulture

Title	Varietal performance of tissue culture strawberry variety	Varietal performance of dual purpose chilli variety Arka Meghana
Problem Diagnosed	Low yield of runner propagated plants	Low yield of local chilli varieties
Thematic area	Varietal evaluation	Varietal evaluation
Technology	T_1 =Tissue culture strawberry variety (Sweet Charlie, Winter Dawn, Caramosa & Pajaro) T_2 = Conventional plants	T ₁ = Arka Meghana T ₂ = Farmers/local variety
Source of Technology	TERI, New Delhi	IIHR, Bangalore, 2014
No. of Trial (Area)	3 (0.26 ha)	5 (0.13 ha)
Parameters of assessment/ refinement	Plant height , Yield/plant, Av. Fruit weight, Yield/ha, B:C , Pest & disease incidence (botrytris and anthracnose fruit rot)	Plant height , Yield/plant, Av. Fruit weight, Fruit size, Yield/ha, B:C , Pest & disease incidence

			On Farm Trial – Soil S	Science	
Title			Root –dipping in SSP-MC slurry method of P management	Seed priming for improving crop productivity and nutrient efficiency in acid soils.	
Thematic area			Soil management	Soil management	
Problem diagnosed			Widespread deficiency of P in acidic soil. Al and Fe induced P deficiency	Widespread deficiency of P and Zn in acid soils of Assam.	
Technology		T ₁	A mud slurry with 7 kg SSP + 4 kg MC bio-fertilizer + 5 kg compost +50 % RD of urea and MOP +125 kg Rock phosphate	Seeds are soaked overnight in nutrient solution (1 % ZnSo ₄ .7H ₂ O and 1 % KH ₂ PO ₄)	
		T ₂	Recommended doses of NPK + Compost	RD of NPK	
		T ₃	Without fertilizer (Control)	Farmers practice	
Source of technology			CAU	ICAR (NEH region)	
No. of	Are	а	0.6 ha	0.6 ha	
trial	Tria		3	3	
Parameter for assessment			 Root growth parameters at 4 to 45 DAT No of effective tillers per hill Nos of grain per panicle Grain yield 	 Germination (%) Days to 50% germination Plant height Days to flowering/maturity Yield 	

			On Farm Trial	- Soil Science	
Title			Combined effect of S and B on toria	Response of Rice to Zn solubilizing bacteria Zn nutrition	
Thematic area		ea	Soil management	Nutrient management	
Problem diagnosed			Imbalance application of fertilizer	Low yield due to Zn deficit in soil and unaware about ZSB	
Technology T ₂		T ₁	State recommendation	RD of NPK @ 40:20:20 kg/ha + consortia of ZSB as seedling root dip treatment @ 3.5 kg/ha	
		T ₂	S @ 20 kg/ha + B @ 1.5 kg/ha + RD of NPK	RD of NPK @ 40:20:20 kg/ha + ZnSO ₄ . 7H ₂ O @ 25 kg/ha	
		T ₃	Farmers practices	Farmers practices	
Source of technology			AAU, Jorhat	AAU, Jorhat	
No. of	Area)	0.6 ha	0.6 ha	
trial	Trial		3	3	
Parameter for assessment			 Initial and final NPK ,S& B status Plant height Seed per siliqua Seed and stover yield B:C 	 Initial and final NPK& Zn status Plant height Total tillers, effective tillers Yield B:C 	

On Farm Trial – Soil Science

Title			Response of K solubilizing bacteria in reduction of potassic fertilizer in Sali rice (Var Ranjit)			
Thematic area		ea	Nutrient management			
Problem diagnosed			Unaware about the use of KSB to reduce the chemical fertilizer			
Technology T ₂		T ₁	RD of NPK @ 40:20:10 kg/ha + consortia of KSB as seedling root dip treatment @ 3.5 kg/ha			
		T ₂	RD of NPK @ 40:20:20 kg/ha			
		T ₃	Farmers practices			
Source of technology			AAU, Jorhat			
No. of	Area	3	0.6 ha			
trial	Trial		3			
Parameter for assessment		or	 Initial and final NPK status Plant height Total tillers, effective tillers Yield B:C 			

