

6. Development Strategies for NE India

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6.1 Development Strategies for Arunachal Pradesh

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SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri – AH – Hort -	Field crop	Availability of seed, mechanization,
	Fishery		irrigation facility.
		Vegetable	Availability of suitable variety.
		Fishery	Lack of infrastructure, proper
			transportation facility of fish seed,
			lack of balance feed, fish seed
			hatchery is needed.
		AH	Lack of breeding unit, feed.
2	Hort – Agri - AH	Fruits	Proper marketing channel,
			availability of effective package of
			practice.
		Paddy	Mechanization, irrigation.
			Diversification of Jhuming to
			Terraced cultivation through
			community mobilization financial and
			technical support.
		AH	Lack of breeding unit, feed.
3	Agri - AH	Field crop	Availability of seed, mechanization,
			irrigation facility.
		AH	Diversification of Backyard Pig
			rearing to Pig Farming through
			motivation and input support.

1. Extension gaps for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agri – AH – Hort -	Field crop	To poplarise high yielding drought
	Fishery		resistant varieties of rice.
			Integrated nutrient management in
			major field crops.
		Vegetable	To popularise low volume high cost
			vegetables.
		Fishery	Formation of fish farmers club and
			organise training to the practising
			farmers.

2	Hort - Agri - AH	Fruits	Good quality planting materials for	
			major fruit crops.	
			Small scale processing industry.	
		Paddy	Machanization, motivation for tarace	
			cultivation, integrated nutrient	
			management.	
3	Agri - AH	Field crop	Upgradation existing local land races	
			of rice.	

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1	Agri – AH - Hort -	Field crop	OFT and FLD in rice varieties.
	Fishery		FLD on SRI.
		Vegetable	OFT on protected cultivation of
			vegetable.
			Rain water harvesting for live saving
			irrigation.
		Fishery	OFT & FLD on carried over fish seed
			production.
			FLD on composite fish farming.
			FLD on integrated farming system.
			OFT on feeding of carps using locally
			available feed ingradients.
2	Hort – Agri - AH	Fruits	OFT on IPM in citrus.
			Training on value addition.
			Integrated nutrient management.
		Paddy	FLD on TRC-rice.
3	Agri - AH	Field crop	OFT on new varieties of rice.

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2. Development Strategies for Lohit

Sl. No. Far	ming system	Crops under the FS	Ext	ension gaps identified
1 FS-	-1 (AES-I)	Agri - WRC/ upland	Ag	riculture :
(Ag	gri.+ Hort+	paddy, Potato, mustard,	1.	Lack of knowledge about
An	imal Husbandry)	maize, soybean, local		scientific agronomic
		pulses, tea		practices for different
FS	-2 (AES-I)	Horti. – Banana,		crops
(Ag	gri + Hort +	Pineapple, citrus	2.	Lack of knowledge and
An	imal Husbandry +	Vegetables, ginger, chili,		unavailability of quality
Fis	hery)	betel vine		high yielding seeds of
		Animal Husb. –Cattle, pig,		paddy, pulses and oilseed
		goat, elephant, duck and	3.	Lack of knowledge about
		poultry		IPM/ INM of different
		Fishery – Fish species		crops
		Rohu, Catla, Grass Carp,	4.	Lack of knowledge
		Silver Carp and Common		regarding production and
		Carp, Local species		use of organic manures
			5.	Lack of knowledge
				regarding soil and
				moisture conservation
				techniques.
			6.	Lack of knowledge about
				different cropping system
			7.	Lack of knowledge about
				different suitable pulses
				and oilseed for this area
			8.	Lack of knowledge about
				bio-fertilizer and bio-
				pesticides.
			Но	orticulture:
			1.	Lack of knowledge on
				scientific cultivation of
				fruits & Vegetables.
			2.	Lack of awareness of
				symptoms of pest &
				diseases & their control
				measures.

1. Extension gaps for each farming system and crop

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	3.	Lack of knowledge on
		fruits & Vegetables
		reservation & processing.
	4.	lack of awareness on
		utilization of
		underexploited crops.
	5.	Lack of knowledge &
		awareness on scientific Of
		ornamentals flowers
	6.	Lack of knowledge &
		awareness on cultivation
		of mushroom.
	An	imal Husbandry :
		Lack of knowledge about
		scientific rearing system
		of poultry and pig
	2.	Lack of knowledge on
		scientific disease
		management of cattle,
		pig & poultry
	3.	Lack of knowledge about
		quality feed
	4.	Use of local un-described
		breeds
	5.	Lack of awareness about
		improved breeds
	6.	Lack of knowledge about
		integration of different
		enterprises
	Fis	hery :
		Lack of knowledge about
		composite fish culture
	2.	Lack of knowledge about
		low cost integrated fish
		farming systems.
	3.	poLack of awareness
		about scientific fish
		husbandry practices.

2.	Medium altitude, Rainfed		Agriculture :
			1. Lack of knowledge about
	FS-3 (AES-II)	Agri - WRC/ upland	scientific agronomic
	(Agri + Hort + Animal	paddy, Potato, mustard,	practices for different
	Husbandry)	maize, soybean, local	crops
		pulses	2. Lack of knowledge and
	FS-4 (AES-II)	Horti. – Banana,	unavailability of quality
	(Agri + Hort + Animal	Pineapple, citrus	high yielding seeds of
	Husbandry +	Vegetables, ginger, chili,	paddy, pulses and oilseed
	Fishery)	betel vine	3. Lack of knowledge about
		Animal Husb. – Cattle, pig,	IPM/ INM of different
		goat, elephant, duck and	crops
		poultry	4. Lack of knowledge
		Fishery – Fish species	regarding production and
		Rohu, Catla, Grass Carp,	use of organic manures
		Silver Carp and Common	5. Lack of knowledge
			-
		Carp, Local species	regarding soil and
			moisture conservation
			techniques.
			6. Lack of knowledge about
			different cropping system
			7. Lack of knowledge about
			different suitable pulses
			and oilseed for this area
			8. Lack of knowledge about
			bio-fertilizer and bio-
			pesticides.
			Horticulture:
			1. Lack of knowledge on
			scientific cultivation of
			fruits & vegs.
			2. Lack of awareness of
			symptoms of pest &
			diseases & their control
			measures.
			3. Lack of knowledge on
			fruits and vegetable,
			Preservation &
			processing.
			4. Lack of awareness on
			T. Lack of awareness off

 High altitude, Rainfed Agri - Upland paddy, Rafse, Tilly, Agri - Upland Paddy, Rafse, Tilly, Ag				
 Lack of knowledge about scientific rearing system of poultry and pig Lack of knowledge on scientific disease management of cattle, pig & poultry Lack of knowledge about quality feed Use of local un-described breeds Lack of knowledge about improved breeds Lack of knowledge about integration of different enterprises Fishery: Lack of knowledge about integrated fish farming systems. Lack of awareness about scientific fish husbandry practices. High altitude, Rainfed Agri - Upland paddy, maize, millet, local pulses FS-5 (AES-III) 			 underexploited crops Lack of knowledge & awareness on scientifior ornamentals flowers Lack of knowledge & awareness on cultivation 	fic Of
3.High altitude, RainfedAgri - Upland paddy, maize, millet, local pulses1. Lack of knowledge about composite fish culture5.FS-5 (AES-III)Agri - Orange, Tapioca,1. Lack of knowledge about low cost integrated fish farming systems.1.Lack of awareness about scientific fish husbandry practices.3.High altitude, RainfedAgri - Upland paddy, maize, millet, local pulses1. Lack of knowledge about scientific agronomic practices for different			 Lack of knowledge at scientific rearing syst of poultry and pig Lack of knowledge or scientific disease management of cattle pig & poultry Lack of knowledge at quality feed Use of local un-describreeds Lack of awareness at improved breeds Lack of knowledge at integration of different 	em e, bout ibed bout
 2. Lack of knowledge about low cost integrated fish farming systems. 3. Lack of awareness about scientific fish husbandry practices. 3. High altitude, Rainfed Agri - Upland paddy, maize, millet, local pulses FS-5 (AES-III) Horti Orange, Tapioca, Practices for different 				oout
3. High altitude, Rainfed Agri - Upland paddy, maize, millet, local pulses Agriculture : FS-5 (AES-III) Horti Orange, Tapioca, practices for different			 Lack of knowledge at low cost integrated fit farming systems. Lack of awareness at 	oout sh oout
3.High altitude, RainfedAgri - Upland paddy, maize, millet, local pulses1. Lack of knowledge about scientific agronomicFS-5 (AES-III)Horti Orange, Tapioca,practices for different			· · ·	
FS-5 (AES-III) Horti. – Orange, Tapioca, practices for different	3.	High altitude, Rainfed	 1. Lack of knowledge at	oout
		FS-5 (AES-III)		:

Animal husb)	ginger, chili, pineapple,	2. Lack of knowledge and
FS-6	banana	unavailability of quality
(AES-III)	Animal Husb. – Mithun	high yielding seeds of
(Agri + Hort +	cattle, pig, goat, elephant,	paddy
Animal Husbandry+	duck and poultry	3. Lack of knowledge about
Fishery)	Fishery – Fish species	IPM/ INM of different
	Rohu, Catla, Grass Carp,	crops
	Silver Carp and Common	4. Lack of knowledge
	Carp, Local species	regarding production and
		use of organic manures
		5. Lack of knowledge
		regarding soil and
		moisture conservation
		techniques.
		6. Lack of knowledge about
		different cropping system
		7. Lack of knowledge about
		bio-fertilizer and bio-
		pesticides.
		Horticulture:
		1. Lack of knowledge on
		scientific cultivation of
		fruits & Vegetables
		2. Lack of awareness of
		symptoms of pest &
		diseases & their control
		measures.
		3. Lack of knowledge on
		fruits & vegetables,
		Preservation &
		processing.
		4. Lack of awareness on
		utilization of
		underexploited crops.
		5. Lack of knowledge &
		awareness on scientific Of
		ornamentals flowers
		6. Lack of knowledge &
		awareness on cultivation
		of mushroom.

	An	imal Husbandry :
	1.	Lack of knowledge about
		scientific rearing system
		of poultry and pig
	2.	Lack of knowledge on
		scientific disease
		management of cattle,
		pig & poultry
	3.	Lack of knowledge about
		quality feed
	4.	Use of local breeds
	5.	Lack of awareness about
		improved breeds
	6.	Lack of knowledge about
		integration of different
		enterprises
	Eia	shery:
		Lack of knowledge about
	1.	composite fish culture
	r	Lack of knowledge about
	∠.	low cost integrated fish
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	2	farming systems. Lack of awareness about
	з.	
		scientific fish husbandry
		practices.

SI. No.	Farming system	Crops under the FS	Extension priorities finalized
1	Low altitude, Rainfed :	Agri - WRC/ upland	Agriculture :
		paddy, Potato, mustard,	1. Lack of knowledge about
	FS-1 (AES-I)	maize, soybean, local	scientific agronomic
	(Agri + Hort +	pulses, tea	practices for different crops
	Animal Husbandry)	Horti. – Banana,	2. Lack of knowledge about
		Pineapple, citrus	IPM/ INM of different crops
	FS-2 (AES-I)	Vegetables, ginger, chili,	3. Lack of knowledge about
	(Agri + Hort +	betel vine	different cropping system
	Animal Husbandry+	Animal Husb. –Cattle,	4. Lack of knowledge
	Fishery)	pig, goat, elephant, duck	regarding production and
		and poultry	use of organic manures

Fishery – Fish species	5. Lack of knowledge
Rohu, Catla, Grass Carp,	regarding soil and moisture
Silver Carp and Common	conservation techniques.
Carp, Local species	 6. Lack of knowledge about
	different suitable pulses
	and oilseed for this area
	7. Lack of knowledge and
	unavailability of quality
	high yielding seeds of
	paddy, pulses and oilseed
	8. Lack of knowledge about
	bio-fertilizer and bio-
	pesticides.
	pesticides
	Horticulture:
	1. Scientific cultivation of
	fruits & vegetables
	2. Value addition of under
	exploited crops. 3.
	Scientific cultivation of
	ornamental flowers.
	4. Scientific cultivation of
	mushroom.
	Animal Husbandry :
	1. Scientific rearing of poultry
	2. Scientific rearing of pig
	3. Management of FMD of
	cattle
	4. Management of Ranikhet
	disease of poultry
	5. Management of Swine
	fever & parasitic disease of
	pig
	6. Feed management of pig &
	poultry
	7. Upgradation of local breed
	8. Pig-poultry- fish integrated
	farming system
	Fishery:

			1. Promotion of composite
			fish culture technology
			suitable for low altitude
			regions of Lohit district.
			2. Promotion of low cost
			integrated fish farming
			technology.
			3. Awareness regarding
			scientific fish husbandry
			practices.
2.	Medium altitude, Rainfed	Agri - WRC/ upland	Agriculture :
		paddy, Potato, mustard,	1. Lack of knowledge about
	FS-3 (AES-II)	maize, soybean, local	scientific agronomic
	(Agri + Hort +	pulses	practices for different crops
	Animal Husbandry)	Horti. – Banana,	2. Lack of knowledge about
		Pineapple, citrus	IPM/ INM of different crops
	FS-4 (AES-II)	Vegetables, ginger, chili,	3. Lack of knowledge about
	(Agri + Hort +	betel vine	different cropping system
	Animal Husbandry+	Animal Husb. – Cattle,	4. Lack of knowledge
	Fishery)	pig, goat, elephant, duck	regarding production and
		and poultry	use of organic manures
		Fishery – Fish species	5. Lack of knowledge
		Rohu, Catla, Grass Carp,	regarding soil and moisture
		Silver Carp and Common	conservation techniques.
		Carp, Local species	6. Lack of knowledge about
		··· · · · · · · · · · · · · · · · · ·	different suitable pulses
			and oilseed for this area
			7. Lack of knowledge and
			unavailability of quality
			high yielding seeds of
			paddy, pulses and oilseed
			8. Lack of knowledge about
			bio-fertilizer and bio-
			pesticides.
			pesticides.
			Horticulture:
			1. Scientific cultivation of
			fruits & vegetables
			2. Value addition of under
			exploited crops. 3.
			Scientific cultivation of

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			ornamental flowers.
			4. Scientific cultivation of
			mushroom.
			Animal Husbandry :
			1. Scientific rearing of poultry
			2. Scientific rearing of pig
			3. Management of FMD of
			cattle
			4. Management of Ranikhet
			disease of poultry
			5. Management of Swine
			fever & parasitic disease of
			pig
			6. Feed management of pig &
			poultry
			7. Upgradation of local breed
			8. Pig-poultry- fish integrated
			farming system
			Fishery:
			1. Promotion of composite
			fish culture technology
			suitable for mid altitude
			regions of Lohit district.
			2. Promotion of low cost
			integrated fish farming
			technology.
			3. Awareness regarding
			scientific fish husbandry
			practices.
3.	High altitude, Rainfed	Agri - Upland paddy,	Agriculture :
		maize, millet, local	1. Lack of knowledge about
	FS-5 (AES-III)	pulses	scientific agronomic
	(Agri + Hort +	Horti. – Orange, Tapioca,	practices for different crops
	Animal Husbandry)	colocasia, vegetables,	2. Lack of knowledge and
	FS-6	ginger, chili, pineapple,	unavailability of quality
	(AES-III)	banana	high yielding seeds of
	(Agri + Hort + Animal	Animal Husb. – Mithun	paddy
	Husbandry+	cattle, pig, goat,	3. Lack of knowledge about
			2. Luck of knowledge about

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Fishery)	elephant, duck and	IPM/ INM of different crops
	poultryFishery – Fish	4. Lack of knowledge
	species	regarding production and
	Rohu, Catla, Grass Carp,	use of organic manures
	Silver Carp and Common	5. Lack of knowledge
	Carp, Local species	regarding soil and moisture
		conservation techniques.
		6. Lack of knowledge about
		different cropping system
		7. Lack of knowledge about
		bio-fertilizer and bio-
		pesticides
		Horticulture:
		1. Scientific cultivation of
		fruits & vegetables
		2. Value addition of under
		exploited crops. 3.
		Scientific cultivation of
		ornamental flowers.
		4. Scientific cultivation of
		mushroom.
		Animal Husbandry :
		1. Scientific rearing of poultry
		2. Scientific rearing of pig
		 Management of FMD of cattle
		4. Management of Ranikhet
		disease of poultry
		5. Management of Swine
		fever & parasitic disease of
		pig
		6. Feed management of pig &
		poultry
		7. Upgradation of local breed
		8. Pig-poultry- fish integrated
		farming system

SI. No.	Farming system	Crop under the FS	
1	Low altitude, Rainfed:	Agri - WRC/ upland	Agriculture : (Agronomy + Plant
		paddy, Potato,	protection) Training on
	FS-1 (AES-I)	mustard, maize,	1. Scientific cultivation practices of
	(Agri + Hort +	soybean, local pulses,	paddy, maize, mustard, sugarcane
	Animal Husbandry)	tea	and pulses
		Horti. – Banana,	2. Awareness on high yielding
	FS-2 (AES-I)	Pineapple, citrus	varieties of paddy, maize, mustard
	(Agri + Hort +	Vegetables, ginger,	and pulses
	Animal Husbandry +	chili, betel vine	3. IPM/ INM/IDM of paddy, maize,
	Fishery)	Animal Husb. –Cattle,	mustard, pulses
		pig, goat, elephant,	4. Production and use of organic
		duck and poultry	manures
		Fishery – Fish species	5. Fodder production technology.
		Rohu, Catla, Grass	6. Awareness about paddy and maize
		Carp, Silver Carp and	based cropping system and
		Common Carp, Local	integrated farming system
		species	7. Awareness about bio-fertilizer and
			bio-pesticides
			8. Biointensive IPM for stemborer
			9. Oyster Mushroom cultivation
			technology
			10. Biological control of water hyacinth
			11. Training on apiculture
			12. Bio-control of pests and diseases
			FLD on
			1. Demonstration of HYV of green
			gram
			2. Demonstration of HYV of black
			gram
			 Sali rice cultivation in flash flood situation
			4. Demonstration of perennial forage
			grass
			5. Cultivation of HYV of rapeseed
			 Cultivation of HYV of sesamum
			 Winter paddy- vegetable cropping
			system
			8. Biocontrol of stemborer and leaf
			8. Biocontrol of stemborer and leaf

Extension strategy for each farming system and crop

folder in rice
9. Rhizome rot management in Ginger
using Biofor-Pf
10. Management of rice hispa using
mycoinsecticides
Horticulture:
Training on:
1. Scientific cultivation practices of
broccoli, turmeric
2. Integrated nutrient management in
khasi mandarin
3. Improved cultivation practices in
arecanut
4. Management of fruit dropping in
Khasi Mandarin
5. Production of low volume and high
value crops
6. Production and maintenance of
spices like ginger, turmeric
7. Rejuvenation of old orchards
8. Management of young plants/
orchards
FLD on :
1. Introduction of Brocolli in Lohit
District
2. INM in Khasi Mandarin
3. Performance of turmeric variety-
Megha Turmeric-1
4. Performance of Variety Arecanut
Var. Kahikuchi selection in Lohit
District
5. Demonstration of Ginger Variety of
Nadia
Animal Husbandry :
Training on
1. Introduction of improved housing
system of goat
2. Chemical castration

