

Annual Action Plan for the year 2024-25



**Krishi Vigyan Kendra, Baksa
Assam Agricultural University**

PENETRATION OF KVK ACTIVITIES

Particulars	Number
Subdivisions in the district	3
Blocks in the district	8
Villages in the district	690

Particulars	Number
New villages to be covered in the 2024-25	30

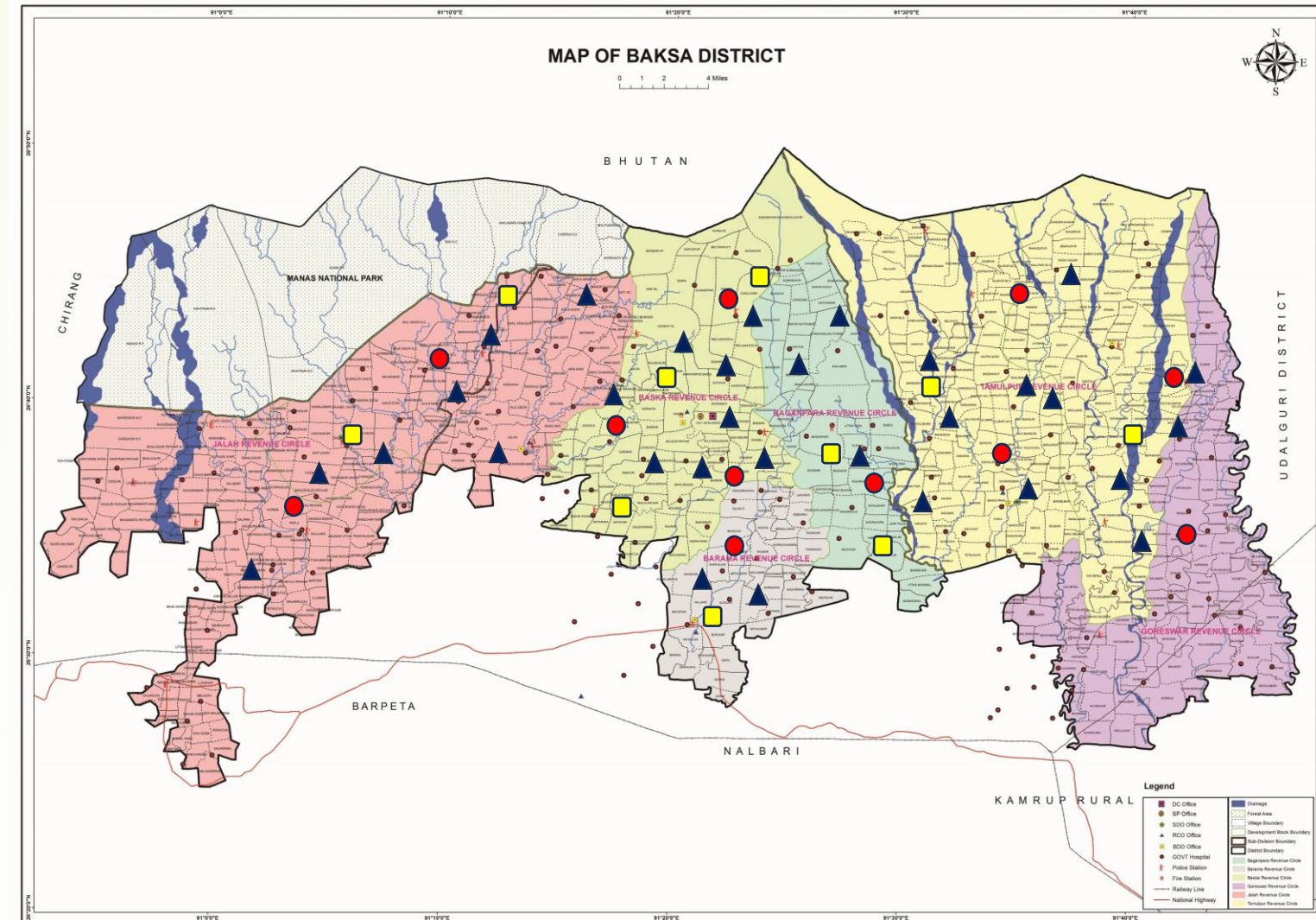
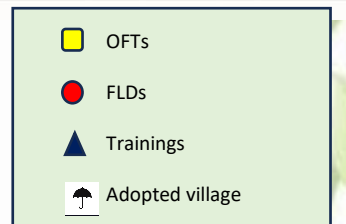