		On Farm Trial – Pla	nt Protection
Title		Management of rhizome rot of ginger	Management of late blight of potato
Thematic ar	ea	Integrated disease Management	Integrated disease Management
Problem dia	gnosed	Heavy infestation of ginger crop and high crop loss.	Recurrent appearance of the disease and high crop loss
Technology	, ,	Rhizome treatment with copper oxychloride (COC) @ 3g/lit + Streptomycin (0.2g/lit) for 45 minutes, shed drying and planting:; 2 soil drenching with COC @3g/L at 60 &90 days after planting)	 1st spraying of Mancozeb 75 % @0.25 % (2.5g/litre) at canopy closure (35-40 days after planting) 2nd spraying of Cymoxanil 8 % + Mancozeb 64% @ 0.25 % (2.5g/litre) at first appearance of the disease. 3rd spraying of Mancozeb 75% @ 0.25% (2.5g/litre) after 10 days of 2nd spraying, 4th spraying of Cymoxanil 8 % + Mancozeb 64% 0.25% (2.5g/litre) after 10 days of 3rd spraying
	T ₂	Farmers practice	Farmers practice
Source of te	chnology	AAU, Jorhat, 2015	AAU, Jorhat, 2015
No. of	Area	0.4 ha	0.4 ha
trial	Trial	3	3
Parameter for assessment		•No of infested plants•Yield record,•B:C	 Number of infected plants, Yield B: C Farmers' reaction

On Farm Trial – Plant Protection

Title		Management of bacterial wilt of brinjal, chilli and tomato		
Thematic area		Integrated pest Management		
Problem diagnosed		Heavy damage to the crops due to bacterial wilt		
Technology		 Seed treatment with streptocycline (1gm/40 L water) for 30 mins. Roguing of wilted plants 		
	T ₂	Farmers practice		
Source of techno	ology	CAU, Pashighat		
No oftrial	Area	0.2 ha		
NO. OF that	Trial	3		
Parameter for assessment		No of wilted plantsNo of damaged fruitsB:C		

		On Farm Trial –Anir	nal Science	
Title		Introduction of ' <i>Kadaknath</i> ' chicken under backyard system of management condition	Introduction of HD-K75 breed of pig under intensive system	
Thematic are	a	Breed introduction	Breed introduction	
Problem diagnosed		Low productivity and meat quality of indigenous chicken	Low productivity of the indigenous pigs	
Technology	T ₁	Kadaknath chicks as quality inputs	9 nos HD-K75 piglets (3 Male + 6 Female)	
	T ₂	Indigenous chicken	Farmers' practice- performance of indigenous pig	
Source of technology		Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior, Madhya Pradesh	College of Veterinary Science, AAU, Khanapara, Assam	
No. of trial		3	3	
Parameter for assessment		 Weight gain by the birds Age at 1st lay Hen day egg production Hens house egg production B:C 	 Growth performances Age at first heat Nos. of piglets born per farrowing Occurrence of diseases 	

On Farm Trial – Animal Science

Title		Breed introduction of Turkey in Kokrajhar district (Breed: Broad breasted white and Broad Breasted bronze)	
Thematic area		Breed introduction	
Problem diagnosed		Farmers are unaware about Turkey farming	
Tashnalasu T ₁		Artificial brooding for 20 days and will be reared under backyard system	
lecillology	T ₂	First time in the District	
Source of technology		CARI, ICAR	
No. of trial		3	
Parameter for assessment		 Body weight at distribution Mortality(%) Weight of the Tom at slaughtering age (7 months) Dressing (%) Age at onset of egg laying Weight of the egg No. of egg laid/annum Hatchability of the egg 	

On Farm Trial – Community Science & Plant Protection.