3. Improved milk production by
balance feeding
4. Increases fertility rate with AI
5. Introduction of improved breed
6. Introduction of small scale
intensive system
7. Improved management practices of Diary/Poultry/Piggery/ Rabbit
8. Disease management in livestocks
9. Livestock feed and fodder
production
10. Cross breed Dairy farming as
source of income
FLD on :
1. Introduction of improved housing
system of goat
2. Chemical castration
3. Improved milk production by
balance feeding
4. Increasing fertility rate with AI
5. Introduction of improved breed
6. Introduction of small scale
intensive system
Fishery Training on:
1. Integrated fish farming
2. Post mansoon culture of carps
3. Carp breeding and hatchery management
4. Carp fry and fingerling rearing
5. Composite fish culture
6. Breeding and culture of ornamental
fishes
7. Portable plastic carp hatchery
8. Pen culture of fish and prawn
OFT on :
1. Carp fry and fingerling rearing
FLD on :

			1. Integrated fish farming
			2. Post monsoon culture of carps
2.	Medium altitude,		Agriculture : (Agronomy + Plant
	Rainfed		protection)
	Kumeu	Agri - WRC/ upland	Training on
	FS-3 (AES-II)	paddy, Potato,	1. Scientific cultivation practices of
	(Agri + Hort +	mustard, maize,	paddy, maize, mustard, sugarcane
	Animal Husbandry)	soybean, local pulses	and pulses
	Animai Husbanaryj	Horti. – Banana,	
			2. Awareness on high yielding
	FS-4 (AES-II)	Pineapple, citrus	varieties of paddy, maize, mustard
	(Agri + Hort +	Vegetables, ginger,	and pulses
	Animal Husbandry +	chili, betel vine	3. IPM/ INM/IDM of paddy, maize,
	Fishery)	Animal Husb. – Cattle,	mustard, pulses
		pig, goat, elephant,	4. Production and use of organic
		duck and poultry	manures
		Fishery – Fish species	5. Fodder production technology.
		Rohu, Catla, Grass	6. Awareness about paddy and maize
		Carp, Silver Carp and	based cropping system and
		Common Carp, Local	integrated farming system
		species	7. Awareness about bio-fertilizer and
			bio-pesticides
			8. Bio-intensive IPM for stemborer
			9. Oyster Mushroom cultivation
			technology
			10. Biological control of water hyacinth
			11. Training on apiculture
			12. Bio-control of pests and diseases
			FLD on
			1. Demonstration of HYV of green
			gram
			2. Demonstration of HYV of black
			gram
			3. Sali rice cultivation in flash flood
			situation
			4. Demonstration of perennial forage
			grass
			5. Cultivation of HYV of rapeseed
			6. Cultivation of HYV of sesamum
			7. Winter paddy- vegetable cropping

system
8. Biocontrol of stemborer and leaf
folder in rice
9. Rhizome rot management in Ginger
using Biofor - Pf
10. Management of rice hispa using
mycoinsecticides
Horticulture:
Training on:
1. Scientific cultivation practices of
broccoli, turmeric
2. Integrated nutrient management in
khasi mandarin
3. Improved cultivation practices in
arecanut
4. Management of fruit dropping in
Khasi Mandarin
5. Production of low volume and high
value crops
6. Production and maintenance of
spices like ginger,
turmeric
7. Rejuvenation of old orchards
8. Management of young plants/
orchards
FLD on :
1. Introduction of Brocolli in Lohit
District
2. INM in Khasi Mandarin
3. Performance of turmeric variety-
Megha Turmeric-1
4. Performance of Variety Arecanut
Var. Kahikuchi selection in Lohit
District
5. Demonstration of Ginger Variety of
Nadia
Animal Husbandry :
Training on
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		1.	1 3
			system of goat
			Chemical castration
		3.	Improved milk production by
			balance feeding
			Increases fertility rate with AI
			Introduction of improved breed
		6.	Introduction of small scale
			intensive system
		7.	Improved management practices of
			Diary/Poultry/Piggery/ Rabbit
		8.	Disease management in livestocks
		9.	Livestock feed and fodder
			production
		10.	Cross breed Dairy farming as
			source of income
		FLC	D on :
		1.	Introduction of improved housing
			system of goat
		2.	Chemical castration
		3.	Improved milk production by
			balance feeding
		4.	Increasing fertility rate with AI
		5.	Introduction of improved breed
		6.	Introduction of small scale
			intensive system
		Fis	hery
		Tra	ining on:
		1.	Integrated fish farming
		2.	Post mansoon culture of carps
		3.	Carp breeding and hatchery
			management
		4.	Carp fry and fingerling rearing
		5.	Composite fish culture
		6.	Breeding and culture of ornamental
			fishes
		7.	Portable plastic carp hatchery
		8.	Pen culture of fish and prawn
	,		

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			OFT on :
			1. Carp fry and fingerling rearing
			FLD on :
			1. Integrated fish farming
			2. Post monsoon culture of carps
3.	High altitude, Rainfed	Agri - Upland paddy,	Agriculture : (Agronomy + Plant
		maize, millet, local	protection)
	FS-5 (AES-III)	pulses	Training on
	(Agri + Hort +	Horti. – Orange,	1. Scientific cultivation practices of
	Animal Husbandry)	Tapioca, colocasia,	paddy, maize, and pulses
	FS-6	vegetables, ginger,	2. Awareness on high yielding
	(AES-III)	chili, pineapple,	varieties of paddy, maize.
	(Agri + Hort +	banana	3. IPM/ INM/IDM of paddy, maize.
	Animal Husbandry+	Animal Husb. – Mithun	4. Production and use of organic
	Fishery)	cattle, pig, goat,	manures
		elephant, duck and	5. Fodder production technology.
		poultryFishery – Fish	6. Awareness about paddy and maize
		species	based cropping system and
		Rohu, Catla, Grass	integrated farming system
		Carp, Silver Carp and	7. Awareness about bio-fertilizer and
		Common Carp, Local	bio-pesticides
		species	8. Bio-intensive IPM for stemborer
		species	9. Oyster Mushroom cultivation
			technology
			10. Training on apiculture
			11. Bio-control of pests and diseases
			11. Dio-control of pests and diseases
			FLD on
			1. Demonstration of perennial forage
			grass
			2. Cultivation of HYV of sesamum
			3. Winter paddy- vegetable cropping
			system
			4. Bio-control of stemborer and leaf
			folder in rice
			5. Rhizome rot management in Ginger
			using Biofor - Pf
			6. Management of rice hispa using
			mycoinsecticides
			,
	l		

Horticulture:
Training on:
1. Scientific cultivation practices of
broccoli, turmeric
2. Integrated nutrient management in
khasi mandarin
3. Improved cultivation practices in
arecanut
4. Management of fruit dropping in
Khasi Mandarin
5. Production of low volume and high
value crops
6. Production and maintenance of
spices like ginger, turmeric
7. Rejuvenation of old orchards
8. Management of young plants/
orchards
FLD on :
1. Introduction of Brocolli in Lohit
District
2. INM in Khasi Mandarin
3. Performance of turmeric variety-
Megha Turmeric-1
4. Demonstration of Ginger Variety of
Nadia
Animal Husbandry :
Training on
1. Introduction of improved housing
system of goat
2. Chemical castration
3. Improved milk production by
balance feeding
4. Increases fertility rate with AI
5. Introduction of improved breed
6. Introduction of small scale
intensive system
7. Improved management practices of

г.	
	Diary/Poultry/Piggery/ Rabbit
	8. Disease management in livestocks
	9. Livestock feed and fodder
	production
	10. Cross breed Dairy farming as
	source of income
	FLD on :
	1. Introduction of improved housing
	system of goat
	2. Chemical castration
	3. Improved milk production by
	balance feeding
	4. Increasing fertility rate with AI
	5. Introduction of improved breed
	6. Introduction of small scale
	intensive system
	Fishery
	Training on:
	1. Integrated fish farming
	2. Carp breeding and hatchery
	management
	3. Carp fry and fingerling rearing
	5. Composite fish culture
	6. Portable plastic carp hatchery
	OFT on :
	1. Carp fry and fingerling rearing
	FLD on :
	1. Integrated fish farming
	 Integrated fish farming Post monsoon culture of carps

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SI. No.	Farming System	Crops under the FS		Extension gaps identified
1	Agriculture + Livestock	Rice, Maize, Mustard,	1.	
	Farming	Potato, Ginger, Pigs,		Demonstration on latest
		Mithuns, Poultry		technology
2	Agriculture + Horticulture	Rice, Maize, Pineaplle,	1.	Awareness and CBs
		Orange, Ginger, Chilli,		programme on latest
		Sugarcane		technology
			2.	Lack of exposure visit
			3.	Lack of Field visit by
				Extension. Functionaries
3	Livestock farming +	Pig, poultry, Mithun,		Lack of Training and
	Agriculture + Horticulture	Cattle, Paddy, Maize,		demonstration on latest
		Orange, Pineapple,		technology by the Extension
		Ginger, Chilli		functionaries
4	Silviculture + cropping	Albizzia sp, Teak,	a.	lack of technical know how
	system (Agri + Horti)	orange, Rice, Maize,	b.	3
		Pineapple, Tea		demonstration on value
				addition activities
5	Livestock farming +	Poultry, Cattle, Goat,	a.	Poor scientific management
	Fisheries + Agriculture +	Pigs, Mithuns, Carp		of cattle, poultry and
	Horticulture	culture(Catla, Rohu,		piggery due to lack of
		Mrigal, Silver Carp),		training and demonstration
		Paddy, Maize,	١.	by Extension functiobnaries
		Pineapple, Ginger etc	b.	5
				Programme is not regularly
				Organized by the Govt. officials
			_	lack of knowledge on
			с.	scientific method of fish
				culture (stocking pattern of
				fish fingerlings and fast
				growing species of fishehs)
			d.	
				demonstration on HYV and
				Hybrid of paddy, maize,
				cabbage, guave etc.

1. Extension gaps for each farming system and crop

SI. No.	Farming System	Crops under the FS		tension priorities finalized
1		Rice, Maize, Mustard,		
	Agriculture + Livestock		1.	Motivation and change the
	Farming	Potato, Ginger, Pigs,		mindset of farmers towards
		Mithuns, Poultry		scientific method of crop
				cultivation and livestock
				rearing with community
				participatory approach (CBs,
				Awareness campaign,
				training and demonstration)
			2.	FLDs on proven technology
2	Agriculture + Horticulture	Rice, Maize, Pineaplle,	a.	Training and demonstartuion
		Orange, Ginger, Chilli,		on INM/IPM/IWM of major
		Sugarcane		crops
			b.	Radio talks and literature
				publication in local dialects
3	Livestock farming +	Pig, poultry, Mithun,	a.	Training and demonstration
	Agriculture + Horticulture	Cattle, Paddy, Maize,		on INM/IPM/IWM of paddy,
		Orange, Pineapple,		orange, pineapple
		Ginger, Chilli	b.	Field visit by SMS
			с.	To organized Kisan Ghosti
4	Silviculture + Agri + Horti	Albizzia sp, Teak,	a.	Training and demonstration
		orange, Rice, Maize,		on improved package of
		Pineapple, Tea		practices, value addition
				activities like grading,
				packaging etc
			b.	Farmers field visit by SMSs,
				ADO, RFO, HDO and Field
				Assistant
			с.	a-forestation programme
5	Livestock farming +	Poultry, Cattle, Goat,	a.	Training and demonstration
	Fisheries + Agriculture +	Pigs, Mithuns, Carp		for scientific feeding and
	Horticulture	culture(Catla, Rohu,		management of cattle,
		Mrigal, Silver Carp),		piggery, fisheries.
		Paddy, Maize, Pineapple,	b.	Record keeping of breeds of
		Ginger etc		Cattle
		-	с.	Training and demonstration
				on improved variety of
				Paddy, pineapple
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SI. No.	Farming System	Crops under the FS	Extension strategy proposed
1	Agriculture + Livestock	Rice, Maize, Mustard,	1. Field visit for inspection of
	Farming	Potato, Ginger, Pigs,	major insect-pest and
		Mithuns, Poultry	diseases attack
			2. CBs and Awareness
			Programme
			 Revamping of extension machineries and motivation through, positive demonstration effect (to conduct FLDs)
2	Agriculture+ Horticulture	Rice, Maize, Pineaplle, Orange, Ginger, Chilli,	a. To conduct tranings and FLDs on INM/IPM/IWM for
		Sugarcane	Paddy, Maize, Pineaplle, orange etc.
			b. To Conducts FLDs on hybrid
			variety of Paddy and Ginger
3	Livestock farming +	Pig, poultry, Mithun,	a. FLDs on proven technology
	Agriculture + Horticulture	Cattle, Paddy, Maize,	to be conducted at farmers
		Orange, Pineapple,	field
		Ginger, Chilli	 Exposure visit of the farmers
4	Silviculture + Agri + Hort	Albizzia sp, Teak, orange, Rice, Maize, Pineapple, Tea	 Training and demonstration programme to conduct on preparation of squah, jam, jellies etc
			b. Agro-foresrty programme
			c. Bench mark survey of plant
			resource of economic
			importance
5	Livestock farming +	Poultry, Cattle, Goat,	a. Motivational and awareness
	Fisheries + Agriculture +	Pigs, Mithuns, Carp	programme to be conducted
	Horticulture	culture (Catla, Rohu,	on scientific feeding and
		Mrigal, Silver Carp),	management of cattle,
		Paddy, Maize, Pineapple,	piggery, fisheries.
		Ginger etc	b. Mass vaccination and
			deworming programme to

3. Extension strategy for each farming system and crop

		be conductedfor Livestock
		for FS areas
	c.	FLDs on releasing fish
		fingerlings
	d.	Training and demonstration
		on technical know how of
		paddy, maize, pineapple,
		ginger.

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4. Development Strategies for Tirap .

SI. No	Farming system	Crops under the FS		ension gaps identified
1.	Low altitude,	Agriculture :		riculture :
	Rainfed	(WRC/ upland paddy,	1.	Lack of knowledge about scientific
		maize, millet,		agronomic practices for different crops
	FS- 1	soyabean, mustard,	2.	Lack of knowledge and unavailability of
	(Agri.+ Horti.+	local pulses, tea)		quality high yielding seeds of paddy,
	Pisciculture+	Horticulture:		pulses and oilseed
	Animal husb.+	(Tapioca, colocasia,	З	Lack of knowledge about IPM/ INM of
	Forestry)	sweet potato,	51	different crops
	i or cotry y	vegetables(cucurbits,	4	Lack of knowledge regarding
	FS-2	solanacea, cruciferae, ok	т.	production and use of organic manures
			F	
	(Agri.+ Horti.+	ra) ginger,	5.	Lack of knowledge regarding soil and
	Animal husb.+	chili, black pepper,	~	moisture conservation techniques.
	Forestry)	betelvine, arecanut,	6.	Lack of knowledge about different
		citrus, (pummelo,	_	cropping system
		lemon, limes)	7.	Lack of knowledge about different
		pineapple, banana,	-	suitable pulses and oilseed for this area
		papaya, litchi, plum,	8.	Lack of knowledge about bio-fertilizer
		jackfruit		and bio-pesticides.
		guava, mango)		
		Pisciculture: Catla,		rticulture:
		Rohu, Mrigal, Silver	1.	Lack of knowledge on scientific
		Carp, Grass Carp and		cultivation of fruits & vegs.
		Common Carp	2.	Lack of awareness of symptoms of pest
		Animal Husbandry. –		& diseases & their control measures.
		(Cattle, Pig, Goat and	3.	Lack of knowledge on fruits & vegs.
		Poultry)		Preservation & processing.
			4.	lack of awareness on utilization of
				underexploited crops.
			5.	Lack of knowledge & awareness on
				scientific 0f ornamentals flowers
			6.	Lack of knowledge & awareness on
				cultivation of mushroom.
			An	imal Husbandry :
			1.	Lack of knowledge about scientific
				rearing system of poultry and pig
			2.	Lack of knowledge on scientific disease
				management of cattle, pig & poultry

1. Extension gaps for each farming system and crop

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			3.	Lack of knowledge about quality feed
				Use of local undescript breeds
			5.	Lack of awareness about improved
				breeds
			6.	Lack of knowledge about integration of
				different enterprises
			Pis	sciculture:
				Lack of knowledge about composite
				fish culture
				Lack of knowledge about low cost
				integrated fish farming systems.
				Lack of awareness about scientific fish
				husbandry practices.
2.	Mid altitude,	Agriculture :	Aq	riculture :
	Rainfed	(WRC/ upland paddy,	-	Lack of knowledge about scientific
	FS- 3	maize, millet, soybean,		agronomic practices for different crops
	(Agri.+ Horti.+	local pulses & oilseeds,	2.	Lack of knowledge and unavailability of
	Pisciculture+	tea)		quality high yielding seeds of paddy,
	Animal husb.+	Horticulture :		pulses and oilseed
	Forestry)	(Tapioca, colocasia,	3.	
	FS- 4	sweet potato,		different crops
	(Agri.+ Horti.+	vegetables, gimger,	4.	Lack of knowledge regarding
	Animal husb.+	chili, betel vine, ,citrus,		production and use of organic manures
	Forestry)	pineapple, banana)	5.	
	, , ,	Pisciculture –		moisture conservation techniques.
		Catla, Rohu, Mrigal,	6	Lack of knowledge about different
		Silver Carp, Grass Carp	0.	cropping system
		and Common Carp	7	Lack of knowledge about different
		Animal Husbandry : (/.	suitable pulses and oilseed for this area
		Cattle, Pig, Goat and	8.	Lack of knowledge about bio-fertilizer
		Poultry)	0.	and bio-pesticides.
				and bio pesticides.
			Но	rticulture:
			1.	Lack of knowledge on scientific
				cultivation of fruits & vegs.
			2.	Lack of awareness of symptoms of pest
				& diseases & their control measures.
			3.	Lack of knowledge on fruits & vegs.
				Preservation & processing.
			4.	lack of awareness on utilization of

underevoloited crone	
underexploited crops.	
5. Lack of knowledge & av	
scientific 0f ornamenta	ls flowers
6. Lack of knowledge & av	wareness on
cultivation of mushroor	n.
Animal Husbandry :	
1. Lack of knowledge abo	ut scientific
rearing system of poul	ry and pig
2. Lack of knowledge on s	cientific disease
management of cattle,	pig & poultry
3. Lack of knowledge abo	ut quality feed
4. Use of local undescript	breeds
5. Lack of awareness abo	ut improved
breeds	
6. Lack of knowledge abo	ut integration of
different enterprises	
Pisciculture:	
Lack of knowledge abo	ut composite
fish culture	
Lack of knowledge abo	ut low cost
integrated fish farming	systems.
Lack of awareness abo	ut scientific fish
husbandry practices.	
3. High altitude, Agriculture : Agriculture :	
Rainfed (Upland paddy, maize, 1. Lack of knowledge abo	ut scientific
millet, soybean, local agronomic practices for	r different crops
FS- 5 pulses) 2. Lack of knowledge and	unavailability of
(Agri.+ Horti.+ Horticulture : quality high yielding se	eds of paddy
Pisciculture+ (Tapioca, colocasia, 3. Lack of knowledge abo	ut IPM/ INM of
Animal husb.+ sweet potato, different crops	
Forestry) vegetables, gimger, 4. Lack of knowledge rega	arding
chili, betel vine, ,citrus, production and use of o	organic manures
FS- 6 pineapple, banana) 5. Lack of knowledge rega	arding soil and
(Agri.+ Horti.+ Pisciculture - Silver moisture conservation	techniques.
Animal husb.+ Carp, Grass Carp and 6. Lack of knowledge abo	ut different
Forestry) Common Carp cropping system	
Animal Husbandry : 7. Lack of knowledge abo	ut bio-fertilizer
(Cattle, Pig, Goat and and bio-pesticides.	
Poultry)	

Horticulture:
1. Lack of knowledge on scientific
cultivation of fruits & vegs.
2. Lack of awareness of symptoms of pest
& diseases & their control measures.
3. Lack of knowledge on fruits & vegs.
Preservation & processing.
4. lack of awareness on utilization of
underexploited crops.
5. Lack of knowledge & awareness on
scientific 0f ornamentals flowers
6. Lack of knowledge & awareness on
cultivation of mushroom.
Animal Husbandry :
1. Lack of knowledge about scientific
rearing system of poultry and pig
2. Lack of knowledge on scientific disease
management of cattle, pig & poultry
3. Lack of knowledge about quality feed
4. Use of local undescript breeds
5. Lack of awareness about improved
breeds
6. Lack of knowledge about integration of
different enterprises
Pisciculture:
Lack of knowledge about composite
fish culture
Lack of knowledge about low cost
integrated fish farming systems.
Lack of awareness about scientific fish
husbandry practices.