Fig: District Map, Baksa



Baksa District Profile

1. General Information:

Geographical Area	1,852.16 sq km
Geographical Position	90° 80' E - 91° 85' E Longitude, 26° 37' N - 26° 83' N Latitude
No. of Blocks	8 Nos.
Nos. of Sub-Division	3 Nos.
Gross Cropped Area	1,64,862 Ha
Net Cropped Area	99,890 Ha
Fallow Area	4,186 Ha
Cropping Intensity	165.04 %
Irrigated Area	37,477 Ha
Rainfed Area	1,27,385 Ha
Total Farm family	91,599
Population (2011 CENSUS)	9.50075 Lakhs
No. of Villages	690
SC Population	0.73083 Lakhs
ST Population	3.31007 Lakhs
Literacy rate	572837 (overall district literacy rate : 60.3%)
Average Annual Rainfall	2208.7mm (Normal)
Agro climatic region and Zone	Eastern Himalayan Region
Address of KVK, Baksa	Krishi Vigyan Kendra, Coconut Sub-Research Station, Kharua, Baksa (temporary address)

2. Land use pattern of Baksa district :

Sl No	Land use pattern of the district	Area('000ha)
1	Cultivated area	115.735
2	Cultivable area	164.862
3	Forest area	39.876
4	Land under non Agricultural use	12.336
5	Permanent Pastures	0.424
6	Cultivable wasteland	5.932
7	Gross irrigated area	22.043
8	Net Irrigated area	18.028
9	Land under Misc. tree crops and groves	0.957
10	Barre and uncultivable land	22.168
11	Current Fallows	5.282
12	Other Fallows	0.370

3. Major Soil type:

Sl No	Major Soils (common names like red sandy loam deep soils (etc.,))	Area ('000 ha)	Percent (%) of total
1	Sandy Loam	43.149	28.69
2	Alluvial Soil	36.567	26.17
3	Clay Loam	34.051	24.36
4	Sandy Soil	21.602	15.45

4. Major farming System / enterprises:

Sl no	Farming System / enterprises
1	Agriculture + A.H.
2	Agriculture + Fishery + A.H.
3	Agriculture + Horticulture + Sericulture
4	Agriculture + Horticulture + Fishery + A.H.
5	Agriculture + Horticulture + A.H.

Staff Position

Sl. No.	Name	Designation	Discipline	Date of joining
1	Dr. Utpal Jyoti Sarma	Head	Soil Science	7 th July,2015
2	Mr. Sunil Kr. Bhattacharya	SMS	Pl. Protection	28 th October, 2015
3	Dr. Debajit Deka	SMS	Animal Science	10 th August, 2018
4	Dr. Roji Chutia	SMS	Agronomy	14 th June, 2023
5	Mr. Kanku Deka (on Study leave)	SMS	Soil Science	10 th August, 2018
6	Mr. Rocktim Baruah	SMS	Horticulture	17 th February, 2022
7	Mr. Dipen Kr. Borah	Office Supdt. Cum Accountant	Office Suppt. Cum Acctt.	28th October, 2014
8	Mrs. Smritirekha Sarma	Prog. Asstt. (Comp.)	Computer	5 th August,2015
9	Ms. Jyotismita Borah	Prog. Asstt. (Agri.)	Agril. Economics	24 th August,2019
10	Mr. Niranjana Deka	Driver cum Mechanic		05.12.2016
11	Mr. Rupam Kalita	Driver cum Mechanic		24.08.2023
12	Mr. Biswanath Pathak	Supporting Staff		01.10.2023

On Farm Trial



On Farm Trial (Discipline: Agronomy)

Thematic area	:	Weed Management
Title of OFT	:	Assessment of crop establishment method and weed management practice in Sali rice
Problem diagnosed	:	Labour scarcity
Technology details	:	T ₁ = WDSR (Drum seeder) followed by Pretilachlor 0.75 kg/ha as pre-emergence + bispyribac sodium @ 0.025 kg/ha (15-20DAS) as post emergence. T ₂ =Transplanting followed by Pretilachlor 0.75 kg/ha as pre-emergence + bispyribac sodium @ 0.025 kg/ha (15-20DAS) T ₃ = Farmers practice
Year of release	:	AAU, Jorhat & IRRI, 2018
Treatments & check	:	Treatment= T1, T2 and Check= Farmers Practice
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	a) Plant height (cm) b) Tiller nos. c) Panicle length d) Grain/panicle e) Duration f) Yield g) Economics