Title	Fermented castor solution trap in organic farming.	Safe storage of pulses using mixture of sand layer and dry leaves
Thematic area	Organic pest management	Storage techniques
Problem diagnosed	High use of chemical pesticide.	Pulses are more susceptible to bruchid infestation.
Technology/ Social concept	 T₁: 5 kg of castor seeds + 5 lit water= Fermentation for 10 days. Place the 5 mud pots capacity - 5 Lit) in 1 ace field. Add 2 litre of fermented solution to each pot and fill the remaining portion with water. The foul smell attracts the pests towards it. 	 T₁- Sun-drying of pulse grains in black tarpaulin / black polyethylene (3-5 days) ii) Dried pulse are stored in plastic or metal bin. iii) Mixture of dry sand and dry leaves of neem, fern, custard apple, Ipomia madar and curry leaves matter about one inch thick layer uniformly on the top of the grain surface.
	T ₂ : Without treatment	T ₂ : Stored in gunny bags
Source of Tech.	Farmers ITK	Farmers ITK
No. of trial	3 unit	4 unit
Parameter	 Types of pest insect trapped Farmers preference (9 point Hedonic scale) B: C 	Shelf life of pulses B: C

	On Farm Trial – Communi	ty Science
Title	Product Diversification of <i>Rabha</i> design for different household furnishings and dress.	Union fabric from noil eri yarn.
Thematic area	Product diversification	Value addition
Problem diagnosed	Low Market Value of Hand-woven fabric. Non inclusion of elements and principal of design.	Noil eri yarns are short fibre and treated as waste yarn. Fabric were made out noil yarn are poor durability.
Technology/ Social concept	T₁- <i>Rabha</i> Design in Household furnishings <i>viz</i> . bed spread, curtains, tie, File cover.	 T₁- Union fabric 1. Cotton with Noil eri yarn 2. Polyester with noil eri yarn 3. Wool with noil eri yarn
	Farmers Practice. Handloom bed spread, curtain, tie and file cover	Farmers Practice. Noil yarn fabric.
Source of Tech.	Farmers ITK	Farmers ITK
No. of trial (Area)	4 unit	3 unit
Parameter	 Color Scheme & Principal of design. B:C ratio Weavers reaction and acceptability in 9 point hedonic scale. 	 Effect on Texture, drapability lustre and durability. B: C ratio.

On Farm Trial – Community Science

Title	Storage of tomato through air hanging stalks.	Effect of <i>Moringa oleifera</i> (Drumstick) seed in cleaning water.
Thematic area	Storage Technique	Water purification
Problem diagnosed	Poor storage technique leads to spoilage. Cold temperature leads to loss of taste and juiciness of fruit.	 Wage workers especially belongs to BPL family drink unhygienic water and thus more susceptible to various water born diseases Use of highly turbid and untreated pathogenic surface water leads to various diseases. Further Costly Aluminum sulfate has many health hazards.
Technology/ Social concept	 T₁- Hanging of tomatoes tied at stalk <u>Measurement:</u> 6 feet height from ground level, 2 feet below roof. Thick cotton cloth ceiling 1.5 feet below the roof Rope of 1-2 cm diameter is tied in bamboo pole T₂: Without treatment. 	Treat Low, medium and high turbidity water with seeds kernel of Moringa <u>Dose:</u> Low turbidity 1 seed / 4 liter Medium turbidity- 1 seed / 2 liter High turbidity- 1 seed / 1 liter Extreme Turbidity- 2 seed /1 liter Without treatment (control)
Source of Tech.	Farmers ITK, Tripura	Farmers ITK
No. of trial	4 unit	4 unit
Parameter	 Shelf life of tomato. Percent change in income. Taste and texture of tomato. 4. B:C 	 Cleaning of water Percentage of bacteria present in water after treatment

FLD (Discipline–Wise Summary)