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Low altitude,	Agriculture :	Agriculture :
	Rainfed	(WRC/ upland paddy,	1. Lack of knowledge about scientific
		maize, millet, soybean,	agronomic practices for different
	FS- 1	mustard, local pulses,	crops
	(Agri.+ Horti.+	tea)	2. Lack of knowledge about IPM/ INM of

Pisciculture+	Horticulture:	_	different crops
Animal husb.+	(Tapioca, colocasia,	3.	Lack of knowledge about different
Forestry)	sweet potato,		cropping system
50.0	vegetables(cucurbits,	4.	Lack of knowledge regarding
FS-2	solanacea,cruciferae,ok		production and use of organic
(Agri.+ Horti.+	ra) ginger,	_	manures
Animal husb.+	chili, black pepper,	5.	Lack of knowledge regarding soil and
Forestry)	betelvine, arecanut		moisture conservation techniques.
	,citrus,(pummelo,	6.	Lack of knowledge about different
	lemon, limes)		suitable pulses and oilseed for this
	pineapple, banana,		area
	papaya, litchi, plum,	7.	Lack of knowledge and unavailability
	jackfruit		of quality high yielding seeds of
	guava, mango)		paddy, pulses and oilseed
	Animal Husbandry. –	8.	Lack of knowledge about bio-fertilizer
	(Cattle, Pig, Goat and		and bio-pesticides.
	Poultry)		
	Pisciculture:	Но	rticulture:
	Catla, Rohu, Mrigal,	1.	Scientific cultivation of fruits & vegs.
	Silver Carp, Grass Carp	2.	Value addition of under exploited
	and Common Carp		crops. 3. Scientific cultivation of
			ornamental flowers.
		4.	Scientific cultivation of mushroom.
		An	imal Husbandry :
		1.	Scientific rearing of poultry
		2.	Scientific rearing of pig
		3.	Management of FMD of cattle
		4.	Management of Ranikhet disease of
			poultry
		5.	Management of Swine fever &
			parasitic disease of pig
		6.	Feed management of pig & poultry
		7.	Upgradation of local breed
		8.	Pig-poultry- fish integrated farming
			system
	1	Pis	sciculture:
			Promotion of composite fish culture
			Promotion of composite fish culture technology suitable for low altitude

			1	Promotion of low cost integrated fich
				Promotion of low cost integrated fish
				farming technology.
				Awareness regarding scientific fish
				husbandry practices.
2.	Mid altitude,	Agriculture :	-	riculture :
	Rainfed	(WRC/ upland paddy,	1.	Lack of knowledge about scientific
		maize, millet,		agronomic practices for different
	FS- 3	soyabean, local pulses		crops
	(Agri.+ Horti.+ Pisciculture+	& oilseeds, tea) Horticulture :	2.	Lack of knowledge about IPM/ INM of different crops
	Animal husb.+ Forestry)	(Tapioca, colocasia, sweet potato,	3.	Lack of knowledge about different cropping system
		vegetables, gimger,	4.	Lack of knowledge regarding
	FS- 4	chili, betel vine, ,citrus,		production and use of organic
	(Agri.+ Horti.+	pineapple, banana)		manures
	Animal husb.+	Pisciculture:	5.	Lack of knowledge regarding soil and
	Forestry)	Catla, Rohu, Mrigal,		moisture conservation techniques.
		Silver Carp, Grass Carp	6.	Lack of knowledge about different
		and Common Carp		suitable pulses and oilseed for this
		Animal Husbandry : (area
		Cattle, Pig, Goat and	7.	Lack of knowledge and unavailability
		Poultry)		of quality high yielding seeds of
				paddy, pulses and oilseed
			8.	Lack of knowledge about bio-fertilizer
				and bio-pesticides.
			Но	orticulture:
			1.	Scientific cultivation of fruits & vegs.
			2.	Value addition of under exploited
				crops.
			3.	Scientific cultivation of ornamental
				flowers.
			4.	Scientific cultivation of mushroom.
			An	imal Husbandry :
			1.	Scientific rearing of poultry
			2.	Scientific rearing of pig
			3.	Management of FMD of cattle
			4.	Management of Ranikhet disease of
				poultry
			5.	Management of Swine fever &

	1		
			parasitic disease of pig
			6. Feed management of pig & poultry
			7. Upgradation of local breed
			8. Pig-poultry- fish integrated farming
			system
			Pisciculture:
			Promotion of composite fish culture
			technology suitable for mid altitude
			regions of Tirap district.
			Promotion of low cost integrated fish
			farming technology.
			Awareness regarding scientific fish
			husbandry practices.
3.	High altitude,	Agriculture :	Agriculture :
	Rainfed	(Upland paddy, maize,	1. Lack of knowledge about scientific
		millet, soyabean, local	agronomic practices for different
	FS- 5	pulses)	crops
	(Agri.+ Horti.+	Horticulture :	2. Lack of knowledge and unavailability
	Pisciculture+	(Tapioca, colocasia,	of quality high yielding seeds of
	Animal husb.+	sweet potato,	paddy
	Forestry)	vegetables, gimger,	3. Lack of knowledge about IPM/ INM of
		chili, betel vine, ,citrus,	different crops
	FS- 6	pineapple, banana)	4. Lack of knowledge regarding
	(Agri.+ Horti.+	Pisciculture - Silver	production and use of organic
	Animal husb.+	Carp, Grass Carp and	manures
	Forestry)	Common Carp	5. Lack of knowledge regarding soil and
		Animal Husbandry :	moisture conservation techniques.
		(Cattle, Pig, Goat and	6. Lack of knowledge about different
		Poultry)	cropping system
		, ,	7. Lack of knowledge about bio-fertilizer
			and bio-pesticides
			Horticulture:
			1. Scientific cultivation of fruits & vegs.
			 Value addition of under exploited
			crops. 3. Scientific cultivation of
			ornamental flowers.
			omamentai nowers.

4. Scientific cultivation of mushroom.
Animal Husbandry :
1. Scientific rearing of poultry
2. Scientific rearing of pig
3. Management of FMD of cattle
4. Management of Ranikhet disease of
poultry
5. Management of Swine fever &
parasitic disease of pig
6. Feed management of pig & poultry
7. Upgradation of local breed
8. Pig-poultry- fish integrated farming
system

strategy proposed
vation practices of paddy,
d and pulses
high yielding varieties
e, mustard and pulses
addy, maize, mustard,
l use of organic manures
ure conservation
out paddy and maize
g system
out bio-fertilizer and bio-
of acidic soil.
rol of paddy stem borer
own upland paddy
anted paddy
HYV of greengram

 Common Corn	E Cultivation of UV/ of blockgrom
Common Carp	5. Cultivation of HYV of blackgram
Animal Husbandry. –	6. Cultivation of HYV of rapeseed
(Cattle, Pig, Goat and	7. Cultivation of HYV of sesamum
Poultry)	8. Winter paddy- vegetable cropping
	system
	Demonstration on :
	1. Seedling treatment of paddy
	2. Use of bio-fertilizer in paddy, oilseed
	and pulses
	3. Production of compost
	4. Production of vermicompost
	5. Control measure against stem borer,
	gall midge and Gandhi bug of paddy
	6. Control measure against maize top
	borer
	Horticulture:
	Training on:
	1. Scientific cultivation practices of
	cabbage & cauliflower.
	2. Scientific cultivation practices of chilli.
	3. Off season vegetable cultivation.
	4. Scientific cultivation practices of radish.
	5. Nursery management technique in
	vegetables.
	6. Scientific cultivation practices in
	seasonal flowers.
	7. Oyster mushroom cultivation
	technology.
	8. Technology for commercial cultivation
	of pineapple.
	 9. Post harvest management of Tapioca &
	Colocasia.
	10. Seed & soil treatment for pest &
	disease management in winter
	vegetables.
	11. Preparation & preservation of Jackfruit
	& cucumber pickle.
	12. Preparation of fruit beverages from
	pineapple.

Method Demonstration on
1. Seed & soil treatment for vegs.
Nursery.
2. seed treatment of ginger
3. Air layering in litchi
FLD on :
 High Density Planting in Queen Var. of Pineapple.
2. Cultivation of HYV of Tomato with
respect to fertility .management. &
plant protection.
3. High Density Planting of banana. var.
Dwarf cavendish.
4. Cultivation of HYV of cucumber with
rsspect to fertizer managemwnt &
plant protection.
5. Cultivation of Tapioca with disease &
pest management practices
Animal Husbandry :
Training on
1. Scientific rearing of poultry
2. Scientific rearing of pig
3. Management of FMD of cattle.
4. Management of Ranikhet disease of
poultry.
5. Management of Swine fever and
parasitic disease of pig.
6. Quality feed
7. Upgradation of local breed
FLD on :
1. Improved breed of poultry
2. Scientific management of pig
3. Scientific management of poultry
4. Scientific management of goat
5. Feed formulation for poultry
6. Feed formulation for pig
7. Floor type for increasing production of

			Method Demonstration on
			1. Preparation of quality feed
			2. Vaccination against Ranikhet disease
			Pisciculture
			Training on
			Scientific fish culture technology
			Composite fish culture
			Integrated fish farming technologies
			Water quality management in fish culture
			Cure and prevention of fish diseases
			Quality fish seed for fish culture
			Method Demonstration on
			Pond water quality management for
			fish culture
			Induced breeding technology
			Fish health management
			Scientific fish husbandry practices
2.	Mid altitude,	Agriculture :	Agriculture :
	Rainfed	(WRC/ upland paddy,	Training on
		maize, millet, soyabean,	1. Scientific cultivation practices of paddy,
	FS- 3	local pulses & oilseeds,	maize and pulses
	(Agri.+ Horti.+	tea)	2. Awareness on high yielding varieties
	Pisciculture+	Horticulture :	of paddy, maize and pulses
	Animal husb.+	(Tapioca, colocasia,	3. IPM/ INM of paddy, maize, pulses
	Forestry)	sweet potato,	4. Production and use of organic manures
		vegetables, gimger,	5. Soil and moisture conservation
	FS- 4	chili, betel vine, ,citrus,	techniques.
	(Agri.+ Horti.+	pineapple, banana)	6. Awareness about paddy and maize
	Animal husb.+	Pisciculture - Catla,	based cropping system
	Forestry)	Rohu, Mrigal, Silver	7. Awareness about bio-fertilizer and bio-
		Carp, Grass Carp and	pesticides
		Common Carp	8. Management of acidic soil.
		Animal Husbandry :	
		(Cattle, Pig, Goat and	FLD on
		Poultry)	1. Biological control of paddy stem borer
			2. INM in direct sown upland paddy
			3. INM in transplanted paddy
			4. Cultivation of HYV of greengram
			5. Cultivation of HYV of blackgram
			6. Cultivation of HYV of sesamum

7. Winter paddy- vegetable cropping
system
Demonstration on :
1. Seedling treatment of paddy
2. Use of bio-fertilizer in paddy, oilseed
and pulses
3. Production of compost
4. Production of vermicompost
5. Control measure against stem borer,
gall midge and Gandhi bug of paddy
6. Control measure against maize top
borer
Horticulture:
Training on:
1. Scientific cultivation practices of
cabbage & cauliflower.
2. Scientific cultivation practices of chilli.
3. Off season vegetable cultivation.
4. Scientific cultivation practices of radish.
 Nursery management technique in vegetables.
6. Scientific cultivation practices in
seasonal flowers.
7. Oyster mushroom cultivation
technology.
8. Technology for commercial cultivation
of pineapple.
9. Post harvest management of Tapioca & Colocasia.
10. Seed & soil treatment for pest &
disease management in winter
vegetables.
11. Preparation & preservation of Jackfruit
& cucumber pickle.
12. Preparation of fruit beverages from
pineapple.
Method Demonstration on
1. Seed & soil treatment for vegs.

Nursery.
2. seed treatment of ginger
3. Air layering in litchi
FLD on :
1. High Density Planting in Queen Var. of
Pineapple.
2. Cultivation of HYV of Tomato with
respect to fertility .management. &
plant protection
3. High Density Planting of banana. var.
Dwarf cavendish.
4. Cultivation of HYV of cucumber with
rsspect to fertizer managemwnt &
plant protection.
5. Cultivation of Tapioca with disease &
pest management practices
Animal Husbandry :
Training on
1. Scientific rearing of poultry
2. Scientific rearing of pig
3. Management of FMD of cattle.
4. Management of Ranikhet disease of
poultry.
5. Management of Swine fever and
parasitic disease of pig.
6. Quality feed
7. Upgradation of local breed
Method Demonstration on
1. Preparation of quality feed
2. Vaccination against Ranikhet
diseasePisciculture
Training on
Scientific fish culture technology
Composite fish culture
Integrated fish farming technologies
Water quality management in fish culture
Cure and prevention of fish diseases

			Quality fish seed for fish culture
			Method Demonstration on
			Pond water quality management for
			fish culture
			Induced breeding technology
			Fish health management
			Scientific fish husbandry practices
3.	High altitude,	Agriculture :	Agriculture :
	Rainfed	(Upland paddy, maize,	Training on
		millet, soyabean, local	1. Scientific cultivation practices of paddy
	FS- 5	pulses)	and maize
	(Agri.+ Horti.+	Horticulture :	2. Awareness on high yielding varieties
	Pisciculture+	(Tapioca, colocasia,	of paddy and maize
	Animal husb.+	sweet potato,	3. IPM/ INM of paddy and maize
	Forestry)	vegetables, gimger,	4. Production and use of organic manures
		chili, betel vine, ,citrus,	5. Soil and moisture conservation
	FS- 6	pineapple, banana)	techniques.
	(Agri.+ Horti.+	Pisciculture –	6. Awareness about paddy and maize
	Animal husb.+	Silver Carp, Grass Carp	based cropping system
	Forestry)	and Common Carp	7. Awareness about bio-fertilizer and bio-
		Animal Husbandry :	pesticides
		(Cattle, Pig, Goat and	8. Management of acidic soil.
		Poultry)	_
			FLD on
			1. Biological control of paddy stem borer
			2. INM in direct sown upland paddy
			3. Maize - vegetable cropping system
			Demonstration on :
			1. Use of bio-fertilizer in paddy
			2. Production of compost
			3. Production of vermicompost
			4. Control measure against stem borer
			and gandhi bug of paddy
			Horticulture:
			Training on:
			1. Scientific cultivation practices of
			cabbage & cauliflower.
			2. Scientific cultivation practices of chilli.
			3. Off season vegetable cultivation.
L			-

4. Scientific cultivation practices of radish.
5. Nursery management technique in
vegetables.
6. Scientific cultivation practices in
seasonal flowers.
7. Oyster mushroom cultivation
technology.
8. Technology for commercial cultivation
of pineapple.
9. Post harvest management of Tapioca &
Colocasia.
10. Seed & soil treatment for pest &
disease management in winter
vegetables.
11. Preparation & preservation of Jackfruit
& cucumber pickle.
12. Preparation of fruit beverages from
pineapple.
Method Demonstration on
1. Seed & soil treatment for vegs.
Nursery.
Nursery. 2. seed treatment of ginger
2. seed treatment of ginger
2. seed treatment of ginger
 seed treatment of ginger Air layering in litchi
 seed treatment of ginger Air layering in litchi FLD on :
 seed treatment of ginger Air layering in litchi FLD on : High Density Planting in Queen Var. of
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 seed treatment of ginger Air layering in litchi FLD on : High Density Planting in Queen Var. of Pineapple. Cultivation of HYV of Tomato with respect to fertility .management. & plant protection High Density Planting of banana. var. Dwarf cavendish.
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Animal Husbandry :
Training on
 Scientific rearing of poultry
2. Scientific rearing of pig
3. Management of FMD of cattle.
4. Management of Ranikhet disease of
poultry.
5. Management of Swine fever and
parasitic disease of pig.
6. Quality feed
7. Upgradation of local breed
Method Demonstration on
1. Preparation of quality feed
2. Vaccination against Ranikhet disease
Pisciculture
Training on
5
Scientific fish culture technology
Scientific fish culture technology
Scientific fish culture technology Composite fish culture
Scientific fish culture technology Composite fish culture Integrated fish farming technologies
Scientific fish culture technology Composite fish culture Integrated fish farming technologies Water quality management in fish culture
Scientific fish culture technology Composite fish culture Integrated fish farming technologies Water quality management in fish culture Cure and prevention of fish diseases Quality fish seed for fish culture Method Demonstration on
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Scientific fish culture technology Composite fish culture Integrated fish farming technologies Water quality management in fish culture Cure and prevention of fish diseases Quality fish seed for fish culture Method Demonstration on Pond water quality management for fish culture Induced breeding technology
Scientific fish culture technology Composite fish culture Integrated fish farming technologies Water quality management in fish culture Cure and prevention of fish diseases Quality fish seed for fish culture Method Demonstration on Pond water quality management for fish culture

5. Development Strategies for West Kameng

SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri - Hort	Maize, Paddy, soybean,	Improper knowledge related to
		potato, cabbage, Apple,	agriculture, including improved seeds,
		Kiwi, Orange, Walnut,	fertilizers, implements, pesticides,
		livestock	cultural practices, dairying, poultry,
			nutrition etc., lack of exposure to
			commercial agriculture, lack of
			collaborative approach among different
			departments related to agriculture.
2	Hort – Agri -AH	Potato, buckwheat, yak	Improper knowledge related to
		and sheep	agriculture, including improved seeds,
			fertilizers, implements, pesticides,
			cultural practices, dairying, poultry,
			nutrition etc., lack of exposure to
			commercial agriculture, lack of
			collaborative approach among different
			departments related to agriculture.

1. Extension gaps for each farming system and crop

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agri - Hort	Maize, Paddy, soybean,	Adoption and diffusion of new
		potato, cabbage, Apple,	technologies, training and capacity
		Kiwi, Orange, Walnut,	building of farmers, exposure visit of
		livestock	farmers.
2	Hort – Agri - AH	Potato, buckwheat, yak	Adoption and diffusion of new
		and sheep	technologies, training and capacity
			building of farmers, exposure visit of
			farmers.