On Farm Trial

(Discipline: Agronomy)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Evaluation of Finger millet variety Gossaigaon Marua Dhan-1, VL Mandua 352, Gossaigaon local
Problem diagnosed	:	Low yield of existing millet varieties in Baksa district
Technology details	:	T1= Gossaigaon Marua Dhan-1 T2= VL Mandua352 (High Medicinal Property) T3= Gossaigaon local
Year of release	:	ICAR VPKAS Almora (2016)
Treatments & check	:	Treatments= T1, T2, T3 = Gossaigaon local
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	a) Plant height b) Branches/plant c) Yield and duration d) Economics e) Nutrient content

On Farm Trial (Discipline: Agronomy)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Assessment of medium duration Rice varieties in Baksa district
Problem diagnosed	:	Difficulty arises when attempting to double crop with a long-duration rice variety
Technology details	:	T ₁ = Numoli T ₂ =Dholi T ₃ = Shraboni T ₄ = Ranjit (check)
Year of release	:	ARRI, Titabar, AAU
Treatments & check	:	Treatment= T1, T2 , T3 and T4
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	a) Plant height (cm) b) Tiller nos. c) Panicle length d) Grain/panicle e) Duration f) Yield g) Economics

On Farm Trial (Discipline: Plant Protection)

Thematic area	:	Integrated Disease Management
Title of OFT	:	Management practice of White fly (leaf curl virus vector) in Chilli.
Problem diagnosed	:	Yield loss by white fly through sucking and viral disease transmission.
Technology details	:	T1 : i) Spraying of Imidacloprid 200 SL @ 0.3 ml/l one week after seed germination ii) Dipping of seedlings in Imidacloprid 200 SL @ 0.3 ml/l before transplanting iii) Spraying of Imidacloprid 200SL @ 0.4 ml/l 15 days after transplanting iv) Roughing infected plants T2: Farmer Practice: Application of contact insecticide
Year of release	:	ICAR-IIHR, Bengaluru, 2017
Treatments & check	:	Treatments= T1, T2 & Check= Application of contact insecticide
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1. Date of sowing 2. Date of transplanting 3. Date of appearance of first symptom of leaf curl observed 4. No. of plant affected at weekly interval after first infection 5. Per cent incidence of leaf curl 6. Crop yield (q/ha) 7. B:C ratio 8. Farmers feed back

On Farm Trial (Discipline: Plant Protection)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Assessment of Multiple disease resistant Tomato hybrid, Arka Abhed, Arka Rakshak with Trishul
Problem diagnosed	:	Multiple disease like leaf curl, late blight and bacterial wilt.
Technology details	:	Assessment of Multiple disease resistant Tomato hybrid, Arka Abhed, Arka Rakshak with Trishul
Year of release	:	IIHR, 2018
Treatments & check	:	Treatments= Arka abhed, Arka rakshak and Check= Trishul
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1.Disease intensity (%) 2.Fruit/plant 3.Fruit wt(KG) 4.Yield/ha 5.B.C ratio



On Farm Trial (Discipline: Horticulture)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Varietal evaluation of high yielding and leaf curl tolerant chilli var. Arka Tejasvi, Arka Saanvi, Arka Gagan in Baksa district.
Problem diagnosed	:	High Incidence of chilli leaf curl disease which hinders production. The varieties (Arka Tejasvi, Arka Sanvi, Arka Gagan) released by IIHR are tolerant to chilli leaf curl disease
Technology details	:	T1- Arka Tejasvi T2- Arka Sanvi T3- Arka Gagan T4- KSP1469 (check)
Year of release	:	IIHR, 2021
Treatments & check	:	Treatments=T1, T2, T3 & Check= KSP1469
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1. Plant Height (cm) 2. Days to 50% flowering 3. Days to 1 st harvest 4. No of fruits /plant 5. Average fruit weight(g) 6. Average fruit length(cm) 7. Yield(q/ha) 8. Disease incidence(%)

