ACTION PLAN (2025-26)











Presented by
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Action Taken Report on Last Year Annual Action Plan Workshop

estion	Action taken
on Dholi to be conducted with Bina 11/CR 801/ CR 802 as check along with variety as FP	**OFT on Dholi was conducted with Bin Dhan 11 as check**
on IPM in Citrus to be converted to FLD	**FLD on IPM in Citrus conducted title "Insect Pest Management of Assam Lemon "**
OFT on IDM in Potato new variety d be included instead of Kufri Jyoti	**the OFT on IDM in Potato conducted with new variety Pokhraj**
on Arecanut- Blackpepper should be in storey cropping	**FLD on Arecanut- Blackpepper condu titled "Demonstration on Integration Blackpepper in Arecanut orchard at farmers level"**

strict Features

gro climatic zone	**:** Lower Brahmaputra Valley Zone
o. of Villages	**:** 508
o. of Holdings	**:** 75542
eographical area(ha)	**:** 192300
ross cropped area (ha)	**:** 75703
rea under irrigation (%)	**:** 7865 ha (4.09%)
ources of irrigation	**:** Natural Stream (Dong), Solar Irrigation
lajor Soil types	**:** New and old alluvial soils
lajor crops in Rabi	**:** Vegetables, Rapeseed, Lentil. Niger, Buckwhea
lajor crops in Kharif	**:** Rice, Jute, Sesame, Blackgram
lajor Livestock details	: Dairy, Piggery, Poultry, Goatery

Summary of On Farm Trial

Discipline	No of Technology	No of farmer
Agronomy	2	6
Horticulture	2	6
Plant Protection	3	9
Soil Science	2	6
Animal Science	2	6
Total	11	33

On Farm Trial (Discipline: Agronomy)

1st year

ic area	:	Varietal Performance
OFT	:	**Comparative performance of newly developed high yielding *sa* varieties "Prachur" and "Shatabdi" in Chirang district of Assa**
n diagnosed	:	Low yield of fine grained local varieties
ogy details	:	Variety: Prachur & Shatabdi Crop duration:150-155 days Yield:60- Salient feature: Fine grained, yield advantage over Ranjit is 11% ir of Prachur and 8% in case of Shatabdi
release	:	AAU, 2023
nts & check	:	T_1 : Variety Prachur with RDF (@ N: P_2O_5: K_2O:: 60:20:40 kg/ha) T_2 : Variety Shatabdi with RDF (@ N: P_2O_5: K_2O:: 60:20:40 kg/ha) T_3 : Ranjit (check) as per farmers' practice
ea	:	0.39 ha
rial	:	03 (three)
ers of ent	:	Dates of sowing, transplanting and harvesting, plant height, No of panicle/hill, no of effective panicle/m^2, test weight, yield and econo farmers' feedback
e Estimate	:	Rs. 10000.00

On Farm Trial (Discipline: Agronomy)

1st year

tic area	:	Varietal Performance
f OFT	:	**Performance of new Buckwheat variety VL Ugal-7 in Chiran district of Assam**
m diagnosed	:	Low yield of traditional variety
logy details	:	Variety: VL Ugal-7 Crop duration: 75-80 days Yield: 10-1 Salient feature: Short duration, bold seeded, high protein content (13.25%)
f release	:	VPKAS, 2024
ents & check	:	**T_1 :** Variety VL Ugal-7 with RDF (@ N: P_2O_5: K_2O:: 20:10:10 kg **T_2 :** Gossaigaon local as per farmers' practice
rea	:	0.39 ha
trial	:	03 (three)
eters of ment	:	Dates of sowing, plant height, no of primary branch/plant, test we yield and economics, farmers' feedback
ve budget e	:	Rs. 7500.00

On Farm Trial (Discipline: Horticulture)