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1	Agri - Hort	Maize, Paddy, soybean,	Organizing production oriented and need
		potato, cabbage, Apple,	based short-term and long-term
		Kiwi, Orange, Walnut,	vocational training courses in agriculture
		livestock	and allied vocation to the farmers and
			rural youth, organizing FLD on various
			suitable crops, organizing training to
			update extension personnel with

			immerging advances in agricultural research on regular basis, organizing farm science clubs to inculcate in the younger generation a scientific temper and an interest in agricultural and allied sciences and for scientific to supervised individual and group projects, Exposure visit of farmers.
2	Hort – Agri - AH	Potato, buckwheat, yak and sheep	Organizing production oriented and need based short-term and long-term vocational training courses in agriculture and allied vocation to the farmers and rural youth, organizing FLD on various suitable crops, organizing training to update extension personnel with immerging advances in agricultural research on regular basis, organizing farm science clubs to inculcate in the younger generation a scientific temper and an interest in agricultural and allied sciences and for scientific to supervised individual and group projects, Exposure visit of farmers.

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SI. No	Farming System	Crops under the FS	Extension gaps identified
1.	Agri - Fishery	Fish crops: Catla, Rohu, Mrigal, Grass carp, Silver carp, Common carp Agricultural crop: Paddy	Lack of adoption of improved practices
2.	Agri - Hort	Rice, cole crops and vegetables	-do-
3.	Horticulture	Banana, khasi mandarin, Ginger, turmeric,tomato, cabbage etc.	-do-
4.	Animal Husbandry	Fodder grasses	-do-

SI. No	Farming System	Crops under the FS	Extension priorities finalized
1.	Paddy cum fish farming	Fish crops:	
		Catla, Rohu, Mrigal, Grass	
		carp, Silver carp, Common	
		carp	Farmers training
		Agricultural crop:	
		Paddy	
2.	Wet Rice Cultivation	Rice, cole crops and	
		vegetables	-do-
3.	Horticulture	Banana,khasi mandarin,	
		Ginger, turmeric, tomato,	-do-
		cabbage etc.	
4.	Integrated animal	Fodder grasses	-do-
	farming		40

SI. No	Farming System	Crops under the FS	Extension strategy proposed		
1.	Paddy cum fish farming	Fish crops:	Farmers training, field		
		Catla, Rohu, Mrigal, Grass	demonstration, awareness		
		carp, Silver carp, Common	campaigns, trial plots, field		
		carp	trips/farmers tour, exposure visit,		
		Agricultural crop:	exhibitions, farmers fare, leaflets,		
		Paddy	farm and home visit, result		
			demonstration.		
2.	Wet Rice Cultivation	Rice, cole crops and			
		vegetables	-do-		
3.	Horticulture	Banana, khasi mandarin,			
		Ginger, turmeric, tomato,	-do-		
		cabbage etc.			
4.	Integrated animal	Fodder grasses	-do-		
	farming				

7. Development Strategies for Lower Dibang Velley

S. N	Farming System	Crops under the FS	Ex	tension gaps identified
1	Agriculture +	Rice, Maize, Mustard,	1.	Lack of Training-cum-
	horticulture	Potato, Ginger, Orange,		Demonstration on latest
		Kiwi, Banana and		technology.
		Pineapple.	2.	Farmers lack confidence in adopting
				new technologies.
2	Agriculture+	Rice, Maize, ginger,	1.	Lack of awareness and CBs
	Livestock	mustard, pigs, cattles,		programme on latest technology
		poultry, and goatsetc.	2.	Lack of exposure visit
			3.	Lack of Field visit by Extension.
				Functionaries
3	Livestock farming +	Pig, poultry, Mithun,		Lack of Training and demonstration
	Agriculture +	Cattle, Paddy, Maize,		on latest technology by the
	Horticulture	Orange, Pineapple,		Extension functionaries
		Ginger, Chilli		
4	Silviculture + Agr +	Albizzia sp, Teak, Orange,	a.	Lack of technical know how
	Hort	Rice, Maize, Pineapple,	b.	Lack of training and demonstration
		Теа		on value addition activities
5	Livestock farming +	Poultry, Cattle, Goat, Pigs,	a.	Poor scientific management of
	Fisheries +	Mithuns, Carp culture		cattle, poultry and piggery due to
	Agriculture +	(Catla, Rohu, Mrigal,		lack of training and demonstration
	Horticulture	Silver Carp), Paddy,		by Extension functionaries
		Maize, Pineapple, Ginger	b.	Vaccination and deworming
		etc		Programme is not regularly
				organized by the Govt. officials
			c.	Lack of knowledge on scientific
				method of fish culture (stocking
				pattern of fish fingerlings and fast
				growing species of fishes)
			d.	Lack of training and demonstration
				on HYV and Hybrid of paddy, maize,
				cabbage, guave etc.

1. Extension gaps for each farming system and crop

	-	Change and an the EC	-
SI.No.	Farming System	Crops under the FS	Extension priorities finalized
1	Agriculture +	Rice, Maize, Mustard,	1. Motivation and change of the
	Livestock farming	Potato, Ginger, Pigs,	mindset of farmers towards
		Mithuns, Poultry	scientific method of crop cultivation
			and livestock rearing with
			community participatory approach
			(CBs, awareness campaign, training
			and demonstration)
			2. FLDs on proven technology
2	Agriculture +	Rice, Maize, Pineaplle,	a. Training and demonstration on
	Horticulture	Orange, Ginger, Chilli,	INM/IPM/IWM of major crops
		Sugarcane	b. Radio talks and literature
			publication in local dialects
3	Agriculture +	Pig, poultry, Mithun,	a. Training and demonstration on
	Horticulture+	Cattle, Paddy, Maize,	INM/IPM/IWM of paddy, orange,
	Livestock farming.	Orange, Pineapple,	pineapple
		Ginger, Chilli, orange,	b. Field visit by SMS
		kiwi, pineapple.	c. To organize Kisan Ghosti
4	Silviculture + Agri +	Albizzia sp, Teak, orange,	a. Training and demonstration on
	Hort	Rice, Maize, Pineapple,	improved package of practices,
		Теа	value addition activities like
			grading, packaging etc
			b. Farmers field visit by SMSs, ADO,
			RFO, HDO and Field Assistant
			c. Aforestation programme
5	Livestock farming +	Poultry, Cattle, Goat, Pigs,	a. Training and demonstration for
	Fisheries +	Mithuns, Carp culture	scientific feeding and management
	Agriculture +	(Catla, Rohu, Mrigal,	of cattle, piggery, fisheries.
	Horticulture	Silver Carp), Paddy,	b. Record keeping of breeds of Cattle
		Maize, Pineapple, Ginger	c. Training and demonstration on
		etc	improved variety of Paddy,
			pineapple
<u> </u>	1	1	

2. Extension priorities finalized for each farming system and crop

3. Extension strategy for each farming system and crop

SI. No.	Farming System	Crops under the FS		Extension strategy proposed
1	Agriculture +	Rice, Maize, Mustard,	1.	Field visit for inspection of major
	Livestock Farming	Potato, Ginger, Pigs,		insect-pest and diseases attack
		Mithuns, Poultry	2.	CBs and awareness programmes.
			3.	Revamping of extension

			1	
				machineries and motivation
				through, positive demonstration
				effect (to conduct FLDs)
2	Agriculture +	Rice, Maize, Pineaplle,	a. [.]	To conduct tranings and FLDs on
	Horticulture	Orange, Ginger, Chilli,		INM/IPM/IWM for Paddy, Maize,
		Sugarcane		Pineaplle, orange etc.
			b. [.]	To Conducts FLDs on hybrid variety
				of Paddy and Ginger
3	Livestock farming +	Pig, Poultry, Mithun,	a.	FLDs on proven technology to be
	Agriculture +	Cattle, Paddy, Maize,		conducted at farmers field
	Horticultutre	Orange, Pineapple,	b.	Exposure visit of the farmers
		Ginger, Chilli		
4	Silviculture + Agri +	Albizzia sp, Teak, orange,	a.	Training and demonstration
	Horti	Rice, Maize, Pineapple,		programme to conduct on
		Теа		preparation of squash, jam, jellies
				etc
			b.	Agro-forestry programme
			с.	Bench mark survey of plant
				resource of economic importance
5	Livestock farming +	Poultry, Cattle, Goat, Pigs,	a.	Motivational and awareness
	Fisheries +	Mithuns, Carp culture(programme to be conducted on
	Agriculture +	Catla, Rohu, Mrigal, Silver		scientific feeding and management
	Horticulture	Carp), Paddy, Maize,		of cattle, piggery, fisheries.
		Pineapple, Ginger etc	b.	Mass vaccination and deworming
				programme to be conducted for
				Livestock for FS areas
			с.	FLDs on stocking of fish fingerlings
			d.	Training and demonstration on
				technical know how on Paddy,
				Maize, Pineapple, Ginger.



6.2 Development Strategies for Assam

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1. Development Strategies for Barpeta

SI No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri-Horti-AH-Seri	Rice, Mustard, Potato,	Knowledge/skill upgradation,
		vegetables, Coconut,	attitude development, poor
		Arecanut, Eri, Som, Mulberry	communication, poor extension
			contact, improper & inadequate use
			of extension methods & aids,
			absence of networking & interest
			group formation, absence of IT
			support
2.	Agri-AH-Horti	Rice, Vegetables, Coconut,	-do-
		Arecanut , Banana	
3.	Agri-AH	Rice, Potato, Mustard	-do-
4.	Agri-AH-Fish	Rice, Jute, Pulse, Mustard,	-do-
		Wheat	
5.	Agri-Horti-Fish	Rice, Pulse, Mustard, Coconut,	-do-
		Arecanut	

1. Extension gaps for each farming system and crop

SI No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agri-Horti-AH-Seri	Rice, Mustard, Potato,	Awareness & motivation camp,
		vegetables, Coconut,	Training & demonstration, Exposure
		Arecanut, Eri, Som, Mulberry	visit, Group approach, Diagnostic
			visits, Field Days/Farmers' Fair, Film
			shows, Ensuring women's
			participation
2.	Agri-AH-Horti	Rice, Vegetables, Coconut,	-do-
		Arecanut , Banana	
3.	Agri-AH	Rice, Potato, Mustard	-do-
4.	Agri-AH-Fish	Rice, Jute, Pulse, Mustard,	-do-
		Wheat	
5.	Agri-Horti-Fish	Rice, Pulse, Mustard,	-do-
		Coconut, Arecanut	

J. L	Extension strategy for each farming system and crop				
SI No	Farming system	Crops under the FS	Extension strategy proposed		
1.	Agri-Horti-AH-Seri	Rice, Mustard, Potato,	Productivity enhancement, Group		
		vegetables, Coconut,	promotion, Agro-technique		
		Arecanut, Eri, Som, Mulberry	popularization, Result & method		
			demonstrations, HRD interventions,		
			Gender mainstreaming, ICT network		
			strengthening, Participatory		
			approaches, FSR/E		
2.	Agri-AH-Horti	Rice, Vegetables, Coconut,	-do-		
		Arecanut , Banana			
3.	Agri-AH	Rice, Potato, Mustard	-do-		
4.	Agri-AH-Fish	Rice, Jute, Pulse, Mustard,	-do-		
		Wheat			
5.	Agri-Horti-Fish	Rice, Pulse, Mustard,	-do-		
		Coconut, Arecanut			



SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agriculture- Animal	Rice, Vegetable, cow, buffalo,	Lack of Technical
	Husbandry-Fishery	sheep, goat, pig, poultry, fish	knowledge
2	Agriculture- Animal	Rice, Vegetable, cow, buffalo, ,	Poor sanitation & health
	Husbandry	sheep, goat, pig, poultry	urgent
3	Horticulture- Animal	Coconut, Arecanut, Banana,	Less no. of training and
	Husbandry	Pineapple, Orange, Jackfruit, cow,	demonstration
		buffalo, , sheep, goat, pig, poultry	Less no. of FLD and OFT
4	Animal Husbandry	cow, buffalo, , sheep, goat, pig,	Less no. of interaction of
		poultry	scientists & framers
5	Dairy	Milk	Partial adoption of
6	Fishery- agriculture	Fish, rice, vegetable, mustard	technologies
7	Horticulture	Coconut, Arecanut, Banana,	Non availability of inputs in
		Pineapple, Orange, Jackfruit	time
8	Horticulture- Animal	Coconut, Arecanut, Banana,	Non availability of sufficient
	Husbandry -	Pineapple, Orange, Jackfruit, cow,	AI centers.
	Sericulture	buffalo, sheep, goat, pig, poultry,	Communication problems.
		fish, Eri silk, muga	

1. Extension gaps for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities
			finalized
1	Agriculture- Animal	Rice, Vegetable, cow, buffalo, sheep,	Lack of technical
	Husbandry-Fishery	goat, pig, poultry, fish	knowledge.
2	Agriculture- Animal	Rice, Vegetable, cow, buffalo, sheep,	Non availability of
	Husbandry	goat, pig, poultry	inputs in time
3	Horticulture- Animal	Coconut, Arecanut, Banana, Pineapple,	Partial adoption of
	Husbandry	Orange, Jackfruit, cow, buffalo, , sheep,	technology
		goat, pig, poultry	Less no. of scientists
4	Animal Husbandry	cow, buffalo, , sheep, goat, pig, poultry	& farmers interaction
5	Dairy	Milk	Communication
6	Fishery- agriculture	Fish, rice, vegetable, mustard	problems
7	Horticulture	Coconut, Arecanut, Banana, Pineapple,	
		Orange, Jackfruit	
8	Horticulture- Animal	Coconut, Arecanut, Banana, Pineapple,	
	Husbandry -	Orange, Jackfruit, cow, buffalo, sheep,	
	Sericulture	goat, pig, poultry, fish, Eri silk, muga	

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1	Agriculture- Animal	Rice, Vegetable, cow, buffalo,	Awareness camp
	Husbandry-Fishery	sheep, goat, pig, poultry, fish	Trainings
2	Agriculture- Animal	Rice, Vegetable, cow, buffalo, ,	Demonstration
	Husbandry	sheep, goat, pig, poultry	Field day
3	Horticulture- Animal	Coconut, Arecanut, Banana,	Linkage with credit institutions
	Husbandry	Pineapple, Orange, Jackfruit,	Formation of farmers group
		cow, buffalo, , sheep, goat,	Establishment of agri clinic /Agri
		pig, poultry	service centre.
4	Animal Husbandry	cow, buffalo, , sheep, goat,	
		pig, poultry	
5	Dairy	Milk	
6	Fishery- agriculture	Fish, rice, vegetable, mustard	
7	Horticulture	Coconut, Arecanut, Banana,	
		Pineapple, Orange, Jackfruit	
8	Horticulture- Animal	Coconut, Arecanut, Banana,	
	Husbandry -	Pineapple, Orange, Jackfruit,	
	Sericulture	cow, buffalo, sheep, goat, pig,	
		poultry, fish, Eri silk, muga	



SI. No	Farming system	Crops under the FS	Extension gaps identified	
1		Paddy	Assured rice production in flood affected	
			areas instead of winter paddy	
2	Agriculture	Pulses	Low production	
3		Oilseeds	Low production	
4		Jute	Fluctuating prices of raw jute	
5	Horticulture	Summer/winter	Non utilization of potentiality for	
		vegetables	vegetables	
6	Animal Husbandry	Livestock	Poor productive and reproductive	
			efficiency	
7	Fishery	Fish	Low fish production	

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1		Paddy	Expansion of summer area in flood
			affected areas
2		Pulses	Expansion of pulse area under char and
	Agriculture		char like areas
3		Oilseeds	Expansion of pulse area under char and
			char like areas
4		Jute	Diversification of jute areas
5	Horticulture	Summer/winter	Area expansion under different fruit crops
		vegetables	
6	Animal Husbandry	Livestock/poultry	Genetic improvement of livestock and
			poultry, production of feed ingredient and
			cultivation of fodder
7	Fishery	Fish	Introduction of polyculture in village
			tanks, Intensification of integrated fish
			farming and centralized production of fish
			seed

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1		Paddy	Expansion of summer area in
			flood affected areas
2	Agriculture	Pulses	Expansion of pulse area under
			char and char like areas

3		Oilseeds	Expansion of pulse area under char and char like areas
4		Jute	Diversification of jute areas
5	Horticulture	Summer/winter vegetables	Area expansion under different fruit crops
6	Animal Husbandry	Livestock/poultry	Genetic improvement of livestock and poultry, production of feed ingredient and cultivation of fodder
7	Fishery	Fish	Introduction of polyculture in village tanks, Intensification of integrated fish farming and centralized production of fish seed

4. Development Strategies for Jorhat

SI.No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri-Horti-A.H - Fishery	Paddy, Rapeseed vegetables	1. Lack of knowledge and
		(rabi)	skill for pest and disease
			management and water
			management
			2. Line transplanting is
			perceived as time
			consuming, Labour
			intensive.
			3. Non availability of
			herbicide in small pack.
			4. Non availability of seed.
			5. Lack of credit facilities.
			6. Low sale price
			7. Less mechanization of
			farming
2.	Agri-Horti	Vegetable, rapeseed	1 Lack of knowledge about
			water management and
			pest and disease
			management.
			2. Non-availability of seed
			and other inputs in time.
			3. Low sale price
			4. Less mechanization of
			farming
3.	Agri-Horti –Fishery	Paddy, rapeseed	1. Lack of knowledge about
			water management and
			pest and disease
			management.
			2. Non availability of seed
			and other inputs in time
			3. Lack of knowledge about
			fertilizer application.
4.	Agri-Horti-A.H- Seri-Fishery	Paddy, vegetables	1. Lack of knowledge and
			skill for pest and disease
			management and water
			management

1. Extension gaps for each farming system and crop

			-	
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				intensive.
			3.	Non availability of
				herbicide in small pack.
			4.	Non availability of seed
				and improved breed
			5.	Lack of knowledge about
				feed management, health
				care management of
				livestock and birds.
			6.	Lack of irrigation facilities
			7.	Low sale price
			8.	Less mechanization of
				farming
5.	Agri-Horti-A.H- Seri	Paddy, vegetables	1.	Lack of knowledge and
				skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				intensive.
			3.	Non availability of
				herbicide in small pack.
			4.	Non availability of seed
				and improved breed
			5.	Lack of knowledge about
				feed management, health
				care management of
				livestock and birds.
			6.	Low sale price
				less mechanization of
				farming
6.	Agri-A.H- Seri	Paddy, vegetables	1.	Lack of knowledge and
				skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time

	consuming, Labour
	intensive.
	3. Non availability of
	herbicide in small pack.
	4. Non availability of seed
	and improved breed
	5. Lack of knowledge about
	feed management, health
	care management of
	livestock and birds.
	6. Low sale price
	7. less mechanization of
	farming

SI.No	Farming system	tem Crops under the FS		Extension priorities
Shirto	Partning System	crops under the 15		finalized
1.	Agri-Horti-A.H-Fishery	Paddy, Rapeseed vegetables	1.	Lack of knowledge and
		(rabi)		skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				intensive.
			3.	Non availability of
				herbicide in small pack.
			4.	Non availability of seed.
			5.	Lack of credit facilities.
2.	Agri-Horti	Vegetable, rapeseed	1	Lack of knowledge about
				water management and
				pest and disease
				management.
			2.	Non-availability of seed
				and other inputs in time.
3.	Agri-Horti –Fishery	Paddy, rapeseed	1.	Lack of knowledge about
				water management and
				pest and disease
				management.
			2.	Non availability of seed
				and other inputs in time

			3.	Lack of knowledge about
				fertilizer application.
4.	Agri-Horti-A.H- Seri-Fishery	Paddy, vegetables	1.	Lack of knowledge and
				skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				intensive.
			3.	Non availability of
				herbicide in small pack.
			4.	Non availability of seed
				and improved breed
			5.	Lack of knowledge about
				feed management, health
				care management of
				livestock and birds.
5.	Agri-Horti-A.H- Seri		1.	Lack of knowledge and
				skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				intensive.
			3.	Non availability of
				herbicide in small pack.
			4.	Non availability of seed
				and improved breed
			5.	Lack of knowledge about
				feed management, health
				care management of
				livestock and birds.
6.	Agri-A.H- Seri		1.	Lack of knowledge and
				skill for pest and disease
				management and water
				management
			2.	Line transplanting is
				perceived as time
				consuming, Labour
				5,

		intensive.
	3.	Non availability of
		herbicide in small pack.
	4.	Non availability of seed
		and improved breed
	5.	Lack of knowledge about
		feed management, health
		care management of
		livestock and birds.