Discipline	Сгор	No. of demos proposed	Discipline	Crop/enter prise	No. of demos proposed
Agronomy	Mesta	5	Plant	Arecanut	5
	Sali Rice	3	Protection	Storage	10
	Hybrid Rice	5		Cole crops	3
Horticulture	Pumpkin	4		Mushroom	10
	Banana	6	Animal Science	Pig	5
	Marigold	6		Dairy	6
	Cabbage+ Onion	6		Japanese Quail	5
Soil Science	Lentil	5	Community Science	Solar tent drier	4
	Rice	5		Sheller	8
	Foxtail millet	5		Natural dye	9
Total					115

Front Line Demonstration– Agronomy

Title		Enhancement of retting process and fibre quality of Mesta through application of Microbial Consortia	Varietal performance of Sali rice (Var Numali)	
Thematic area		Microbial management	Varietal performance	
Problem diagnosed		Low quality of fibre due to faulty retting process	Low yield due to local variety	
Technology	T ₁	Application of Microbial Consortia @ 2 kg /0.26 ha of Mesta	Variety: Numali	
	T ₂	Farmer's practice	Local variety	
Source of technology		CRIJAF, ICAR, Barrackpur	RARS, Titabor	
No of Demo (Area)		5 (2.0 ha)	5 (2.0 ha)	
Parameter for assessment		 Fibre quality B.C. 	 Grain Yield (q/ha) B:C 	

Front Line Demonstration– Agronomy

Title		INM in Sali rice
Thematic area		Nutrient management
Problem diagnosed		Irrational use of chemical fertilizer
Technology		Organic manure @ 1 t/ha (on dry weight basis) mixed inocula of <i>Azospirillium</i> <i>amazonense</i> A-10 and <i>Bacillus megaterium P-5 @ 4 kg/ha (0.4 to 0.5 kg/</i> bigha), rock phosphate @ 10 kg P ₂ O ₅ (56 kg/ha or 7.5 kg/ bigha), MOP @ 40 kg K ₂ O/ha (67 kg Potash/ha or 9 kg/bigha)
	T ₂	Farmer's practice
Source of technology		AAU, Jorhat
No of Demo (Area)		3 (2.0 ha)
Parameter for assessment		 Grain yield (q/ha) B:C

Front Line Demonstration– Horticulture

Title	Demonstration on commercial cultivation of Pumpkin Hybrid variety Arjuna F1	Popularization of Tissue culture Banana (VarGrand Naine)
Problem Diagnosed	Low yield of existing varieties	Susceptibility of existing variety to Panama Wilt
Thematic area	Varietal evaluation	Tissue culture
Technology	Demo Arjuna F1 Check var. Other hybrid	Demo var. Grand Naine Farmers practice : Jahaji
Source of Technology	AAU (Deptt. Of Hort.)	AAU (Deptt. Of Hort.)
No. of demos Area (ha)	4 (0.26ha)	4 (0.13ha)
Parameters of	yield/ha	Yield/ha
assessment	B:C	B:C

Front Line Demonstration– Horticulture

Title	Demonstration on intercropping of onion in cabbage	Performance of Summer Marigold var. Seracole
Problem Diagnosed	Non adoption of intercrops in vegetables	Unavailability of summer season marigold variety
Thematic area	Cropping system	Varietal evaluation
Technology	Demo: Intercropping of onion in cabbage Farmers practice: No intercropping	 T₁= Summer Marigold var. Seracole T₂= Conventional flower crop
Source of Technology	Farmers innovation	AAU Jorhat
No. of demos Area (ha)	4 (0.13)	3 (0.13 ha)
Parameters of assessment	Crop Duration, yield/ha, B: C ratio	Plant height, Days to 50% flowering, No. of flower, flower yield/ha, Pest infestation, Disease infestation
	B:C	B: C