3rd year

ic area	:	Varietal Performance
OFT	:	**Comparative assessment of early maturing watermelon varie** **Arka Shyama and Sugar Baby in farmers' field**
n diagnosed	:	Yield loss due to coincidence of rain with harvesting period
logy details	:	Assessed varieties: Arka Shyama & Sugar Baby Check variety: NS-34/Farmers preferred variety Area: 0.13 ha, Total no of farmers:3 Sowing time: Dec-Jan, Seed rate: 0.5 kg/ha, Fertilizer rate: 60:40 N:P:K/ha
release	:	IIHR, Bangalore, 2020
ents & check	:	**T_1:** Arka Shyama **T_2:** Sugar Baby **T_3:** NS-34(check)
rials	:	3
farmers	:	3
ters of ment	:	Days to 1st flowering, days to 1st harvesting, No of fruits/pt.average fruit weight, Yield, Disease and pest incidence, Production Econ
ve estimate	:	Rs 12000.00



On Farm Trial (Discipline: Horticulture)

2nd year

ic area		Varietal Performance
OFT	:	**Performance assessment of early maturing ridge gourd varieti Anmol F1and Arka Vikram in Chirang district**
n diagnosed		Local varieties do not have market oriented high yield
logy details	:	Assessed varieties: Arka Prasan and Arka Vikram Check variety: Local variety Area: 0.13 ha, Total no of farmers: 3 Sowing time: Jan-May, Seed rate: 1.5 kg/ha, Spacing: 1.5-2.5m x 1.2 m Fertilizer rate: 20:30:20 kg N:P:K/ha
release	:	IIHR, Bangalore, 2016
ents & check	:	T_1: Anmol F1, T_2: Arka Vikram T_3: Local variety (check)
rials	:	3
ters of ent	:	Days to 1st flowering, 1st harvesting & 1st fruit initiation, average f yield/plant, Yield, Disease and pest incidence, Production Econon
ve Estimate	:	Rs. 9000.00



On Farm Trial (Discipline: Plant Protection)

1st year

ic area	:	IPM
OFT	:	**Assessment of nano based pheromone traps for manage of Brinjal fruit and shoot borer**
n diagnosed	:	**Fruit and shoot borer is a major problem with rampant application of pesticide**
ogy details	:	Planting time: Sep-Feb Area:0.39 ha Brinjal Var Harsita
release	:	ICAR-NBAIR, Bengaluru, 2021
nts & check	:	T_1: Nano Based Pheromone traps T_2:Normal Pheromone traps T_3: Control (Spinosad 45 SC) @ 0.4 ml/liter
rials	:	3
armers	:	3
ters of assessment	:	Pest infestation(%), Yield attributes, B:C ratio , Farmers fe
e Estimate	:	Rs.8500.00



On Farm Trial (Discipline: Plant Protection)

1st year

atic area	:	**Integrated Disease Management**
f OFT	:	**Assessment of mutated variety of Rice for leaf folder**
em diagnosed	:	**Leaf folder insect is a major problem in rice growing a of Chirang district**
ology details	:	Var: AAU-200, Area: 0.39 ha Salient feature: Insect and Disease resistance
e of technology	:	**AAU, Jorhat (in pipeline)**
nents & check	:	T_1: AAU-200 (mutated breed) T_2: Ranjit Sub -1 (Parent) T_3: Jaya (Check)
trials	:	3
farmers	:	3
eters of assessment	:	Disease incidence(%), Yield attributes, B:C ratio, Farmers feedback
ximate budget ements		Rs. 10000.00





On Farm Trial (Discipline: Plant Protection)

2nd year

tic area	:	IPM
f OFT	:	**Management of Fall Army Worm (*Spodoptera frugiperda*) a Stem borer (*Chilopartellus*) in Maize**
m diagnosed	:	Severe crop loss due to infestation of fall army worm(FAW) an borer
logy details	:	Planting time: Nov-Feb, Area: 0.39 ha Maize Var: DK
f release	:	AAU, 2022
ents & check	:	**T_1:** IPM module comprising of a) Weeding 2 times at 15 days interval starting after 15 days of germination b) Application of Emamectin benzoate 3% WG + Thiamethoxa 12%WG @ 0.1 % followed by application of Chlorantranilipro % SC @0.025 % at 7 days interval **T_2:** Control (farmers' practice)
trials	:	3
farmers	:	3
eters of assessment	:	Pest infestation(%), Yield attributes, B:C ratio, Farmers feedba
ve estimate		Rs. 13000.00