On Farm Trial (Discipline: Horticulture)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Evaluation of watermelon var. Arka Shyama in Baksa district.
Problem diagnosed	:	Low germination percentage of the available watermelon varieties and high price of the seeds.
Technology details	:	T1: Arka Shyama T2(check) : Augusta T3: Farmer's practice Arka Shyama is an early variety(65-70 days) released by IIHR. It is a icebox segment variety with good TSS content of 12%.
Year of release	:	IIHR, 2020-21
Treatments & check	:	Treatments=T1, T2= Check, T3 = Farmers Practice
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1. Days to germination 2. Average Vine length(cm) 3. Days to 50% flowering 4. Days to harvest from flowering 5. Average Fruit weight(g) 6. Average Fruit width(cm) 7. Average Yield(q/ha) 8. B: C ratio

On Farm Trial (Discipline: Horticulture)

Thematic area	:	Varietal Evaluation
Title of OFT	:	Evaluation of French bean var. Arka Arjun, Arka Komal and Arka Sharath in Baksa district.
Problem diagnosed	:	Lack of varieties suitable for both Kharif and Rabi season. Incidence of Mungbean yellow mosaic virus (MYMV).
Technology details	:	T1: Arka Arjun, T2: Arka Komal , T3: Arka Sharath, T4(check): Noori The IIHR varieties selected for this trial are bush type, suitable for both the seasons (Rabi and Kharif) and high yield potential. Arka Arjun is resistant to MYMV.
Year of release	:	IIHR
Treatments & check	:	Treatments=T1, T2, T3 & Check= Noori
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1. Days to germination 2. Days to 50% flowering 3. Days to first harvest from sowing 4. Crop duration(days) 5. Plant height(cm) 6. Number of leaves per plant 7. Number of pods per plant 8. Average pod weight(g) 9. Average pod length(cm) 10.Average Yield(q/ha) 11.B: C ratio

On Farm Trial (Discipline:Animal Science)

Thematic area	:	Meat and Egg Production
Title of OFT	:	Performance evaluation of Kuttanad Duck under agro-climatic condition of Baksa district
Problem diagnosed	:	Low productivity in existing breed including local pati duck
Technology details	:	Technology : Duck breed : Kuttanad T ₁ = Kuttanad duck T ₂ = Pati duck
Year of release	:	KVASU, Kerala ,2017
Treatments & check	:	T ₁ = Kuttanad duck T ₂ = Pati duck
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	a) Body weight at monthly interval b) Daily weight gain at monthly interval c) Age at first egg in days d) Egg weight in gm e) Diseases incidence f) Annual egg production g) Duckling mortality h) FCR up to age at first egg i) Economics

On Farm Trial (Discipline:Animal Science)

Thematic area	:	Milk production
Title of OFT	:	Treatment of paddy straw with locally prepared “Kala khar” solution to improve its nutritive value
Problem diagnosed	:	Low nutrient content in paddy straw
Technology details	:	Technology : Value addition of paddy straw to enhance digestability and Calcium and phosphorus mineral T1- 2% Kalakhar in 50 litre water + 100 Kg paddy straw T2 : Farmers practices
Year of release	:	AAU, Khanapara and 2015
Treatments & check	:	T1- 2% Kalakhar in 50 litre water + 100 Kg paddy straw T2 : Farmers practices
No. of trials	:	3
No. of farmers	:	3
Parameters of assessment	:	1. Daily milk yield 2. Lactation length 3. Days to peak yield 4. Annual milk production 5. Economics

Front Line Demonstration



Front Line Demonstration

(Discipline: Agronomy)

Title of FLD	:	Popularization of Submergence tolerant rice variety Ranjit Sub-1 followed by Toria variety TS-38 cropping sequence
Technology details	:	Submergence tolerant rice variety Ranjit Sub-1 (Submergence tolerance: 12-14 days)
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		5 ha
Observations to be recorded	:	a) Plant height b) Tiller nos. c) Panicle length d) grain/panicle e) yield f) duration of submergence g) economics

Front Line Demonstration (Discipline: Agronomy)

Title of FLD	: Popularization of medium duration Rice (Numoli)- Toria(TS-38) cropping sequence
Technology details	: Popularization of medium duration Rice (Numoli)- Toria(TS-38) cropping sequence
No. of demonstrations proposed	: 10
No. of farmers	: 10
Area (Ha)/ No. of animals or birds etc.	5 ha
Observations to be recorded	: a)Date of sowing and harvesting Rice and Toria b) Yield (q/ha) and yield attributes Rice and Toria c) Economics