Front Line Demonstration– Soil Science

Title	Foliar nutrition of lentil	Combined application of zinc and boron on rice (Var.: Ranjit)
Thematic area	Nutrient management	Soil management
Problem diagnosed	Poor availability of nutrient and low yield	Soil mining due to no application of micronutrient.
Technology	Two sprays of 2% urea at branching (35 DAS) and pod initiation (75 DAS) stage	1.5 Kg B/ha + 5 kg Zn/ha +RD of NPK
Source of technology	Farmer's practice	AAU, Jorhat
Demo (Area)	RARS, Shillongani	5 (1.5 ha)
Parameter for assessment	5 (2.0 ha)	 1.Initial and final status in soil (NPK,Zn,B) 2. Growth parameters of crop (Plant height, Leaf no) 3. Yield attributing character(Fruit no/Plant) 4.B: C

Front Line Demonstration– Soil Science

Title	Nutrient management in Foxtail millet	
Thematic area	Soil health	
Problem diagnosed	Non judicious application of fertilizer	
Technology	Crop: Foxtail millets N:P:K @ 20:10:10 kg/ha as basal dose	
Source of technology	RARS, Gossaigaon, AAU	
Demo (Area)	5 (1.5 ha)	
Parameter for assessment	 Initial &final soil NKP status Growth parameters Yield B:C 	

Front Line Demonstration– Plant Protection

Title	Management of basal stem rot (Ganoderma) disease in arecanut	Safe storage of grains using hermetic storage bags
Thematic area	Integrated disease Management.	Integrated Pest Management
Problem diagnosed	Large mortality of arecanut plants because of the disease (upto 65 %).	Damage to the grains & seeds by stored grains pest
Technology	 T₁- Soil drenching with calixin (Tridemorph) (0.3%) @ 10 l/palm at quarterly interval, Application of neem cake (2 kg/palm/ year) fortified with <i>T.viride</i> (100g/palm/year) T₂-Farmers practice 	T ₁ - Multilayered air tight bags. T ₂ -Farmers practice
Source of technology	CPCRI, Kahikuchi centre	Pest Control India, Mumbai
Demo (Area)	5 (150 PLANTS)	10 (10 places)
Parameter for assessment	 Wilting of leaves, Appearance of dull brownish patch at the base of the nut, Nut yield, B:C 	 % Insect Infestation after 6 months, % insect infestation after 1 year Germination %

Front Line Demonstration- Plant Protection

Title	Biointensive IPM package for the pests of cole crops	Organic oyester mushroom production		
Thematic area	Biological control	Organics		
Problem diagnosed	DBM/cabbage butterfly are least responsive to chemical control methods which resulted in more number of spraying	Flooding of local market with chemical based oyester mushroom from Bengal area		
Technology	 Border plantation of mustard crops against <i>Plutella xyllostella</i> (DBM) as trap crop, Release of <i>Trichogramma chilonis,</i> <i>T.brassicae</i> at different stages of crop and at different intervals Mechanical collection of larvae, Spraying of BT and NSKE at different intervals 	 Boiling of soaked straw for 30 mins. Filling up of polythene bags with straw & spawn Hanging of the bags Maintain 22-25°C temperature and 85-90 % RH 		
Source of technology	NBAII, Bangalore	ICAR-National Organic Farming Research Institute		
Demo (Area)	3(0.2 ha)	10 (10 units)		
Parameter for assessment	 Population of natural predators, Mummified larvae, Yield B:C ratio 	 Days taken for spawn run Days taken for pin head formation Yield data Time taken for I, II & III flush 		

Front Line Demonstration– Animal Science

Title	Popularization of rearing of Japanese Quail bird	Control of Endo Parasitic infestation of cattle using Levamisole Hydrochloride and Oxyclozanide
Problem diagnosed Thematic area	Lack of knowledge about Quail farming Breed introduction	Lack of knowledge about deworming Healthcare
Technology	Quail bird as quality chick inputs	Commercially available Levamisole Hydrochloride @ 7.5 mg/Kg B.Wt and Oxyclozanide @ 18.7mg/Kg B.wt two doses at two days apart
Source of technology	CARI, Izatnagar	College of Veterinary Science, AAU, Khanapara.
No of Demo	5	6
Parameter for assessment	 Weight gain by the birds at 15 days intervals Hen day egg laying Hens house egg layings Occurrence of diseases B:C 	 Faecal test before & after treatment Milk production RE of Blood B:C