On Farm Trial (Discipline: Soil Science)

2nd year

natic area	:	Nutrient Management.
of OFT	:	**Application of sulphur and boron in Toria**
lem diagnosed	:	Low yield of toria due to deficiency in secondary and micronutrients in soil
nology details	:	Application of Boron as basal @1.5 kg/ha and Sulpher @ kg/ha in addition to recommended dose of NPK. **Var:** TS-38
of release	:	AAU,2021
tments & check	:	**T_1:** Application of Boron @1.5 kg/ha and Sulphur @ 20 kg/ha as basal in addition to recommended dose of NPK. **T_2:** Recommended doses of NPK **T_3:** Farmers practice
of trials	:	3
of farmers	:	3
meters of assessment	:	1. Crop growth parameters 2.Yield 3.Soil test parameters Economic Analysis
ative estimate	:	Rs 10,800.00

On Farm Trial (Discipline: Soil Science)

2nd year

tic area	:	Nutrient Management.
OFT	:	**Zinc Nutrition in Lentil**
n diagnosed	:	Low yield in lentil due to deficiency of Zinc in soil
logy details	:	Inoculation of lentil seeds with ZSB @ 50 g/kg and basal application of 15 kg $ZnSO_4$/ha along with recommended d NPK, Var.: PL-9
release	:	AAU,2021
ents & check	:	**T_1:** Inoculation of lentil seeds with ZSB @ 50 g/kg and b application of 15 kg $ZnSO_4$/ha along with recommended d NPK **T_2:** Recommended doses of NPK **T_3:** Farmers practice
rials	:	3
farmers	:	3
ters of assessment	:	1. Crop growth parameters ; 2.Yield; 3.Soil test parameter Economic Analysis
ve estimate	:	Rs 12,000.00

On Farm Trial (Discipline: Animal Science)

1st year

ic area	:	Breed Performance
OFT	:	**Varietal Performance of dual purpose chicken Vanashree and Janapriya**
n diagnosed	:	Low productivity and poor reproductive performance of indigenou chicken
ogy details	:	**Vanashree and Janapriya chicks**
release	:	ICAR- Directorate of Poultry Research, Hyderabad (2020)
ent & check	:	T_1 :Vanashree T_2 :Janapriya T_3 (Check) : Kamrupa
rials	:	3
armers	:	3
ters of ent		Growth parameter, egg production, FCR, mortality percentage & B
e estimate	:	Rs. 50,000.00 (Rupees Fifty thousands)only



Vanashree

Janapriya



On Farm Trial (Discipline: Animal Science)

1st year

c area	:	Nutritional management/Alternative to synthetic growth promoter to use in Pigs
OFT	:	**Ameliorative effect of phytogenic feed supplement on growth performance in P**
diagnosed	:	Impairment of productive performances of pigs & high cost of synthetic growth pr
gy details	:	Basal diet + Feed supplement (Composition: Dried leaves of Moringa oleifera (43. Soyabean meal (43.53%) + Rice mill waste (broken rice- 11.44%) + Mineral mixtu (1.5%) **Dose:** i. 2-4 months age @ 25g/pig/3days/week ii. 4-5 month age @ 50g/pig/3days/week iii. 5-6 month age @ 75g/pig/3days/week iv. 6-8(puberty)month age @ 100g/pig/3days/week
elease	:	2021, DBT funded research project of LCVSc. AAU, Joyhing
t & check	:	T_1:With supplementation (Basal diet + feed supplement), T_2 :Without feed supplem T_3 :Feeding with locally available feeds (Farmer's practice)
als	:	3
rmers	:	3
rs of nt	:	Monthly Body weight till attainment of puberty (First heat), Age at puberty, FCR, B and Farmers feedback
e estimate	:	Rs. 22,000.00