SI.	Farming system	Crops under the FS	Extension strategy
No	Farming system	crops under the PS	proposed
1.	Agri-Horti-A.H-Fishery	Paddy, Rapeseed vegetables	Strategy :
		(rabi)	i. To improve the
			productivity of autumn
			paddy to 1.5 t/ha from
			0.9t/ha.
			ii. To improve the
			productivity of rapeseed
			to 1.3 t/ha from 0.9t/ha
			iii. Area expansionunder
			rapeseed and mustard to
			10374 ha from 9384 ha.
			Activities:
			Mobilization of
			FMC/SHG/CIG through
			capacity building by
			providing training for
			knowledge and skill
			upgrading,
			demonstration and
			organizing field days and
			exposure visit to -
			I. Cultivate high yielding
			varieties
			ii. Replace the old seed with
			new certified seed at
			every alternate year with
			his own multiply seeds

2.	Agri-Horti	Vegetable, rapeseed	 iii. Eradicate the weeds at appropriate time iv. Control of insects/pests at proper time v. Use the recommended dose of fertilizers at proper time through appropriate methods vi. Adopt corrective measures in acidic soils vii. Maintain optimum plant population
2.			 i. To improve the productivity of vegetables1.20 t/ha from 0.8t/ha ii. Expansion of are of potato to 3200ha from 3110 ha Activities : i. Training for knowledge and skill upgradation. ii. Demonstration and exposure visit to motivate farmers for adopting recommended packages iii. Formation and mobilization of CIG/SHG/FMC for production and marketing.
3.	Agri-Horti –Fishery	Paddy, rapeseed	To improve the productivity of autumn paddy to 1.5 t/ha from 0.9t/ha. ii. To improve the productivity of rapeseed to 1.3 t/ha from 0.9t/ha iii. Area expansionunder

	l	1	
			rapeseed and mustard to
			10374 ha from 9384 ha.
			Activities:
			Mobilization of
			FMC/SHG/CIG through
			capacity building by
			providing training for
			knowledge and skill
			upgrading,
			demonstration and
			organizing field days and
			exposure visit to –
			 Cultivate high yielding varieties
			ii. Replace the old seed with
			new certified seed at
			every alternate year with
			his own multiply seeds
			iii. Eradicate the weeds at
			appropriate time
			iv. Control of insects/pests at
			proper time
			v. Use the recommended
			dose of fertilizers at
			proper time through
			appropriate methods
			vi. Adopt corrective
			measures in acidic soils
			vii. Maintain optimum plant
			population
4.	Agri-Horti-A,H- Seri-	Paddy, vegetables	Strategy :
	Fishery		i. To improve the
			productivity of Sali paddy
			to 3.5 t/ha from 3.0/ha.
			ii. To improve the
			productivity of potato to
			1.3 t/ha from 0.8t/ha
			iii. Area expansion under
			potato and other

vegetables to 10374 ha
from 9384 ha.
Activities:
Mobilization of
FMC/SHG/CIG through
capacity building by
providing training for
knowledge and skill
upgrading,
demonstration and
organizing field days and
exposure visit to –
I. Cultivate high yielding
varieties
ii. Replace the old seed with
new certified seed at
every alternate year with
his own multiply seeds
iii. Eradicate the weeds at
appropriate time
iv. Control of insects/pests at
proper time
v. Use the recommended
dose of fertilizers at
proper time through
appropriate methods
vi. Maintain optimum plant
population

5. Development Strategies for Kamrup

SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri - Horti	Rice, rapeseed, pulses, fruits,	Inadequate training on
		vegetables, tuber crops	improved technologies and
			visit of extension functionaries
			to follow up the activities of
			farmers applicable to different
			enterprises of the farming
			system.
2	Agri – Horti – AH	Rice, rapeseed, pulses, fruits,	Inadequate training on
		vegetables, tuber crops and	improved technologies and
		АН	visit of extension functionaries
			to follow up the activities of
			farmers applicable to different
			enterprises of the farming
			system.
3	Agri – Horti – AH –	Rice, rapeseed, pulses, fruits,	Inadequate training on
	Fishery	vegetables, tuber crops, AH	improved technologies and
		and Fishery	visit of extension functionaries
			to follow up the activities of
			farmers applicable to different
			enterprises of the farming
			system.
4	Horti – AH – Fishery	Fruits, vegetables, tuber	Inadequate training on
		crops. AH and Fishery	improved technologies and
			visit of extension functionaries
			to follow up the activities of
			farmers applicable to different
			enterprises of the farming
			system.
5	Horti – Sericulture	Fruits, vegetables, tuber crops	Inadequate training on
		spices, flowers, plants for	improved technologies and
		sericulture	visit of extension functionaries
			to follow up the activities of
			farmers applicable to different
			enterprises of the farming
			system.

1. Extension gaps for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agri - Horti	Rice, rapeseed, pulses, fruits,	Frequent field visit by
		vegetables, tuber crops	extension functionaries and
			necessary follow up action.
			Knowledge up-gradation of
			extension functionaries
			applicable to all enterprises of
			farming system
2	Agri – Horti – AH	Rice, rapeseed, pulses, fruits,	Frequent field visit by
		vegetables, tuber crops and AH	extension functionaries and
			necessary follow up action.
			Knowledge up-gradation of
			extension functionaries
			applicable to all enterprises of
			farming system
3	Agri – Horti – AH –	Rice, rapeseed, pulses, fruits,	Frequent field visit by
	Fishery	vegetables, tuber crops, AH	extension functionaries and
		and Fishery	necessary follow up action.
			Knowledge up-gradation of
			extension functionaries
			applicable to all enterprises of
			farming system
4	Horti – AH – Fishery	Fruits, vegetables, tuber crops.	Frequent field visit by
		AH and Fishery	extension functionaries and
			necessary follow up action.
			Knowledge up-gradation of
			extension functionaries
			applicable to all enterprises of
			farming system
5	Horti – Sericulture	Fruits, vegetables, tuber crops	Frequent field visit by
		spices, flowers, plants for	extension functionaries and
		sericulture	necessary follow up action.
			Knowledge up-gradation of
			extension functionaries
			applicable to all enterprises of
			farming system

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1	Agri - Horti	Rice, rapeseed, pulses, fruits,	Joint field visit of scientists
1	Agri - Horu	vegetables, tuber crops	and extension personal from
		vegetables, tuber crops	
			concerned departments.
			Orientation programme for
			extension personal applicable
			to all enterprises in the
	A ' 11 I' A11		farming system
2	Agri – Horti – AH	Rice, rapeseed, pulses, fruits,	Joint field visit of scientists
		vegetables, tuber crops and AH	and extension personal from
			concerned departments.
			Orientation programme for
			extension personal applicable
			to all enterprises in the
			farming system
3	Agri – Horti – AH –	Rice, rapeseed, pulses, fruits,	Joint field visit of scientists
	Fishery	vegetables, tuber crops, AH	and extension personal from
		and Fishery	concerned departments.
			Orientation programme for
			extension personal applicable
			to all enterprises in the
			farming system
4	Horti – AH – Fishery	Fruits, vegetables, tube crops.	Joint field visit of scientists
		AH and Fishery	and extension personal from
			concerned departments.
			Orientation programme for
			extension personal applicable
			to all enterprises in the
			farming system
5	Horti – Sericulture	Fruits, vegetables, tuber crops	Joint field visit of scientists
		spices, flowers, plants for	and extension personal from
		sericulture	concerned departments.
			Orientation programme for
			extension personal applicable
			to all enterprises in the
			farming system

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6. Development Strategies for Karimganj

SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri. + Hort. +	Rice (<i>sali, ahu &</i> asra), sugarcane,	Lack of knowledge, awareness
	Fishery	vegetables, french bean (as pulse	and skill of the farmers regarding:
		crop), toria, betelvine	1. HYV rice varieties. 2. Quality
			planting materials of vegetables.
			3. Fish farming. 4. Integrated
			farming. 5. INM & IPM in rice and
			vegetables.
2.	Agri. + Hort. +	Rice (sali, ahu & asra), boro rice,	Lack of knowledge, awareness
	Animal Husbandry	pre flood summer vegetables, post	and skill of the farmers regarding:
		flood <i>rabi</i> vegetables, potato,	1. Suitable rice varieties for flood
		pulses (black gram, french bean),	affected areas. 2. Short duration
		rapeseed, amaranthas and lady's	rice verities. 3. Disease and pest
		finger	resistant varieties of rice and
			vegetables. 4. Diary farming. 5.
			INM & IPM in rice and vegetables.
3.	Agri. + Fishery	Boro rice, winter vegetables, asra	Lack of knowledge, awareness
		rice, toria	and skill of the farmers regarding:
			1. Boro rice varieties. 2. Fish
			farming. 3. INM & IPM in rice and
			vegetables.
4.	Agri. + Hort.	Coconut, arecanut, tea, fruit crops	Lack of knowledge, awareness
		(pineapple, banana, jackfruit,	and skill of the farmers regarding:
		litchi), vegetables (summer &	1. Production technology for
		winter), pulses, sugarcane, oilseed	plantation crops. 2. Scientific
		(toria), potato and spices	utilization of tillah land. 3.
			Arecanut/ coconut based HDMSCS
			model. 4. IPM & INM in plantation
			crops and vegetables.
5.	Agri. based	Fruit trees (myrobalans, jam, kul,	Lack of knowledge, awareness
		orange, lemon, jackfruit), spices	and skill of the farmers regarding:
		(turmeric, ginger & bay leaf),	1. Improved methods of mixed
		vegetables (gourds, sweet potato,	cropping. 2. Soil and water
		country bean), tea, rubber,	conservation measures.
		sugarcane, pineapple, betelvine	3. Scientific utilization of tillah
		and arecanut	land. 4. Arecanut/ coconut based
			HDMSCS model.

1. Extension gaps for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agri. + Hort. +	Rice (<i>sali</i> , <i>ahu</i> & asra),	Building awareness and skill of the
	Fishery	sugarcane, vegetables, french	farmers regarding: 1. HYV rice
	i loner y	bean (as pulse crop), toria,	varieties. 2. Quality planting
		betelvine	materials of vegetables. 3. INM &
			IPM in rice and vegetables.
2.	Agri. + Hort. +	Rice (sali, ahu & asra), boro rice,	Building awareness and skill of the
۷.	Animal Husbandry	pre flood summer vegetables,	farmers regarding: 1. Suitable rice
	Anna nasbanary	post flood <i>rabi</i> vegetables,	varieties for flood affected areas.
		potato, pulses (black gram,	2. Short duration rice verities. 3.
		french bean), rapeseed,	Diary farming. 4. INM & IPM in rice
		amaranthas and lady's finger	and vegetables.
3.	Agri. + Fishery	Boro rice, winter vegetables, asra	Building awareness and skill of the
5.	Agri. + Lishery	rice, toria	farmers regarding: 1. Boro rice
			varieties. 2. Fish farming.
4.	Agri. + Hort.	Coconut proconut too fruit	Building awareness and skill of the
4.	Agri. + Hort.	Coconut, arecanut, tea, fruit	-
		crops (pineapple, banana,	farmers regarding: 1. Production technology for plantation crops. 2.
		jackfruit, litchi), vegetables	Scientific utilization of tillah land.
		(summer & winter), pulses,	3. Arecanut/ coconut based
		sugarcane, oilseed (toria), potato	HDMSCS model.
F	Agri bacad	and spices	
5.	Agri. based	Fruit trees (myrobalans, jam, kul,	Building awareness and skill of the
		orange, lemon, jackfruit), spices	farmers regarding: 1. Improved
		(turmeric, ginger & bay leaf),	methods of mixed cropping. 2. Soil
		vegetables (gourds, sweet	and water conservation measures.
		potato, country bean), tea,	3. Scientific utilization of tillah
		rubber, sugarcane, pineapple,	land.
		betelvine and arecanut	

2. Extension priorities finalized for each farming system and crop

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	Agri. + Hort. +	Rice (sali, ahu & asra),	Training and demonstration on: 1.
	Fishery	sugarcane, vegetables, french	HYV rice varieties. 2. Quality
		bean (as pulse crop), toria,	planting materials of vegetables.
		betelvine	3. Fish farming. 4. Integrated
			farming. 5. INM & IPM in rice and
			vegetables.
2.	Agri. + Hort. +	Rice (sali, ahu & asra), boro rice,	Training and demonstration on: 1.
	Animal	pre flood summer vegetables,	Suitable rice varieties for flood
	Husbandry	post flood <i>rabi</i> vegetables,	affected areas. 2. Short duration

		potato, pulses (black gram,	rice verities. 3. Disease and pest
		french bean), rapeseed,	resistant varieties of rice and
		amaranthas and lady's finger	vegetables. 4. Diary farming. 5.
			INM & IPM in rice and vegetables.
3.	Agri. + Fishery	Boro rice, winter vegetables, asra	Training and demonstration on:
		rice, toria	1. Boro rice varieties. 2. Fish
			farming. 3. INM & IPM in rice and
			vegetables.
4.	Agri. + Hort.	Coconut, arecanut, tea, fruit	Training and demonstration on:
		crops (pineapple, banana,	1. Production technology for
		jackfruit, litchi), vegetables	plantation crops. 2. Scientific
		(summer & winter), pulses,	utilization of tillah land. 3.
		sugarcane, oilseed (toria), potato	Arecanut/ coconut based HDMSCS
		and spices	model. 4. IPM & INM in plantation
			crops and vegetables.
5.	Agri. based	Fruit trees (myrobalans, jam, kul,	Training and demonstration on:
		orange, lemon, jackfruit), spices	1. Improved methods of mixed
		(turmeric, ginger & bay leaf),	cropping. 2. Soil and water
		vegetables (gourds, sweet	conservation measures. 3.
		potato, country bean), tea,	Scientific utilization of tillah land.
		rubber, sugarcane, pineapple,	4. Arecanut/ coconut based
		betelvine and arecanut	HDMSCS model.



SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	FS-1	Paddy, rapessed & mustard,	Training not based on felt need
		maize, blackgram, nizer,	and CIGs
		sessamum etc	
2.	FS-2	Paddy, banana, Assam lemon	Lack of skill and market oriented
		Areacanut, betevine, vegetables	training
3.	FS-3	Paddy, vegetables (pumkin,	Poor effort for method
		pointed gourd, ridge gourd,	demonstration and exposure visit
		bottle gourd etc.)	
4.	FS-4	Paddy, banana, Assam lemon,	Lack of incentives to dedicated
		Areacanut, betelvine, vegetables	extension personnel
		etc.	
5.	FS-5	Paddy, vegetables (potato,	
		cabbage, brinjal, tomato,	
		cauliflower etc.)	

1. Extension gaps for each farming system and crop

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	FS-1	Paddy, rapessed & mustard,	Popularization and area expansion
		maize, blackgram, nizer,	of HYV varieties of paddy during
		sessamum etc	Boro season
2.	FS-2	Paddy, banana, Assam lemon	Assured supply of quality planting
		Areacanut, betevine, vegetables	material/ seed material
3.	FS-3	Paddy, vegetables (pumkin,	Rejuvenation of homestead
		pointed gourd, ridge gourd,	garden/orchard
		bottle gourd etc.)	
4.	FS-4	Paddy, banana, Assam lemon,	Proper organization and motivation
		Areacanut, betelvine, vegetables	of SHGs to make them sustainable
		etc.	in farming and allied activities
5.	FS-5	Paddy, vegetables (potato,	
		cabbage, brinjal, tomato,	
		cauliflower etc.)	

-	Extension strategy for each farming system and crop			
SI. No	Farming system	Crops under the FS	Extension strategy proposed	
1.	FS-1	Paddy, rapessed & mustard,	Motivating farmers/SHGs towards	
		maize, blackgram, nizer,	commercialization of	
		sessamum etc	Agriculture/horticulture/ fisheries/	
			livestock on cluster basis.	
2.	FS-2	Paddy, banana, Assam lemon	Conducting FLD and OFT for	
		Areacanut, betevine, vegetables	transferring technology	
3.	FS-3	Paddy, vegetables (pumkin,	Organizing training cum	
		pointed gourd, ridge gourd,	awareness programme on dairy,	
		bottle gourd etc.)	poultry and piggery farming	
4.	FS-4	Paddy, banana, Assam lemon,	Motivation for organic farming in	
		Areacanut, betelvine, vegetables	strategic crops like banana, pine	
		etc.	apple, ginger, turmeric	
5.	FS-5	Paddy, vegetables (potato,	Motivation for organic farming of	
		cabbage, brinjal, tomato,	export potential Joha rice (scented	
		cauliflower etc.)	rice) to capture distant market	

3. Extension strategy for each farming system and crop

8. Development Strategies for Nagaon

SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agriculture	Summer paddy, Jute, Pulses,	1. Lack of knowledge and
		Pulses, Rapeseed, Vegetables	awareness for adoption of HY
			varieties.
			2. Low and imbalance use of
			fertilizer.
			Lack of knowledge on adoption
			of INM, IPM & IDM practices
2	Agri Harti All	Cummer neddy Jute Duless	
Z	Agri-Horti-AH	Summer paddy, Jute, Pulses,	1. Lack of knowledge and
		Pulses, Rapeseed, Vegetables,	awareness for adoption of HY
		Cattle, Buffalo, Pig, Goat,	varieties.
		Sheep, Poultry, Fish	2. Low and imbalance use of
			fertilizer.
			3. Lack of knowledge on adoption
			of INM, IPM & IDM practices.
			4. Lack of knowledge regarding
			crossbreeding, Housing,
			vaccination and disease
			management.
3	Agri-Horti-AH	Summer paddy, Jute, Pulses,	1. Lack of knowledge and
	Fishery	Pulses, Rapeseed, Vegetables,	awareness for adoption of HY
		Cattle, Buffalo, Pig, Goat,	varieties.
		Sheep, Poultry, Fish	2. Low and imbalance use of
			fertilizer.
			3. Lack of knowledge on adoption
			of INM, IPM & IDM practices
			4. Lack of knowledge regarding
			crossbreeding, Housing,
			vaccination and disease
			management.
			5. Lack of knowledge of fish
			breeding, post harvest
			management, disease
			management and rearing
			practices.
4	Agri-AH- Fishery	Summer paddy, Jute, Pulses,	1. Lack of knowledge and
		Pulses, Rapeseed, Vegetables,	awareness for adoption of HY
		Cattle, Buffalo, Pig, Goat,	varieties.