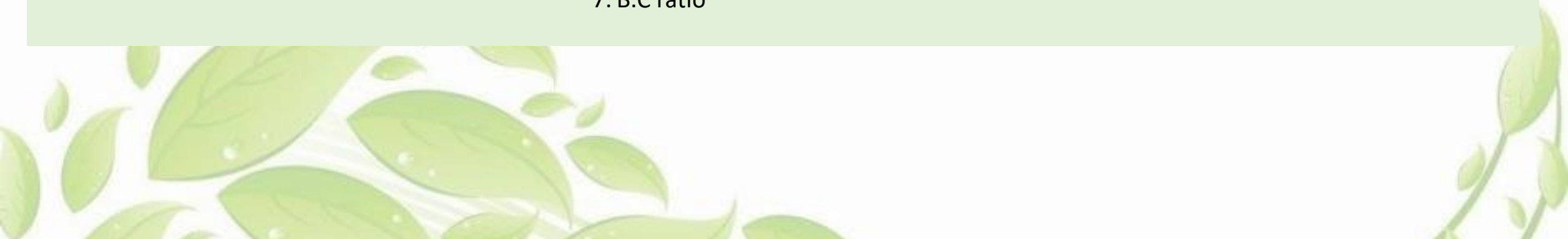
Front Line Demonstration (Discipline: Agronomy)

Title of FLD	:	Popularization of high quality protein Maize var. DKC 9081
Technology details	:	Popularization of high quality protein Maize var. DKC 9081(AAU-ZRS, Gossaigaon , 2018)
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		3.0
Observations to be recorded	:	a) Date of sowing & harvesting b) Grain yield (q/ha) and yield attributing characters c) Pest and diseases (if any) d) Economics



Front Line Demonstration (Discipline: Horticulture)

Title of FLD	:	Popularisation of coloured cauliflower var. Carotena in Baksa district.
Technology details	:	Carotena is Biofortified variety of Cauliflower developed by Syngenta which is a Beta carotene rich variety.
No. of demonstrations proposed	:	4
No. of farmers	:	4
Area (Ha)/ No. of animals or birds etc.		0.52
Observations to be recorded	:	1. Days to maturity 2. Plant spread (cm) 3. Weight of untrimmed curd(g) 4. Weight of trimmed curd(g) 5. Curd diameter (cm) 6. Yield/ha 7. B.C ratio



Front Line Demonstration (Discipline: Horticulture)

Title of FLD : Popularization of Arecanut based Multi-cropping system.

Technology details : Inter-Crops:
1. Black pepper var. Paniyyur 1
2. Turmeric var. Megha Turmeric 1
3. Pineapple var. Kew

No. of demonstrations proposed : 3

No. of farmers : 3

Area (Ha)/ No. of animals or birds etc. 0.39

Observations to be recorded :
1. Plant growth characters
2. Yield and Yield attributing characters
3. B:C ratio



Front Line Demonstration (Discipline: Horticulture)

Title of FLD	:	Popularizing Guava variety L-49 in Baksa District
Technology details	:	L-49 is a Prolific bearer variety with milky white sweet pulp and with a target yield 25 t/ha
No. of demonstrations proposed	:	3
No. of farmers	:	3
Area (Ha)/ No. of animals or birds etc.		0.39
Observations to be recorded	:	1. Plant growth characters 2. Yield and Yield attributing characters 3. B:C ratio



Front Line Demonstration (Discipline: Plant Protection)

Title of FLD	:	Rearing of Indian Honey bee with Rapeseed
Technology details	:	Rearing of Honey Bee with Rapeseed and Mustard Crop
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		10 box with colony
Observations to be recorded	:	1. Yield of Toria and honey 2. B:C Ratio



Front Line Demonstration (Discipline: Plant Protection)

Title of FLD	:	Cultivation of Oyster mushroom
Technology details	:	Mushroom is cultivated in PP bag with the use of steamed rice straw.
No. of demonstrations proposed	:	5
No. of farmers	:	5
Area (Ha)/ No. of animals or birds etc.		100 Kg spawn
Observations to be recorded	:	1. Yield /bed 2. B:C Ratio



Front Line Demonstration (Discipline: Soil Science)

Title of FLD	:	Popularization of Low cost Vermicompost production technology.
Technology details	:	By using earth worm <i>Eiseania foetida</i>
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		10 unit
Observations to be recorded	:	Production(t/unit)