Front Line Demonstration– Animal Science

Title	Evaluation of new improved crossbred verities of pig "Rani" in Kokrajhar district for meat purpose			
Problem Diagnosed	Low productivity of indigenous breed			
Thematic area	Breed introduction			
	-Piglets will be reared in intensive system			
Technology	 Locally available low cost feed and kitchen wastage will be provide as ration 			
	-Vaccination and iron supplementation will be done at proper age as per schedule			
Source of technology	NRC, Pig			
No of Demo	5			
Parameter for	1. Litter size at birth and weaning			
assessment	2. Litter weight at birth and weaning			
	3. Age at onset of estrus			
	4. Gestation length, Mortality rate			
	5. Weight at marketing age,			
	6. Diseases incidence, B: C			

Front Line Demonstration- Community Science

Title	Low cost Solar tent bamboo dryer to dry fermented bamboo shoot /chilli etc	Maize Sheller
Thematic area	Use of renewable energy source.	Drudgery reduction
Problem diagnosed	 Open drying leads to uneven and incomplete dehydration. Open sun dried products are more susceptible to contamination and pest attack. 	Use of traditional method of shelling maize leads to swelling and pain in hand & wrist
Technology/ Social concept	Technology/ Social concept T ₁ - Low cost solar tent dryer T ₂ - Farmers Practice	
Source of technologyMANIT Bhopal, 2014		AICRP, Bangalore
No. of demo	5	8
Parameter	Utility and time required. Farmers reaction B:C	Utility and Time required. Farmers reaction

Front Line Demonstration- Community Science

Title	Application of Natural dye on cotton yarn				
Thematic area	Organic dye introduction/ utilization				
Problem diagnosed	 High cost of synthetic dye Non use of locally available natural dye unaware about Eco friendly fibre/fabric 				
Technology/ Social concept	Dying cotton yarn with -Plaintain -Turmeric -Rice straw with raw arecanut -Tea Leaves with Alum as mordant				
Source of technology	AAU, Jorhat				
No. of demo	9				
Parameter	Color fastness to sunlight, washing and pressing, intensity of color				

Training Programmes (Farmers)

Discipline		Farmer Beneficiaries (Nos.)			
	Course (No.)	On	Off	Vocational	Total
Agronomy	7	25	150	-	175
Horticulture	7	-	100	75	175
Soil Science	8	75	125	-	200
Plant protection	6	-	150	-	150
Animal science	7	50	125	-	175
Community					
Science	10	125	125	-	250
Total	45	275	775	75	1125

Training Programmes (Rural Youth)

Discipline		Rural Youth Beneficiaries (Nos.)			os.)
	Course (No.)	On	Off	Voc.	Total
Agronomy	4	-	75	20	95
Horticulture	4	50	25	20	95
Soil Science	3	-	50	20	70
Plant protection	4	-	50	40	90
Animal science	4	-	75	20	95
Community Science	6	50	50	40	140
Total	25	100	325	160	585

Training Programmes (Extension Personnel)

Discipline		Extension Functionaries (Nos.)		
	Course (No.)	On	Off	Total
Agronomy	1	-	25	25
Horticulture	1	-	25	25
Soil Science	1	-	25	25
Plant protection	2	-	50	50
Animal Science	1	-	25	25
Community Science	2		50	50
Total	8	0	200	200

Extension Activities

Extension	Nos.		Beneficiaries (No.)	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
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	550	550	-	-	550
Water Testing	50	25	-	25	50
Plant Testing	100	50	-	50	100
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
		Bahadur Sub 1	3.0 q
		TTB 404	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 quantity	
			No.	Kg.
Bio-agents	-	-	-	-
Bio-fertilizers	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 2019-20

Messag	Crop		Livestock		Weather		Marketi		Awareness		Other		Total	
e type								ng			Ente	rprise		
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

Thank you... for patience listening