Summary of Front Line Demonstration

cipline	No of Technology	No of farmer
onomy	2	10
ticulture	4	13
nt Protection	3	20
Science	2	15
mal Science	5	31
p Physiology	1	5
al	**17**	**94**

Front Line Demonstration (Discipline: Agronomy)		
FLD	**Demonstration of high yielding rice variety CR Dhan 310 & CR Dhan 311**	**Certified seed produc Toria variety TS -38 i participatory mode**
ogy	Variety: CR Dhan 310 & CR Dhan 311 with scientific production technology of RDF (@ N: P_2O_5: K_2O:: 60:20:40 kg/ha) Salient feature of the variety: Duration 120-125 days, long bold grain, biofortified high protein (10.1%)	Variety TS-38 with RD N: P_2O_5: K_2O:: 40:35:1
Demo	05(five)	5 (five)
armers	05(five)	5 (five)
	Area: 2.0 ha (CR Dhan 310: 1.0 ha CR Dhan 311: 1.0 ha)	Area: 2.0 ha
ations corded	Yield attributing characters, yield and economics, farmers' feedback	
estimate	Rs. 9000.00	Rs. 15000.00

Front Line Demonstration (Discipline: Horticulture)

FLD	:	**Demonstration on production technology of disease resistant tomato variety Arka Abhed in Chirang district**	**Popularization of biofortified cauliflower *var. C*arotena in C district**
ogy	:	Crop: Tomato Variety: Multiple disease resistant variety Arka Abhed Source of technology: IIHR, Bangalore, 2019 Sowing time: Sept- Oct, Seed rate: 250g/ha Spacing: 60 cm x 60 cm, Fertilizer rate: 75:60:60 kg N:P:K/ha	Crop: Cauliflower Variety: Biofortified Carotena Source of technology: Package Horticultural crops, AAU,2021 Sowing time: Oct Spacing: 60 cm x 60 cm, Fert rate: 80:60:60 kg N:P:K/ha
Demo	:	4	3
armers	:	4	3
a)		0.26 ha	0.13 ha
tions to ded	:	Days to 1st flowering, days to 1st harvesting, No of fruits/plant, average fruit weight, Yield, Disease and pest incidence, Production Economics	Days to curd formation, days to harvesting, average weight per Yield, Disease and pest incide Production Economics
e	:	Rs. 7000.00	Rs. 8500. 00

Front Line Demonstration (Discipline: Horticulture)

FLD	:	**Demonstration on integration of Blackpepper in existing Arecanut plantations**	**Popularization of Arecanut based multiple cropping in farmers field**
ogy	:	Crop: Blackpepper Variety: Panniyur-1 Source of technology: Package of Horticultural crops, AAU,2021 Planting time: April- Sept Spacing: 2.75 m x 2.75 m	Base Crop: Arecanut, Variety: Chiran Intercrops: Pineapple and Turmeric Source of technology: Package of Horticultural crops, AAU,2021 Sowing time: April- Oct, No of plants/ha: 1110 Spacing: 2.75m x 2.75m (Base crop)
emo	:	4	2
armers	:	4	2
a)		0.26 ha	0.26 ha
tions to ded	:	Days to 1st flowering, days to 1st harvesting, Yield, Disease and pest incidence, Production Economics	Growth parameters, Yield, Disease a incidence, Production Economics
e	:	Rs. 20,000.00	Rs. 38,000.00

Front Line Demonstration (Discipline: Plant protection)

f FLD	:	**Rearing performance of Eri silkworm on tapioca leaves for additional income of tribal women**	**Scientific beekeeping for increasing agricultural productivity**
logy details	:	80 kg of leaves to feed 10 dfls (Disease Free Layings) of Eri silkworms Crop: Tapioca	Rearing of Indian honey bee (ISI A type) @ 5 Nos./ha cr or 1 no.bee hive/bigha land Species: *Apis cerena*
demo	:	5	10
farmers	:	5	10
unit		5 units	10 unit
vations to be ed	:	Cocoon production (kg), Pupae production(kg), Eri egg production for next rearing(dfls), Tapioca yield(kg/ha), Economics, B:C	Production of honey (kg), E on toria yield(q/ha), Econon B:C
ve estimate	:	Rs. 20000.00	Rs.43000.00