1. Extension gaps for each farming system and crop

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			management and rearing practices.
8	Agri-Seri- Apiculture	Summer paddy, Jute, Pulses, Pulses, Rapeseed, Vegetables, Bee, Muga.	 Lack of knowledge and awareness for adoption of HY varieties. Low and imbalance use of fertilizer. Lack of knowledge on adoption of INM, IPM & IDM practices.

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agriculture	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables	of fertilizers, INM with
			micronutrients.
			Non adoption of HYV.
			IPM & IDM practices.
2	Agri-Horti-AH	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
		Cattle, Buffalo, Pig, Goat,	micronutrients.
		Sheep, Poultry	Non adoption of HYV.
			IPM & IDM practices.
			Crossbreeding of selected
			indigenous cattle with high yielding
			exotic cattle
3	Agri-Horti-AH	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
	Fishery	Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
		Cattle, Buffalo, Pig, Goat,	micronutrients.
		Sheep, Poultry, Fish	Non adoption of HYV.
			IPM & IDM practices.
			Crossbreeding of selected
			indigenous cattle with high yielding
			exotic animals.
			Scientific Fish Farming, quality fish
			seed production.
4	Agri-AH- Fishery	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables,	of fertilizers, INM with

		Cattle, Buffalo, Pig, Goat,	micronutrients.
		Sheep, Poultry, Fish	Non adoption of HYV.
			IPM & IDM practices.
5	Agri-Horti	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
			micronutrients.
			Non adoption of HYV.
			IPM & IDM practices.
			Crossbreeding of selected
			indigenous cattle with high yielding
			exotic animals.
			Scientific Fish Farming, quality fish
			seed production.
6	Agri-AH	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
		Cattle, Buffalo, Pig, Goat,	micronutrients.
		Sheep, Poultry	Non adoption of HYV.
			IPM & IDM practices.
			Crossbreeding of selected
			indigenous cattle with high yielding
			exotic animals.
7	Agri-Fishery	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
		Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
		Fish	micronutrients.
			Non adoption of HYV.
			IPM & IDM practices.
			Scientific Fish Farming, quality fish
			seed production.
8	Agri-Seri-	Summer paddy, Jute, Pulses,	Addressing low and imbalance use
	Apiculture	Pulses, Rapeseed, Vegetables,	of fertilizers, INM with
		Bee, Muga.	micronutrients.
			Non adoption of HYV.
			IPM & IDM practices.
			4. Scientific Bee keeping.

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1	Agriculture	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables	
2	Agri-Horti-AH	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables,	
		Cattle, Buffalo, Pig, Goat,	
		Sheep, Poultry, Fish	
3	Agri-Horti-AH	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
	Fishery	Pulses, Rapeseed, Vegetables,	
		Cattle, Buffalo, Pig, Goat,	
		Sheep, Poultry, Fish	
4	Agri-AH- Fishery	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables,	
		Cattle, Buffalo, Pig, Goat,	
		Sheep, Poultry, Fish	
5	Agri-Horti	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables,	
6	Agri-AH	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables,	
		Cattle, Buffalo, Pig, Goat,	
		Sheep, Poultry	
7	Agri-Fishery	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
		Pulses, Rapeseed, Vegetables,	
		Fish	
8	Agri-Seri-	Summer paddy, Jute, Pulses,	Training, Demonstration and OFT.
	Apiculture	Pulses, Rapeseed, Vegetables,	
		Bee, Muga.	

3. Extension strategy for each farming system and crop

9. Development Strategies for Nalbari

	Extension gaps for each farming system and crop			
SI. No	Farming system	Crops under the FS	Extension gaps identified	
1.	Agri-Hort-AH-Fishery	Rice, Toria, Pulses, Jute,	Low adoption of HYVs and	
		Sugarcane, Potato, Kharif and	improved breeds/species.	
		Rabi vegetables, Assam	Non adoption of scientific	
		lemon, Banana, Coconut,	management and production	
		Arecanut, Poultry & Duck-	practices with respect to crop	
		Indigenous, Improved, Cow-	and livestock enterprises.	
		indigenous, Cross breed, Local	Non availability/inadequate	
		buffalo, indigenous & exotic	availability of quality seeds/	
		fish	planting materials, pesticides,	
			medicines etc. on time.	
			Lack of knowledge and skills	
			amongst farmers for pursuing	
			scientific management/	
			production practices.	
			Poor extension support	
			and/or facilities from	
			concerned line departments.	
2.	Agri-Hort-AH	Rice, Toria, Pulses, Jute,	Low adoption of HYVs and	
		Sugarcane, Potato, Kharif and	improved breeds/species.	
		Rabi vegetables, Assam	Non adoption of scientific	
		lemon, Banana, Coconut,	management and production	
		Arecanut, Poultry & Duck-	practices with respect to crop	
		Indigenous, Improved, Cow-	and livestock enterprises.	
		indigenous, Cross breed, Local	Non availability/inadequate	
		buffalo	availability of quality seeds/	
			planting materials, pesticides,	
			medicines etc. on time.	
			Lack of knowledge and skills	
			amongst farmers for pursuing	
			scientific management/	
			production practices.	
			Poor extension support	
			and/or facilities from	
			concerned line departments.	
3.	Agri-Hort-Fishery	Rice, Toria, Pulses, Jute,	Low adoption of HYVs and	
		Kharif and Rabi vegetables,	improved breeds/species.	
		Assam lemon, Banana,		
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1. Extension gaps for each farming system and crop

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		Coconut, Arecanut,	•	Non adoption of scientific
		indigenous & exotic fish		management and production
				practices with respect to crop
				and livestock enterprises.
			•	Non availability/inadequate
				availability of quality seeds/
				planting materials, pesticides,
				medicines etc. on time.
			•	Lack of knowledge and skills
				amongst farmers for pursuing
				scientific management/
				production practices.
			•	Poor extension support and/
				or facilities from concerned
				line departments.
4.	Hort-AH	Kharif and Rabi vegetables,	•	Low adoption of HYVs and
		Assam lemon, Banana,		improved breeds/species.
		Coconut, Arecanut,	•	Non adoption of scientific
		indigenous & exotic fish		management and production
				practices with respect to crop
				and livestock enterprises.
			•	Non availability/inadequate
				availability of quality
				seeds/planting materials,
				pesticides, medicines etc. on
				time.
			•	Lack of knowledge and skills
				amongst farmers for pursuing
				scientific management/
				production practices.
				Deer extension support
			•	Poor extension support
			•	and/or facilities from
			•	

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agri-Hort-AH-Fishery	Rice, Toria, Pulses, Jute,	Increasing area coverage
		Sugarcane, Potato, Kharif and	under field crops.
		Rabi vegetables, Assam	 Increasing adoption of
		lemon, Banana, Coconut,	modern technologies.
		Arecanut, Poultry & Duck-	Promoting scientific resource

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		Indigenous, Improved, Cow-	management practices.
		indigenous, Cross breed, Local	Ensuring timely availability of
		buffalo, indigenous & exotic	quality inputs.
		fish	Increasing situation specific
			cropping intensity.
			Promoting farm
			mechanization.
			Capacity building of
			stakeholders.
			Undertaking entrepreneurship
			development initiatives.
			 Facilitating technical and
			financial institutional support.
			Gender mainstreaming.
2.	Agri-Hort-AH	Rice, Toria, Pulses, Jute,	Increasing area coverage
		Sugarcane, Potato, Kharif and	under field crops.
		Rabi vegetables, Assam	 Increasing adoption of
		lemon, Banana, Coconut,	modern technologies.
		Arecanut, Poultry & Duck-	Promoting scientific resource
		Indigenous, Improved, Cow-	management practices.
		indigenous, Cross breed, Local	Ensuring timely availability of
		buffalo	quality inputs.
			Increasing situation specific
			cropping intensity.
			Promoting farm
			mechanization.
			Capacity building of
			stakeholders.
			Undertaking entrepreneurship
			development initiatives.
			 Facilitating technical and
			financial institutional support.
			Gender mainstreaming
3.	Agri-Hort-Fishery	Rice, Toria, Pulses, Jute,	Increasing area coverage
		Kharif and Rabi vegetables,	under field crops.
		Assam lemon, Banana,	Increasing adoption of
		Coconut, Arecanut,	modern technologies.
		indigenous & exotic fish	Promoting scientific resource
			management practices.
			Ensuring timely availability of
			quality inputs.
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			Increasing situation specific
			cropping intensity.
			Promoting farm
			mechanization.
			Capacity building of
			stakeholders.
			Undertaking entrepreneurship
			development initiatives.
			 Facilitating technical and
			financial institutional support.
			Gender mainstreaming
4.	Hort-AH	Kharif and Rabi vegetables,	Increasing area coverage
		Assam lemon, Banana,	under field crops.
		Coconut, Arecanut,	Increasing adoption of
		indigenous & exotic fish	modern technologies.
			• Promoting scientific resource
			management practices.
			Ensuring timely availability of
			quality inputs.
			Increasing situation specific
			cropping intensity.
			Promoting farm
			mechanization.
			Capacity building of
			stakeholders.
			Undertaking entrepreneurship
			development initiatives.
			Facilitating technical and
			financial institutional support.
			Gender mainstreaming

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	Agri-Hort-AH-Fishery	Rice, Toria, Pulses, Jute,	Undertaking Frontline
		Sugarcane, Potato, Kharif	Demonstration Programme.
		and Rabi vegetables,	 Undertaking awareness and
		Assam lemon, Banana,	motivational campaigns.
		Coconut, Arecanut, Poultry	 Launching technology week
		& Duck-Indigenous,	programmes.
		Improved, Cow-	Implementing Entrepreneurship
		indigenous, Cross breed,	Development Programmes.

		Local buffalo, indigenous & exotic fish	 Undertaking need based and structured training programmes for farmers, rural youth, farm women and extension functionaries. Capacity building of farmer groups, SHGs and CBOs. Exposure visits for farmer groups and individuals. Organizing marketing awareness/training programmes. Organizing method demonstration programmes.
2.	Agri-Hort-AH	Rice, Toria, Pulses, Jute, Sugarcane, Potato, Kharif and Rabi vegetables, Assam lemon, Banana, Coconut, Arecanut, Poultry & Duck-Indigenous, Improved, Cow- indigenous, Cross breed, Local buffalo	 Undertaking Frontline Demonstration Programme. Undertaking awareness and motivational campaigns. Launching technology week programmes. Implementing Entrepreneurship Development Programmes. Undertaking need based and structured training programmes for farmers, rural youth, farm women and extension functionaries. Capacity building of farmer groups, SHGs and CBOs. Exposure visits for farmer groups and individuals. Organizing marketing awareness/training programmes. Organizing method demonstration programmes.
3.	Agri-Hort-Fishery	Rice, Toria, Pulses, Jute, Kharif and Rabi vegetables, Assam lemon, Banana, Coconut, Arecanut, indigenous & exotic fish	 Undertaking Frontline Demonstration Programme. Undertaking awareness and motivational campaigns. Launching technology week programmes. Implementing Entrepreneurship

				Development Programmes.
			•	Undertaking need based and
				structured training programmes
				for farmers, rural youth, farm
				women and extension
				functionaries.
			•	Capacity building of farmer
				groups, SHGs and CBOs.
			•	Exposure visits for farmer groups
				and individuals.
			•	Organizing marketing
				awareness/training programmes.
			•	Organizing method
				demonstration programmes.
4.	Hort-AH	Kharif and Rabi	•	Undertaking FLDs .
		vegetables, Assam lemon,	•	Undertaking awareness and
		Banana, Coconut,		motivational campaigns.
		Arecanut, indigenous &	•	Launching technology week
		exotic fish		programmes.
			•	Implementing Entrepreneurship
				Development Programmes.
			•	Undertaking need based and
				structured training programmes
				for farmers, rural youth, farm
				women and extension
				functionaries.
			•	Capacity building of farmer
				groups, SHGs and CBOs.
			•	Exposure visits for farmer groups
				and individuals.
			•	Organizing marketing
				awareness/training programmes.
			•	Organizing method
				demonstration programmes.



1. Extension gaps for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri-Horti-AH-Fishery	Given in Chapter - 4	1. Insufficient training programme
2.	Agri-Horti-AH	do	 Non availability of required inputs in time.
3.	Horti-Agri-Seri-AH	do	3. Credit linkages are not sound.

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	All FS	Given in Chapter - 4	Sufficient teaching programmes and
			credit linkage
2.	All FS	do	Sufficient teaching programmes and
			credit linkage

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	All FS	Given in Chapter - 4	Training, Linkages
2.	All FS	Do	Training, Linkages



SI. No.	Farming system	Crops under FS	Extension gaps identified
1.	Agri - Horti	Paddy, mustard, blackgram,	Lack of awareness in
		pea, potato etc.	disseminating the approved
		Vegetables, fruit and other	technologies
		crops	
2.	Agri – Horti - Fishery	Paddy, mustard, blackgram,	Lack of awareness in
		pea, potato etc.	disseminating the approved
		Vegetable, Citrus and other	technologies
		crops	
3.	Agri - Horti -Animal	Paddy, mustard, blackgram,	Lack of awareness in
	Husbandry	pea, potato etc.	disseminating the approved
		Vegetable, Citrus and other	technologies
		crops	
4.	Agri – Horti –	Paddy, mustard, blackgram,	Lack of awareness in
	Silviculture	pea, potato etc.	disseminating the approved
		Vegetable, Citrus and other	technologies
		crops	

1. Extension gap for each farming system and crop

2. Extension priorities finalized for each farming system and crop

SI. No.	Farming system	Crops under FS	Extension priorities finalized
1.	Agri - Horti	Paddy, mustard,	Demonstration & Trial
		blackgram, pea, potato	Trainings
		etc. Vegetables, fruit	
		and other crops	
2.	Agri – Horti - Fishery	Paddy, mustard,	Demonstration & Trial
		blackgram, pea, potato	Trainings
		etc. Vegetable, Citrus	
		and other crops	
3.	Agri - Horti -Animal	Paddy, mustard,	Demonstration & Trial
	Husbandry	blackgram, pea, potato	Trainings
		etc. Vegetable, Citrus	
		and other crops	
4.	Agri – Horti –	Paddy, mustard,	Demonstration & Trial
	Silviculture	blackgram, pea, potato	Trainings
		etc. Vegetable, Citrus	
		and other crops	

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		farming system and cro	-
SI. No.	Farming system	Crops under FS	Extension strategy proposed
1.	Agri - Horti	Paddy, mustard,	Teachings and awareness
		blackgram, pea, potato	campaigns for:
		etc.	Substitution of upland paddy with
		Vegetables, fruit and	oilseed and pulses.
		other crops	Expansion of area under specific
			varieties for producing processed
			rice products.
			Scope of expansion of area under
			off-season vegetables by
			substitution.
			Introduction of multistoried
			cropping system by using
			compatible varieties of crops.
			Scope of production of organic
			orange.
2.	Agri – Horti - Fishery	Paddy, mustard,	Do &
		blackgram, pea, potato	Promotion of composite fish farming
		etc.	in available water bodies.
		Vegetable, Citrus and	
		other crops	
3.	Agri - Horti -Animal	Paddy, mustard,	Do &
	Husbandry	blackgram, pea, potato	Breed up gradation in milch cows of
		etc.	local breed
		Vegetable, Citrus and	Practice of feeding quality
		Vegetable, Citrus and other crops	Practice of feeding quality concentrate feed to local milchcows
		Vegetable, Citrus and other crops	concentrate feed to local milchcows
			concentrate feed to local milchcows Encouraging of adoption of newly
4.	Agri – Horti –	other crops	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred.
4.	Agri – Horti – Silviculture	other crops Paddy, mustard,	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with
4.	Agri – Horti – Silviculture	other crops Paddy, mustard, blackgram, pea, potato	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses.
4.		other crops Paddy, mustard, blackgram, pea, potato etc.	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed
4.		other crops Paddy, mustard, blackgram, pea, potato etc.	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products.
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under off-season vegetables by
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under off-season vegetables by substitution.
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under off-season vegetables by substitution. Introduction of multistoried
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under off-season vegetables by substitution. Introduction of multistoried cropping system by using
4.		other crops Paddy, mustard, blackgram, pea, potato etc. Vegetable, Citrus and	concentrate feed to local milchcows Encouraging of adoption of newly introduced cross bred. Substitution of upland paddy with oilseed and pulses. Expansion of area under specific varieties for producing processed rice products. Scope of expansion of area under off-season vegetables by substitution. Introduction of multistoried

3. Extension strategy for each farming system and crop

	orange.
	Encouraging indoor rearing of Eri &
	Silk worm to prevent exposure to
	pollutants and insecticides.
	Encouraging plantation of Som,
	Kesheru and Mulberry trees for
	sericulture production.
	Encouraging collection of Cocoons
	from outside source and processing
	and production of Silk and Eri
	threads.

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6.3 Development Strategies for Manipur

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1. Development Strategies for Bishnupur

SI. No.	Farming system	Crops under the FS	Extension gaps identified
1	Agriculture based	Rice-	FLD, feedback mechanism, lack
	system	potato/mustard/pea/Blackgram	of farmers involvement in
		Rice - Soyabean	implementing programme, lack
		Maize + Soyabean	of linkages with line
			departments, training and
			programme on need based of the
			farmers.
2	Horticulture based	Banana+turmeric/ginger	FLD, feedback mechanism, lack
	system	Tree bean + turmeric/ginger	of farmers involvement in
		Guava + turmeric/ginger	implementing programme, lack
		Pineapple + Guava +	of linkages with line
		turmeric/ginger	departments, training and
			programme on need based of the
			farmers.
3	Agri-Hort.	Maize+banana	FLD, feedback mechanism, lack
		+alocasia	of farmers involvement in
		Rice+Rice bean	implementing programme, lack
		Sugarcane+Mustard	of linkages with line
		+Onion	departments, training and
		Tree bean+ginger/	programme on need based of the
		Turmeric+guava	farmers.
4	Agri + Horticulture	Maize+banana	FLD, feedback mechanism, lack
	+ Livestock	+alocasia+pig (Hampshire)	of farmers involvement in
			implementing programme, lack
			of linkages with line
			departments, training and
			programme on need based of the
			farmers.
5	Agri + Fishery	Rice+magur+IMC	FLD, feedback mechanism, lack
			of farmers involvement in
			implementing programme, lack
			of linkages with line
			departments, training and
			programme on need based of the
			farmers.