Front Line Demonstration (Discipline: Soil Science)

Title of FLD	:	INM in Rabi Maize
Technology details	:	INM in Rabi Maize
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		2.0 ha
Observations to be recorded	:	a) Date of sowing & harvesting b) Grain yield (q/ha) and yield attributing characters c) Pest and diseases (if any) d) Economics

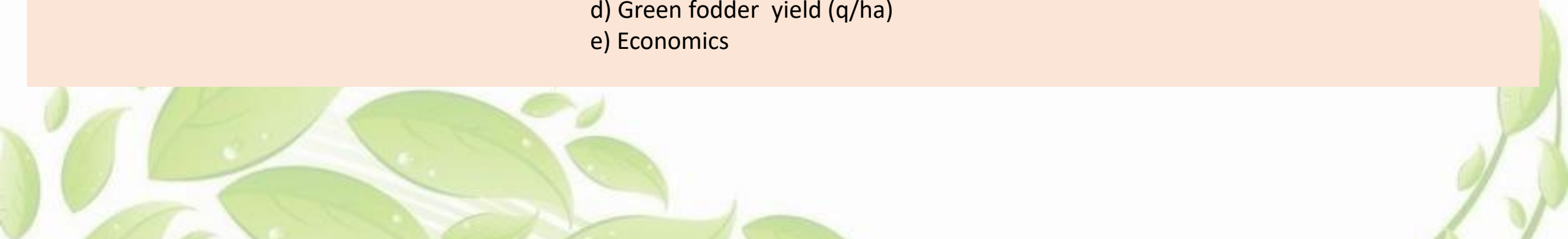


Front Line Demonstration (Discipline: Animal Science)

Title of FLD	:	Popularization of newly released Pig variety HD-K75
Technology details	:	Crossbred pig (Hampshire 75% X Local pig 25 %) System of rearing : Intensive system Feeding : Concentrate feeding
No. of demonstrations proposed	:	3
No. of farmers	:	3
Area (Ha)/ No. of animals or birds etc.		9
Observations to be recorded	:	a) Body weight at monthly interval b) Daily weight gain at monthly interval c) Age at sexual maturity d) Age at first farrowing e) Litter size and litter weight at birth f) Litter size and litter weight at weaning g) Farrowing interval h) Economics

Front Line Demonstration (Discipline: Animal Science)

Title of FLD	:	Cultivation of Hybrid Napier (Var. CO4)
Technology details	:	This is a hybrid variety made from Napier grass and Bajra cereal Rooted slip per hectare : 35000-40000 Distance between row: 50 cm Distance between rooted slip : 50 cm Cultivation practices : As per Package of practice
No. of demonstrations proposed	:	3
No. of farmers	:	3
Area (Ha)/ No. of animals or birds etc.		0.4 ha
Observations to be recorded	:	a)Date of sowing & harvesting b)Date of first cutting and subsequent cutting c) Plant height in cm d) Green fodder yield (q/ha) e) Economics



Front Line Demonstration (Discipline: Animal Science)

Title of FLD	:	Cultivation of Oat (Var. Kent)
Technology details	:	Seed rate : 100 Kg/ha Showing method : Line showing with 20-25 cm distance Cultivation practices : As per package of practice
No. of demonstrations proposed	:	10
No. of farmers	:	10
Area (Ha)/ No. of animals or birds etc.		1.33 ha
Observations to be recorded	:	a)Date of sowing & harvesting b)Date of first cutting c) Plant height in cm d) Green fodder yield (q/ha) d) Economics



Impact Study (Discipline: Agricultural Economics)

SI No.	Title	Sample size	Parameters to be studied
1.	Impact study on vocational/skill trainings with special emphasis on entrepreneurship development	60	1. Impact on knowledge gain attitude enterprise development, income & horizontal spread 2. Factor affecting the impact of training 3. Reason for establishment & non establishment
2.	PRA exercises in three villages		