Front Line Demonstration (Discipline: Plant protection)

f FLD	:	**Scientific cultivation of Oyster mushroom for self Employment of rural youth**
logy	:	Season: Sep-March Var: *Pleauratus ostreatus*
demo	:	5
farmers	:	5
Unit.		5 unit
ations ecorded	:	Yield(kg), Economics, B:C
ve te	:	Rs.21000.00

Front Line Demonstration Discipline: Crop Physiology

Title of FLD	:	**Integrated crop management of Buckwheat (Var: Gossaigaon Local)**
Technology details	:	ICM, Var: Gosaigaon **N:P:K=20:10:10 (kg**
No. of Demo	:	**6**
No. of farmers	:	**6**
Area (Ha)	:	2.0 ha
Observations to be recorded	:	Plant Height, days to flowering, no. of bran plant, yield attributes
Tentative estimate	:	Rs. 6500.00

Front Line Demonstration (Discipline: Soil Science)			
f FLD	:	**Application of potash solubilizing bacteria in reduction of potassic fertilizers in Sali rice.**	**Production of enriched vermicompost in low cost Vermicompost unit**
logy details	:	NPK @ 60:20:20 (kg/ha) + Microbial consortia of KSB @ 3.5 kg/ha, **Var.- Ranjit Sub-1**	Enrichment with Azotobacte PSB @1 kg each + Rock phosphate @ 10 kg/ qt of vermicompost
demo	:	5	10
farmers	:	5	10
Ha)/ unit	:	2.0 ha	10 units
vations to be ed	:	1. Agronomic parameters; 2. Yield; 3. Soil fertility status 4. Economic analysis.	1.Time taken for vermicomp production; 2. Yield of Earthworms; 3. Yield of vermicompost & 4. B:C ratio
ve estimate	:	Rs 17,000.00	Rs 30,000.00

Front Line Demonstration (Discipline: Animal Science)			
FLD	:	**White Pekin duck rearing as income generating activity for rural women.**	**Rearing of Assam Hill goat for livelihood security.**
ogy	:	Source of technology was CPDO&TI, Hesaraghatta Bengaluru (2014). The current FLD will be carried out to evaluate the growth performance of meat type Pekin ducks reared in partial confinement system for 56 days (8 weeks) under controlled feeding with broiler ration.	It is a registered breed from As NBAGR, Karnal, Haryana in t 2018. The FLD will be carried popularize the scientific rea Assam Hill Goat among tribal for livelihood security and also t farmers the importance of conservation of this breed.
emo	:	10	3
armers	:	10	3
irds	:	200 nos ducklings (20 nos of ducklings per demo)	12 nos :4 kids/ demo (3 female + male)
tions orded	:	Weekly growth rate and feed requirements upto market age of 8 weeks, Feed conversion ratio, Survivability & dressing percentage.	Growth rate, Incidence of twining Mortality rate of kids, incidence diseases and economics.
e	:	Rs. 42,000.00	Rs. 45,000.00

Front Line Demonstration (Discipline: Animal Science)

FLD	:	**Backyard poultry rearing of Srinidhi chicken for nutritional security and income generation**	**Enhancing farmers income through scientific Yorkshire pig farming**
ogy	:	Srinidhi chicken a dual purpose, improved poultry variety developed by ICAR-Directorate of Poultry research, Hyderabad under rural poultry programme. It is suitable for backyard rearing, especially in low-input systems with high adaptability to rural conditions.	Yorkshire pig is a popular exotic breed for its fast growth rate, high feed con efficiency, and excellent reproductive Scientific Yorkshire pig farming invo application of scientific mana practices to maximize productivity, health, and profitability.
lemo	:	10	3
armers	:	10	3
irds	:	200 nos (20 nos of bird per demo)	9 piglets : 3 piglets/demo (1 male + 2 f
tions to rded	:	Growth parameters, Egg production, Feed conversion ratio, mortality percentage and economics	Monthly body weight measurement, ag puberty, age at 1st farrowing, Litter size birth and weaning, farmers feedback.
e	:	Rs. 30,000.00	Rs. 70,000.00