1. Extension gaps for each farming system and crop

2. LA	Extension priorities infanzed for each farming system and crop			
SI. No.	Farming system	Crops under the FS	Extension priorities finalized	
1	Agriculture based	Rice- potato /mustard /pea	Training, FLD and need based	
	system	/blackgram Rice-soyabean	programme	
		Maize+soyabean		
2	Horticulture based	Banana+turmeric/ginger	Training, FLD and need based	
	system	Tree bean + turmeric/ginger	programme	
		Guava + turmeric/ginger		
		Pineapple + Guava +		
		turmeric/ginger		
3	Agri-Hort.	Maize+banana + alocasia	Training, FLD and need based	
		Rice+Rice bean Sugarcane	programme	
		+Mustard + Onion Tree bean		
		+ginger/ Turmeric+guava		
4	Agri + Horticulture	Maize+banana	Training, FLD and need based	
	+ Livestock	+alocasia+pig (Hampshire)	programme	
5	Agri + Fishery	Rice+magur+IMC	Training, FLD and need based	
			programme	

2. Extension priorities finalized for each farming system and crop

3. Extension strategy for each farming system and crop

SI. No.	Farming system	Crops under the FS	Extension strategy
			proposed
1	Agriculture based	Rice-potato/mustard/pea/blackgram	FLD and training.
	system	Rice-soyabean	
		Maize+soyabean	
2	Horticulture based	Banana+turmeric/ginger	FLD and training.
	system	Tree bean + turmeric/ginger	
		Guava + turmeric/ginger	
		Pineapple + Guava + turmeric/ginger	
3	Agri-Hort.	Maize+banana +alocasia	FLD and training.
		Rice+Rice bean	
		Sugarcane+Mustard +Onion	
		Tree bean+ginger/	
		Turmeric+guava	
4	Agri + Horticulture	Maize+banana	FLD and training.
	+ Livestock	+alocasia+pig (Hampshire)	
5	Agri + Fishery	Rice+magur+IMC	FLD and training.

2. Development Strategies for Churachandpur

SI. No.	Farming system	Crops under the FS	Extension gaps identified
1	Agriculture based	Rice-	FLD, feedback mechanism, lack of
	system	potato/mustard/pea/blackgram	farmers involvement in
		Rice-soyabean	implementing programme, lack
		Maize + soyabean	of linkages with line departments,
			training and programme on need
			based of the farmers.
2	Horticulture based	Banana + turmeric/ginger	FLD, feedback mechanism, lack of
	system	Tree bean + turmeric/ginger	farmers involvement in
		Tomato + Mustard + Onion	implementing programme, lack
		Guava + turmeric/ginger +	of linkages with line departments,
		Рарауа	training and programme on need
		Pineapple + Guava +	based of the farmers.
		turmeric/ginger	
3	Agri + Hort.	Maize + banana	FLD, feedback mechanism, lack of
		+ Colocasia	farmers involvement in
		Rice + Rice bean	implementing programme, lack
		Sugarcane + Mustard	of linkages with line departments,
		+Onion	training and programme on need
		Tree bean + ginger/	based of the farmers.
		Turmeric + guava	
4	Agri + Horticulture	Maize + banana	FLD, feedback mechanism, lack of
	+ Livestock	+Colocasia + pig (Hampshire)	farmers involvement in
			implementing programme, lack
			of linkages with line departments,
			training and programme on need
			based of the farmers.
5	Agri + Fishery	Rice + magur	FLD, feedback mechanism, lack of
			farmers involvement in
			implementing programme, lack
			of linkages with line departments,
			training and programme on need
			based of the farmers.

1. Extension gaps for each farming system and crop

	Extension priorities manzed for each farming system and crop			
SI. No.	Farming system	Crops under the FS	Extension priorities	
			finalized	
1	Agriculture based	Rice-potato/ mustard/ pea/ blackgram	Training, FLD and need	
	system	Rice- soyabean Maize + soyabean	based programme	
2	Horticulture based	Banana + turmeric/ginger	Training, FLD and need	
	system	Tree bean + turmeric/ginger	based programme	
		Tomato + Mustard + Onion		
		Guava + turmeric/ginger + Papaya		
		Pineapple + Guava + turmeric/ ginger		
3	Agri + Hort.	Maize + banana + Colocasia	Training, FLD and need	
		Rice + Rice bean	based programme	
		Sugarcane + Mustard +Onion		
		Tree bean + ginger/		
		Turmeric + guava		
4	Agri + Horticulture	Maize + banana	Training, FLD and need	
	+ Livestock	+ Colocasia + pig (Hampshire)	based programme	
5	Agri + Fishery	Rice + magur	Training, FLD and need	
			based programme	

2. Extension priorities finalized for each farming system and crop

3. Extension strategy for each farming system and crop

SI. No.	Farming system	Crops under the FS	Extension
			strategy proposed
1	Agriculture based	Rice-potato/ mustard/ pea/ blackgram Rice -	FLD and training.
	system	soyabean	
		Maize + soyabean	
2	Horticulture based	Banana + turmeric/ginger	FLD and training.
	system	Tree bean + turmeric/ginger	
		Tomato + Mustard + Onion	
		Guava + turmeric/ginger+ Papaya	
		Pineapple + Guava + turmeric/ginger	
3	Agri + Hort.	Maize + banana + Colocasia	FLD and training.
		Rice + Rice bean Sugarcane + Mustard	
		+Onion Tree bean + ginger/ Turmeric + guava	
4	Agri + Horticulture	Maize + banana	FLD and training.
	+ Livestock	+ Colocasia + pig (Hampshire)	
5	Agri + Fishery	Rice + magur	FLD and training.



SI. No.	Farming system	Crops under the FS	Extension gaps
1	Agriculture	Paddy (both terrace &	Lack of knowledge about crop
		upland rice)	diversification.
2	Agriculture-Horticulture	Maize ,pulses, calocasia,	- do -
		tapioca etc.	
3	Livestock + Agriculture	Maize, bean, calocasia,	Traditional farming (non-adoption
		Piggery & poultry	of improved technique)
4	Agro-forestry	Forest tree species,	- do -
		Passion fruit, Cabbage	
		Potato, pea etc.	
5	Agri+Horti+Livestock	Maize, Passion fruit,	Lack of entrepreneurship
		Potato, piggery, cattle,	
		peach, plum etc.	

1. Extension gaps for each farming system and crop

2. Extension priorities finalized for each farming system and crop

SI. No.	Farming system	Crops under the FS	Extension priorities finalized
1	Agriculture	Paddy (both terrace &	Adoption of diversification of crop
		upland rice)	
2	Agriculture-Horticulture	Maize ,pulses, calocasia,	Adoption of suitable crops
		tapioca etc.	
3	Livestock + Agriculture	Maize, bean, colocasia,	Replacement of components of
		Piggery & poultry	farming system with suitable.
4	Agro-forestry	Forest tree species,	Better management practices
		Passion fruit, Cabbage	through skill promotion.
		Potato, pea etc.	
5	Agri+Horti+Livestock	Maize, Passion fruit,	Development of entrepreneurship
		Potato, piggery, cattle,	
		peach, plum etc.	

3. Extension strategy proposed for each farming system and cop

SI. No.	Farming system	Crops under the FS	Extension strategy proposed
1	Agriculture	Paddy (both terrace & upland rice)	Motivational training based on unfelt needs through group
			approach.
2	Agriculture-Horticulture	Maize ,pulses, calocasia,	Awareness campaign follow by
		tapioca etc.	training and demonstration.
3	Livestock + Agriculture	Maize, bean, colocasia,	- do -
		Piggery & poultry	

4	Agro-forestry	Forest tree species, Passion fruit, Cabbage Potato, pea etc.	Selection informal leaders as a resource for dissemination of improved agro-forestry techniques.
5	Agri+Horti+Livestock	Maize, Passion fruit, Potato, piggery, cattle, peach, plum etc.	Selection of technology for marginal farmers.

4. Development Strategies for Ukhrul .

1. Extension gaps for each farming system and crop

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SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri based system	Rice + bean/mustard	Lack of awareness of FS.
2.	Horti based system	Potato +bean/maize	-do-

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agri based system	Rice + bean/mustard	To develop suitable FS.
2.	Horti based system	Potato +bean/maize	-do-

Extension strategy for each farming system and crop 3.

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	Agri based system	Rice + bean/mustard	To include all components of FS like
			certified seeds/ animal/organic
			manure for more sustainable
2.	Horti based system	Potato +bean/maize	-do-

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6.4 Development Strategies for Meghalaya

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1. Development Strategies for Ri-Bhoi

SI. No	Farming system	Crops under	Extension gaps identified
51. NO	Failing system	the FS	Extension gaps identified
1.	There are three Agro ecological	Paddy, Maize,	1.Lack of awareness
	situations .They are AES I,AES	Betelnut,	2.Lack of finance
	II& AES III.Under AES I there	Pineapple,	3. Non availability of planting
	are two Existing farming system	Tomato and	materials
	viz,EFS I &EFS II. EFS I	ginger	4. Adoption gap
	Comprises of		5.Skill or knowledge gap
	Agri+Horti+A.H+Fishery ,EFS II		6.Poor linkage with mass media
	comprises of		7.Problem of marketing
	Agri+Horti+A.H+Fishery		8.Altitudinal gap
	In AES II, there are two existing		
	farming systems. They are EFS I-		
	Agri+Horti+AH+Sericulture,		
	EFS II- Horti+Agri+AH+Fishery		
	In AES III, there are two existing		
	farming systems. They are EFSI:-		
	Agri+Horti+AH+Bee keeping,		
	EFS II :		
	Horti+Agri+AH+Fishery		

1. Extension gaps for each farming system and crop

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2. Extension priorities finalized for each farming system and crop

Farming system	Crops under	Extension priorities finalized
There are three Agro ecological	Paddy, Maize,	1.To popularize the adoption of HYV of
situations .They are AES I,AES	Betelnut,	paddy
II& AES III.Under AES I there	Pineapple,Tom	2. To popularize the practice of raising
are two Existing farming system	ato and ginger	nursery bed for horticultural crops.
viz,EFS I &EFS II. EFS I		3. To impart knowledge on IPM
Comprises of		technology
Agri+Horti+A.H+Fishery ,EFS II		4. To develop proper linkage with
comprises of		mass media
Agri+Horti+A.H+Fishery		5.To assure proper planting material
In AES II, there are two existing		
arming systems.They are EFS		
	there are three Agro ecological ituations .They are AES I,AES I& AES III.Under AES I there re two Existing farming system iz,EFS I &EFS II. EFS I Comprises of Agri+Horti+A.H+Fishery ,EFS II omprises of Agri+Horti+A.H+Fishery n AES II,there are two existing	the FShere are three Agro ecologicalPaddy, Maize,ituations .They are AES I,AESBetelnut,I& AES III.Under AES I therePineapple,Tomre two Existing farming systemato and gingeriz,EFS I &EFS II. EFS IComprises ofcomprises ofgri+Horti+A.H+Fishery ,EFS IIomprises ofato and gingerugri+Horti+A.H+Fisheryato and ginger

	1	
I- Agri+Horti+AH+Sericulture,		
EFS II- Horti+Agri+AH+Fishery		
In AES III, there are two existing		
farming systems. They are		
EFSI:- Agri+Horti+AH+Bee		
keeping, EFS II :		
Horti+Agri+AH+Fishery		

3. Extension strategy for each farming system and crop

	Estima system	Crops under	Extension strategy proposed
SI. No	Farming system	the FS	Extension strategy proposed
1.	There are three Agro ecological	Paddy, Maize,	1.To do On Farm Trials/Demonstration
	situations .They are AES I, AES	Betelnut,	2.To encourage people to adopt new
	II& AES III.Under AES I there	Pineapple,Tom	varieties through demonstration
	are two Existing farming system	ato and ginger	3.To recommend planting materials
	viz,EFS I &EFS II. EFS I		which are specified
	Comprises of		4. To develop linkage with financial
	Agri+Horti+A.H+Fishery ,EFS II		institutions.
	comprises of		
	Agri+Horti+A.H+Fishery		
	In AES II, there are two existing		
	farming systems. They are EFS		
	I- Agri+Horti+AH+Sericulture,		
	EFS II- Horti+Agri+AH+Fishery		
	In AES III, there are two existing		
	farming systems. They are		
	EFSI:- Agri+Horti+AH+Bee		
	keeping, EFS II :		
	Horti+Agri+AH+Fishery		

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6.5 Development Strategies for Mizoram

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SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri -Horti	Rice, Maize, Pulses, Orange,	- Meeting with the farmers,
		Banana, Passion fruits,	coordination with the line
		Vegetables, Flowers	Department and RRCs.
			- Training and
			emonstration, advisory
			services, exposure visit
			etc.
2	Animal Husbandry –	Crossed Bred Cows, Croiler,	-do-
	Fisheries.	piggery, Indian major carp and	-
		exotic carp.	

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri - Horti	Rice, Maize, Pulses, Orange,	- To organize awareness /
		Banana, Passion fruits,	motivation generation
		Vegetables, Flowers	camp.
			- Training and
			demonstration
			- Farmers and scientist
			discussion.
			- To conduct exposure visit.
2	Animal Husbandry –	Crossed Bred Cows, Croiler,	-do-
	Fisheries	piggery, Indian major carp,	
		exotic carp.	

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Research gaps identified
1	Agri - Horti.	Rice, Maize, Pulses, Orange,	- To develop networking
		Banana, Passion fruits,	system.
		Vegetables, Flowers	- Coordination and
			cooperation with the
			research institute and
			developmental
			Department.

			 Training and extent ion programme. Playing the role as facilitator. Time to time feed back.
2	Animal Husbandy- Fishery	Crossed Bred Cows, Croiler, piggery, Indian major carp and exotic carp.	-do-

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SI.No.	Farming system.	Crops under the FS	Extension gaps identified.
1.	FS-1	Paddy,Ginger,Maize.	Inadequate farmers training,trail and demonstration.
2.	FS-2	Paddy, Maize, Banana, Orange, Chillies, Oil Palm.	-do-
3.	FS-3	Paddy, Maize, Arecanut, Hatkora, Oil Palm.	-do-
4.	FS-4	Paddy,Maize,Pineapple,Oilseeds,Pulses, Oil Palm.	-do-

2. Extension priorities finalized for each farming system and crop

SI.No.	Farming system.	Crops under the FS	Extension priorities finalized.
1.	FS-1	Paddy,Ginger,Maize.	Adequate training, trails and
			demonstration for farmers as well
			as extension staff.
2.	FS-2	Paddy, Maize, Banana, Orange, Chillies, Oil	-do-
		Palm.	
3.	FS-3	Paddy,Maize,Arecanut,Hatkora,Oil Palm.	-do-
4.	FS-4	Paddy, Maize, Pineapple, Oilseeds, Pulses, O	-do-
		il Palm.	

3. Extension strategy for each farming system and crop.

SI.No.	Farming	Crops under the FS	Extension Strategy Proposed.
	System		
1.	FS-1	Paddy,Ginger,Maize.	Conducting farmer as well as
			extension staff training, conducting
			OFT and FLD, field day, exposure
			visit.
2.	FS-2	Paddy,Maize,Banana,Orange,Chillies, Oil	-do-
		Palm.	
3.	FS-3	Paddy, Maize, Arecanut, Hatkora, Oil Palm.	-do-
4.	FS-4	Paddy,Maize,Pineapple,Oilseeds,Pulses,	-do-
		Oil Palm.	

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SI. No	Farming System	Crops under the FS	Extension gaps identified
1.	Agri – Horti	Rice, Cole crops and vegetables	Lack of awareness and adoption of improved practices
2.	Horticulture	Banana, Citrus, Ginger,	
		Turmeric, French bean,	-do-
		Cabbage, Chilli, etc.	
3.	Animal Husbandry	Fodder grasses	-do-

2. Extension priorities finalized for each farming system and crop

SI. No	Farming System	Crops under the FS	Extension priorities finalized
1.	Agri - Horti	Rice, Cole crops and vegetables	Farmers training
2.	Horticulture	Banana, Citrus, Ginger, Turmeric, French bean, Cabbage, Chilli, etc.	-do-
3.	Animal Husbandry	Fodder grasses	-do-

3. Extension Strategy for each farming system and crop

SI. No	Farming System	Crops under the FS	Extension strategy proposed
1.	Agri - Horti	Rice, Cole crops and	Farmers training, farmers fare,
		vegetables	field trips/farmers tour, field
			demonstration, awareness
			campaigns, trial plots, exposure
			visit, exhibitions, leaflets, farm
			and home visit, result
			demonstration.
2.	Horticulture	Banana, hatkora, khasi	
		mandarin, cabbage,	-do-
		Ginger, turmeric, tomato,	-00-
		etc.	
3.	Animal Husbandry	Fodder grasses	-do-

REPARENCES



SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agriculture based	Paddy, vegetables	Unavailability of water &
			Agricultural inputs
2.	Agriculture+ Fishery	Paddy, Maize, Fish Culture	Lack of technical knowledge
			Inadequate supply of feed
3.	Agriculture+ AH	Paddy, Maize, Poultry, Piggery	Inadequate supply of feeds,
			Unavailability of water
4.	Agriculture+	Paddy, Maize, Orange, Lemon	Unavailability of water & Agril
	Horticulture		inputs

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agriculture based	Paddy, vegetables	Training on water management,
			Water harvesting methods.
2.	Agriculture+ Fishery	Paddy, Maize, Fish Culture	Training on Integrated farming,
			production of fish feed
3.	Agriculture+ AH	Paddy, Maize, Poultry, Piggery	Training on Water management,
			production of livestock feed &
			fodder
4.	Agriculture +	Paddy, Maize, Orange, Lemon	Training on water management,
	Horticulture		plant propagation techniques

3. Extension strategy for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	Agriculture based	Paddy, vegetables	Training on Resource
			Conservation Technologies,
			Integrated farming, Trials &
			Demonstrations
2.	Agriculture+ Fishery	Paddy, Maize, Fish Culture	Awareness campaign, exposure
			visit
3.	Agriculture + AH	Paddy, Maize, Poultry, Piggery	Field demonstration, farmers fare
4.	Agriculture+	Paddy, Maize, Orange, Lemon	Training on management of
	Horticulture		young plants/orchards,field visits
			,exhibitions

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SI. No	Farming System	Crops under the FS	Extension gaps identified	
1.	Agri - Fishery	Fish crops:		
		Catla, Rohu, Mrigal, Grass		
		carp, Silver carp, Common	Lack of adoption of improved	
		carp	practices	
		Agricultural crop:		
		Paddy		
2.	Agri - Horti	Rice, cole crops and		
		vegetables	-do-	
3.	Horticulture	Banana, hatkora, khasi		
		mandarin, Ginger,	-do-	
		turmeric, oil palm, tomato,	-40-	
		cabbage etc.		
4.	Animal Husbandry	Fodder grasses	-do-	

2. Extension priorities finalized for each farming system and crop

SI. No	Farming System	Crops under the FS	Extension priorities finalized	
1.	Agri - Fishery	Fish crops:		
		Catla, Rohu, Mrigal, Grass		
		carp, Silver carp, Common		
		carp	Farmers training	
		Agricultural crop:		
		Paddy		
2.	Agri - Horti	Rice, cole crops and		
		vegetables	-do-	
3.	Horticulture	Banana, hatkora, khasi		
		mandarin, Ginger,	-do-	
		turmeric, oil palm,	-40-	
		tomato, cabbage etc.		
4.	Animal Husbandry	Fodder grasses	-do-	