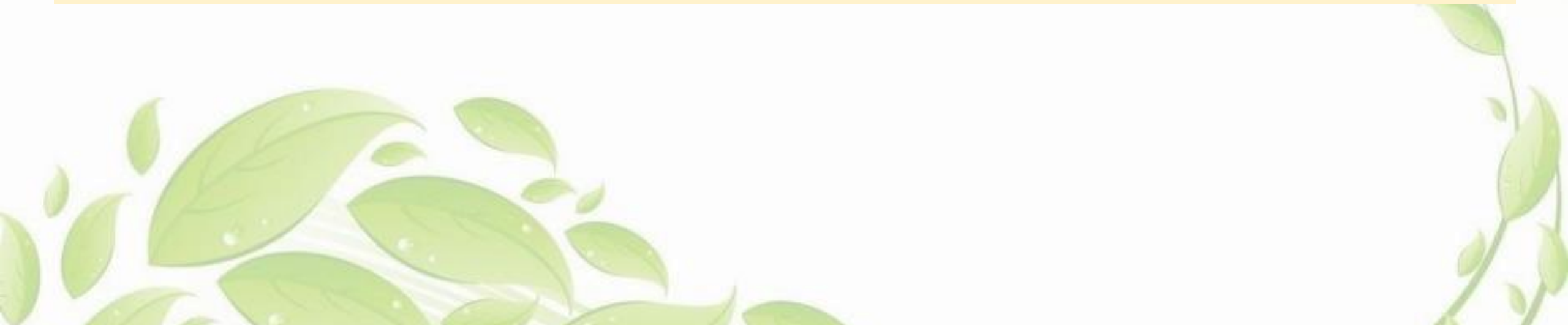
Seed production Programme (Discipline: Agronomy)

Title of Demonstration : Seed production programme of finger Millet variety Gossaigaon Marua Dhan

Area (Ha) : 2 ha

Title of Demonstration : Promotion of Double cropping in Baksa district, Rice variety Numoli - Toria variety TS-38

Area (Ha) : 40 ha



Training programmes

a) Short duration trainings:

Discipline	No. of trainings	Target group (nos. proposed)		
		Farmers/ farm women	RY	EF
Agronomy	18	8	4	4
Horticulture	12	8	2	2
Plant Protection	13	8	2	3
Animal Science	11	6	4	1
Fishery Science	3	3	0	0
Total	57	33	12	10

b) Vocational/ Skill training programmes:

Discipline	No. of trainings	Target group (nos. proposed)		
		Farmers/ farm women	RY	EF
Agronomy	1	0	1	0
Horticulture	1	0	1	0
Plant Protection	1	0	1	0
Animal Science	1	0	1	0
Total	4			

Other Extension Activities:

Sl. No.	Type of programme	No. of programmes proposed	No. of farmers
1	Diagnostic visit	33	150
2	Advisory services/ telephone talk	210	315
3	Celebration of Important days	10	180
4	Exhibition	5	605
5	Exposure visit	2	100
6	News letter	1	-
7	News paper coverage	20	-
8	Farmers' visit to KVKs	-	500
9	Field day	5	250
10	Film show	10	500
11	Radio Talk	5	-
12	TV talk	5	-
13	Kishan Mela	1	1000
14	Animal Health Camps	3	200
15	Mobile Agro-Advisory	50	15000
16	Method demonstration	5	120
17	Scientists' visit to farmers' field	-	-
18	Awareness Camp	5	300

Seed/Planting material generation:

Sl. No.	Activity	Quantity to be produced	Revenue (Rs)
1.	Seed & planting material-	Seed: 1. Rice(Numoli, Ranjit)= 5q 2. Toria(TS-38)= 8q Planting Material: 1. Arecanut seedling= 1000 Nos 2. Assam Lemon cuttings=700 Nos 3. Black Pepper Cutting= 1000 Nos. 4. Hybrid Napier Saplings= 15000 Nos.	20000.00 72000.00 35000.00 28000.00 25000.00 22500.00
2.	Livestock production	-	-
3.	Any other(Vermicompost)	10t	150000.00
Total			3,52,000.00

Publications proposed

Sl. No.	Type of publication	Number	
1	Research paper	3	
2	Abstract	3	
3	Book	1	
4	Chapter of Book	3	
5	Training Manual	1	
6	Bulletin	5	
7	Newspaper article	5	

Extension Videos to be developed

Sl. No.	Type of publication	Number	
1	Extension Training Video	3	
2	Success story video	3	
3	Any other	0	

❖ No. of PRA survey to be conducted during 2024-25: 3 Nos.

❖ Village adoption plan during 2024-25:

1. Under promotion of Millet, one village will be adopted.
2. Under promotion of Fodder one village will be adopted.



Thank You