Front Line Demonstration
(Discipline: Animal Science)

of FLD	:	**Backyard poultry rearing of Kamrupa chicken for nutritional security and income generation**
ology details	:	Kamrupa chicken is a dual-purpose improved poultry developed by AAU, specially for backyard and free farming in rural and tribal areas of Northeast.
f Demo	:	10
f farmers	:	10
f birds	:	200 nos (20 nos of bird per demo)
vations to be ed	:	Growth parameters, Egg production, Feed conversion rati mortality percentage and economics
ximate budget tes	:	Rs. 30,000.00

Training programmes

ipline	Short duration trainings				Vocational training		
	No. of trainings	Target group (nos. proposed)			No. of trainings	Target group (nos. prop	
		Farmers/ farm women	**RY**	**EF**		**Farmers/ farm women**	**RY**
my	11	6	4	1	1	-	1
otection	10	5	4	1	2	-	2
lture	11	7	3	1	1	-	1
Science	11	5	4	2	1	-	2
ence	11	6	4	1	1	-	1
ysiology	4	4	-	-	-	-	-
	4	2	2	-	-	-	-
otal	**62**	**35**	**21**	**6**	**6**	**-**	**7**

er Extension Activities:

Extension Activity	No. Proposed	Beneficiaries (No.)	
		Farmers	Rural Youth
ys	6	200	50
tic visit	45	150	100
visit to farmer`s field	250	300	100
tion of important days	9	500	400
demonstration	10	100	60
Mela/ Exhibition	2	450	350
e Visit	2	30	40
cience Club Conveners meet	1	5	20
nveners meet	1	5	20
s Seminar	1	25	25
mees meet	1	5	20
alk	3	-	-
health camp	2	60	40
ess Prog. on Climate Resilient Agriculture	2	60	40

Extension Activities:

Extension Activity	No. Proposed	Beneficiaries (No.)		T
		Farmers	Rural Youth	
ory /helpline service/ onic talk	850	500	350	
e delivered as resource person	15	500	250	
paper coverage	15	-	-	
ness on Swachhta	15	400	200	
rs Scientist Interaction	3	200	100	
xercise	2	25	25	
romotion	1	50	50	
bankers meet	1	15	10	
Talk	3	-	-	
ogramme	1	-	-	

ublications Proposed

No.	Type of publication	Number
1	Research paper	4
2	Abstract	5
3	Book	-
4	Chapter of Book	2
5	Training Manual	5
6	Bulletin	10
7	Newspaper article	15
8	Extension Training Video	2
9	Success story video	2

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ber of farmers registered as on 31st March, 2025	Target for 2025-26
	3000

enue generation (Expected):

Activity	Quantity to be produced	Re
eed- Toria	6.0 q	6
eed- Sesamum	1.0 q	1
eed- Niger	1.0 q	
eed- Buckwheat	1.0 q	
anting material (Assam lemon, Black pepper, Dragon fruit, Arecanut)	9000 nos	30
vestock production- Piglet	40 nos	20
vestock production- Goat kids	20 nos	10
vestock production- Milk	200 lts	1
vestock production- Eggs	2000 nos	1
vestock production- Poultry meat	100 kg	3
ermicompost	150.0 q	22
ny other (Hall rent, summer vegetables, fresh mushroom & spawn)	-	7
Total (Rs)		**104**

nand of BE for 2025-26

	HRD (Rs)	Research & Technology Demonstration expenditure (Rs)	General Expenditure including Administrative and miscellaneous (Rs)	Non recurring (Rs)	Committed liabilities of last FY (Rs)		Total
					Recurring	TA	
0	50000	1117800	172500	7000000 (Boundary wall, threshing floor, tractor with trailer, power tiller, irrigation facility etc)	40131	53536	1,19,7


Thank you