SI. No	Farming System	Crops under the FS	Extension strategy proposed		
1.	Agri - Fishery	Fish crops:	Farmers training, field		
		Catla, Rohu, Mrigal, Grass	demonstration, awareness		
		carp, Silver carp, Common	campaigns, trial plots, field		
		carp	trips/farmers tour, exposure visit,		
		Agricultural crop:	exhibitions, farmers fare, leaflets,		
		Paddy	farm and home visit, result		
			demonstration.		
2.	Agri – Horti	Rice, cole crops and			
		vegetables	-do-		
3.	Horticulture	Banana, hatkora, khasi			
		mandarin, Ginger,	-do-		
		turmeric, oil palm, tomato,	-40-		
		cabbage etc.			
4.	Animal Husbandry	Fodder grasses	-do-		

3.	Extension	Strategy fo	r each farming	system and crop
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SI. No	Farming System	Crops under the FS	Extension gaps identified
1.	Agri – Horti	Rice, cabbage, ginger, Cole crops and vegetables	Lack of awareness of improved practices and varieties
2.	Horticulture	Banana, Orange, citrus, Mandarin orange, etc.	-do-
3.	Animal Husbandry	Fodder grasses	-do-

2. Extension priorities finalized for each farming system and crop

SI. No	Farming System	Crops under the FS	Extension priorities finalized
1.	Agri – Horti	Rice, cabbage, ginger, Cole	
		crops and vegetables	Farmers training
2.	Horticulture	Banana, Orange, citrus,	
		Mandarin orange, etc.	-do-
3.	Animal Husbandry	Fodder grasses	-do-

3. Extension Strategy for each farming system and crop

SI. No	Farming System	Crops under the FS	Extension strategy proposed
	Agri – Horti	Rice, cabbage, ginger, Cole	
1.		crops and vegetables	Farmers training, Awareness Campaign, Field trips / Farmers Tour, field demonstration, exhibitions, farm and home visit.
2.	Horticulture	Banana, Orange, citrus, Mandarin orange, etc.	-do-
		Handarin orange, etc.	-40-
3.	Animal Husbandry	Fodder grasses	-do-

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7. Development Strategies for Serchhip -

SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agriculture:	Rice, Maize, Sugarcane,	Poor adoption of High Yielding
	(W.R.C & Jhuming)	Soybean, Rapeseed and	Varieties,
		Mustard	Lack of proper irrigation facilities.
			Lack of awareness regarding IPM
			No proper Soil and water
			Conservation Practices.
2.	Horticulture	Citrus (Orange), Banana,	Lack of knowledge for Value addition
		Passion fruit, Cabbage,	for higher income,
		Potato, French Bean, Bird's	Lack of knowledge regarding IPM &
		Eye Chilies, Ginger, Turmeric	INM,
			Lack of Water harvesting structures,
			Lack of disease resistant or tolerant &
			high yielding varieties.
3.	Animal Husbandry	Pig: Local, Hamshire cross,	Poor Scientific management and
		Large white yorkshire cross	disease control techniques,
		Poultry: Local, Vencob,	Insufficient Fodder production, Lack
		Hubberd	of Quality breeds.
		Cattle: Local, HF & Jersey	
		cross	
4.	Fishery	Common Carp, Silver Carp,	Poor knowledge on value addition for
		Grass carp, Magur	higher income, Lack of quality seeds,
			Unavailability of timely seed supply,
			lack of knowledge on use of
			production enhancing inputs like
			manures and supplementary feeds.
5.	Sericulture	Muga & Eri silk	Lack of High Yielding Variety Seeds.
			Lack of proper irrigation facilities.
			Pest and disease management.
			No proper Soil and water
			Conservation Practices.

1. Extension gaps for each farming system and crop

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SI. No	Farming system	Crops under the FS	Extension priorities finalized
1.	Agriculture:		
	W.R.C	Rice	Proper irrigation facilities,
			Pest and disease management,
			Soil and water Conservation Practices
			in Jhum,
	Jhuming	Rice, Maize, Sugarcane,	High Yielding Variety.
		Soybean, Rapeseed and	
		Mustard	
2.	Horticulture	Citrus (Orange), Banana,	IPM & INM,
		Passion fruit, Cabbage,	Disease resistant or tolerant & high
		Potato, French Bean, Bird's	yielding varieties,
		Eye Chilies, Ginger, Turmeric	Water harvesting structures,
			Post harvest management and value
			addition for higher income.
3.	Animal Husbandry	Pig: Local, Hamshire cross,	Increase Fodder production,
		Large white yorkshire cross	Scientific management and disease
		Poultry: Local, Vencob,	control, Quality breeds.
		Hubberd	
		Cattle: Local, HF & Jersey	
		cross	
4.	Fishery	Common Carp, Silver Carp,	Knowledge on use of production
		Grass carp, Magur	enhancing inputs like manures and
			supplementary feeds,
			Unavailability of timely supply of
			quality seeds,
			Poor knowledge on value addition for
			higher income.
5.	Sericulture	Muga & Eri silk	Introduction of improved variety of
			mulberry & scientific management
			techniques,
			To create linkage with important silk
			industries.

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension strategies proposed
1.	Agriculture:	Rice	Training on Pest and disease
	W.R.C		management incorporating biological &
			locally available plant extracts,
			Identification and Introduction of
		Rice, Maize, Sugarcane,	tolerant/resistant crop varieties,
	Jhuming	Soybean, Rapeseed and	Development Soil and water
		Mustard	Conservation Practices in Jhum,
			Introduction of High Yielding Variety.
2.	Horticulture	Citrus (Orange), Banana,	IPM & INM,
		Passion fruit, Cabbage,	Identification and Introduction of
		Potato, French Bean, Bird's	tolerant/resistant/high yielding crop
		Eye Chilies, Ginger, Turmeric	varieties,
			Water harvesting structures,
			Identification & development of
			traditional methods of preparations
			and preservation for value addition
			and higher income.
3.	Animal Husbandry	Pig: Local, Hamshire cross,	Identification and development of
		Large white yorkshire cross	locally available fodder and herbs,
		Poultry: Local, Vencob,	Scientific management and disease
		Hubberd	control, Implementation of cross
		Cattle: Local, HF & Jersey	breeding programmes for upgradation
		cross	of local breeds.
4.	Fishery	Common Carp, Silver Carp,	Enhancement of inputs like manures
4.	Fishery		Enhancement of inputs like manures and supplementary feeds,
4.	Fishery	Common Carp, Silver Carp,	Enhancement of inputs like manures
4.	Fishery	Common Carp, Silver Carp,	Enhancement of inputs like manures and supplementary feeds,
4.	Fishery	Common Carp, Silver Carp,	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding
4.	Fishery	Common Carp, Silver Carp,	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in
4.		Common Carp, Silver Carp, Grass carp, Magur	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in seed supply, Research on value addition for higher income.
4.	Fishery Sericulture	Common Carp, Silver Carp,	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in seed supply, Research on value addition for higher income. Introduction of improved variety of
		Common Carp, Silver Carp, Grass carp, Magur	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in seed supply, Research on value addition for higher income.
		Common Carp, Silver Carp, Grass carp, Magur	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in seed supply, Research on value addition for higher income. Introduction of improved variety of mulberry & scientific management techniques,
		Common Carp, Silver Carp, Grass carp, Magur	Enhancement of inputs like manures and supplementary feeds, Implementation of breeding programmes for self sufficiency in seed supply, Research on value addition for higher income. Introduction of improved variety of mulberry & scientific management

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6.6 Development Strategies for Nagaland

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SI. No.	Farming system	Crops under the FS		Extension gaps identified
1.	Agri – Horti – AH	Paddy, Maize, ginger,	a)	Lack of awareness about ongoing
	- Fishery	Banana, Pineapple,		schemes run by government
		Animal Husbandry,	b)	Lack of marketing infrastructures and
		Fisheries		linkages
			c)	Complicated procedures of bank loans
			d)	Poor Agri-link road conditions
2.	Agri – Horti – AH	Paddy, Maize, Mustard,	a)	Lack of awareness about ongoing
	– Fishery -	Banana, Pineapple,		schemes by government
	Sericulture	Vegetables, Animal	b)	Lack of marketing infrastructures and
		Husbandry, Fisheries,		linkages
		Sericulture	c)	Complicated procedures of bank loans
			d)	Poor Agri-link road conditions

1. Extension gaps for each farming system and crop

2. Extension priorities finalized for each farming system and crop

SI. No.	Farming system	Crops under the FS		Extension priorities finalized
1.	Agri – Horti – AH	Paddy, Maize, ginger,	a)	Awareness about ongoing schemes
	- Fishery	Banana, Pineapple,		run by government
		Animal Husbandry,	b)	Facilitator between farmers and
		Fisheries, Sericulture		marketing bodies
2.	Agri – Horti – AH	Paddy, Maize, Mustard,	a)	Awareness about ongoing schemes
	– Fishery -	Banana, Pineapple,		run by government
	Sericulture	Vegetables, Animal	b)	Facilitator between farmers and
		Husbandry, Fisheries,		marketing bodies
		Sericulture		

3. Extension strategy for each farming system and crop

SI. No.	Farming system	Crops under the FS		Extension strategy proposed
1.	Agri – Horti – AH	Paddy, Maize, ginger,	a)	Creating awareness through
	- Fishery	Banana, Pineapple,		awareness camps
		Vegetables, Animal	b)	Trainings
		Husbandry, Fisheries,	c)	Demonstrations
		Sericulture	d)	Linkage with marketing agents and
				banks for credit financing

2.	Agri – Horti –	Paddy, Maize, Mustard,	a) Creating awareness through awareness
	AH – Fishery	Banana, Pineapple,	camps
	- Sericulture	Vegetables, Animal	b) Trainings
		Husbandry, Fisheries,	c) Demonstrations
		Sericulture	d) Linkage with marketing agents and banks
			for credit financing

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SI. No	Farming system	Crops under the FS	Extension gaps identified		
AES-I	a) EFS-1 Agri +	Paddy (TRC), Rainfed Potato	Research cum extension		
	Animal Husbandry	Piggery, Cow	Financial constraints		
	b)EFS-2 Agri +	Paddy (TRC), Rainfed Potato,	Research cum extension		
	Horticulture	passion fruits, Garlic			
	c)EFS-3	Paddy (TRC),Potato	Research cum extension		
	Agri+Anil.Hus+Fishery	Cow,Pig,	Financial constraints		
		Fishery	Research gap		
	d) EFS-4 Agri +	Paddy &	Quality seed		
	Others	Stone quarry			
AES-II	a)EFS-1 Agri + Animal	Paddy (Jhum)	Preference of local varieties/		
	Husbandry	Collocassia+ chilly+Maize	lack of proper knowledge		
		Piggery	Lack of mandays/financial		
			constraints		
			lack of proper knowledge		
	b) EFS-2 Hort +	Passion fruits	lack of proper knowledge		
	Apiculture	Orange,Bee keeping/Box	lack of technical knowledge		
	c) EFS-3 Agri+Fishery	Paddy (TRC)	Preference of local varieties		
		Fishery	Shortage of water/ lack of		
			proper knowledge		

1. Extension gaps for each farming system and crop

2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities
31. NO	ranning system	crops under the 15	finalized
AES-I	a) EFS-1 Agri +	Paddy (TRC), Rainfed Potato	HYV varieties for altitude
	Animal Husbandry	Piggery, Cow	above 1000MSL
	b)EFS-2 Agri +	Paddy (TRC), Rainfed Potato,	HYV suitable for rainfed
	Horticulture	passion fruits, Garlic	conditions
			Purity seeds selection
	c)EFS-3 Agri +	Paddy (TRC),Potato	Segregation of varieties in use.
	Anil.Hus + Fishery	Cow,Pig,	Diseases on Potato tubers.
		Fishery	Proper management of fishery
	d) EFS-4 Agri +	Paddy &	ponds
	Others	Stone quarry	Value addition of horticultural
			crops.
			Control of epidemic in Pigs
			through research finding and
			consultations.

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	b)EFS-2 Agri +	Paddy (TRC), Rainfed Potato,	
	Horticulture	passion fruits, Garlic	
	c)EFS-3	Paddy (TRC),Potato	
	Agri+Anil.Hus+Fishery	Cow,Pig,	
		Fishery	
	d) EFS-4 Agri +	Paddy &	
	Others	Stone quarry	
AES-II	a)EFS-1 Agri + Animal	Paddy (Jhum)	HYV suitable for Jhum/short or
	Husbandry	Collocassia+ chilly+Maize	medium duration variety for
		Piggery	reinfed conditions
	b) EFS-2 Hort +	Passion fruits	Promotion of IPM methods.
	Apiculture	Orange,Bee keeping/Box	Post harvest value additions.
	c) EFS-3 Agri+Fishery	Paddy (TRC)	Market linkages.
		Fishery	

SI. No	Farming system	Crops under the FS	Extension strategy
SI. NO	Farming system	crops under the FS	proposed
AES-I	a) EFS-1 Agri +	Paddy (TRC), Rainfed Potato	Introduction of HYV
	Animal Husbandry	Piggery, Cow	Introduction of exotic breed
	b)EFS-2 Agri +	Paddy (TRC),	Introduction of HYV
	Horticulture	Rainfed Potato,	Intensification
		passion fruits,	Intensification & trailing
		Garlic	system with GI wire.
			Intensification of farming
			system
-	c)EFS-3	Paddy (TRC),	Introduction of HYV
	Agri+Anil.Hus+Fishery	Potato,Cow,Pig,	Intensification
		Fishery	Provides quality seeds
	d) EFS-4 Agri +	Paddy	Introduction of HYV
	Others	Stone quarry	Extension and diversification
			from local tools to mechanized
			one
AES-II	a)EFS-1 Agri + Animal	Paddy (Jhum) Collocassia+	Both local and HYV/Training
	Husbandry	chilly+Maize &	and exposure trips, timely
		Piggery	cultural operation to be done
			Extension help from
			department

b) EFS-2 Hort &	Passion fruits	Timely cultural operation to be
Apiculture	Orange	done
	Bee keeping/Box	Extension help from
		department/ Training and
		exposure trips
		Extension help from
		department
c) EFS-3 Agri+Fishery	Paddy (TRC)	Both local and HYV, Training
	Fishery	and exposure trips
		Proper construction of drainage
		and extension help from
		department

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3. Development Strategies for Mokokchung

SI. No	Farming system	Crops under the FS	Extension gaps identified
1.	Agri + Horti	Paddy, Tapioca,	Lack of awareness, Non adoption of
		Maize, Passion fruit,	recommended practices, lack of skill in post
		Ginger, Orange,	harvest technology, Practice of monoculture,
		Banana	limited farming literature and media coverage
2.	Agri + AH	Paddy, Tapioca,	Lack of awareness, Non adoption of
		Maize, Local cross	recommended practices, lack of skill in post
		bred	harvest technology, Practice of monoculture,
			limited farming literature and media coverage,
			inadequate animal health care centre
3.	Agri+ Fishery	Paddy, Tapioca,	Lack of awareness, lack of training and
		Maize, IMC & exotic	demonstration, Non adoption of recommended
		carp	practices, inadequate availability of fingerlings
4.	Agri + Horti + AH	Paddy, Tapioca,	Lack of awareness, lack of training and
	+ Fishery	Maize, Passion fruit,	demonstration, Non adoption of recommended
		Ginger, Orange,	practices, inadequate availability of fingerlings,
		Banana, Local cross	lack of skill
		bred, IMC & exotic	
		carp, indigenous	
		MAP, silkworm	

1. Extension gaps for each farming system and crop

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
		-	
1.	Agri + Horti	Paddy, Tapioca,	Training and demonstration on improved
		Maize, Passion fruit,	farming system (Paddy, Tapioca, Passion fruit,
		Ginger, Orange,	banana), training on post harvest technology,
		Banana	exposure trips
2.	Agri + AH	Paddy, Tapioca,	Training and demonstration on improved
		Maize, Local cross	farming system (Paddy, Tapioca), awareness
		bred	through conducting animal health camps
3.	Agri+ Fishery	Paddy, Tapioca,	Training and demonstration on improved
		Maize, IMC & exotic	farming system (Paddy, Tapioca), training and
		carp	demonstration on breeding and hatchery
4.	Agri + Horti + AH	Paddy, Tapioca,	Training and demonstration, awareness
	+ Fishery	Maize, Passion fruit,	programme, farmers cross visits and exposure
		Ginger, Orange,	trips
		Banana,	

Local cross bred,	
IMC & exotic carp,	
indigenous MAP,	
silkworm	

SI. No	Farming system	Crops under the FS	Extension strategy proposed
1.	Agri + Horti	Paddy, Tapioca,	Training on improved farming system on
		Maize, Passion fruit,	paddy, tapioca, passion fruit and banana.
		Ginger, Orange,	Demonstration on value addition products on
		Banana	tapioca, banana.
			Training on post harvest technology
			Organizing exposure trips with a theme
			'Seeing is believing'
2.	Agri + AH	Paddy, Tapioca,	Training and demonstration on improved
		Maize, Local cross	farming system (Paddy, Tapioca, maize)
		bred	Conducting awareness programme through
			animal health camps
			Training and demonstration on formulation of
			locally available fodder
			Demonstration on AI
			Organizing exposure trips
3.	Agri+ Fishery	Paddy, Tapioca,	Training and demonstration on improved
		Maize, IMC & exotic	farming system (Paddy, Tapioca, maize)
		carp	Training and demonstration on fish cum paddy
			cultivation
			Training and demonstration on composite fish
			culture, breeding and hatchery
			Organizing farmers exchange tour
4.	Agri + Horti + AH	Paddy, Tapioca,	Training and demonstration on improved
	+ Fishery	Maize, Passion fruit,	farming system
		Ginger, Orange,	Training and demonstration on MAP, silkworm
		Banana, Local cross	culture
		bred, IMC & exotic	Conducting awareness programmes.
		carp, indigenous	Conducting farmers cross visit and exposure
		MAP, silkworm	trips

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4. Development Strategies for Phek .

SI.No	Farming system	Crops under the FS	Extension gaps identified
1	Agri – Horti – AH	Paddy, Maize	Lack of knowledge on scientific production
	– Fishery	Beans, Pea, Cowpea,	technology for TRC
	Zabo system	Arahar, Nagadal,	Lack of knowledge on scientific production
		Cabbage Banana,	technology for cereals and pulses
		Pear, Peach, Plum,	Lack of knowledge on nursery raising technique
		Garlic, Potato,	for vegetables
		Buffalo, Cattle and	Lack of knowledge on improved production
		Fish	technology for banana, passion fruit,
			Lack of knowledge IPM
			Lack of knowledge on composite fish farming.
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
2	Agri – Silvi – Horti	Forest trees like Ficus	Lack of knowledge on multistoried cropping
	– Pastural	spp, Bauhinia spp.,	system
		Legistroma. Fodder	Lack of knowledge on high yielding varieties of
		grasses like Broom	fodder crops,
		grass, Napier etc.	Lack of knowledge on production technology on
		Maize, Millets,	banana and mandarin
		Banana, Pear, Peach,	Lack of knowledge on rejuvenation of declining
		Plum,	mandarin orchards
		Mithun, Cattle	Lack of knowledge on on health coverage
			livestocks.
			Lack of knowledge on nursery raising technique
			for vegetables
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
3	Agri - Horti	Maize, Millets,	Lack of knowledge on scientific production
		Jobstears, Beans,	technology on Maize.
		Cowpea, Pea, Garlic,	Lack of knowledge IPM technology
		Potato Banana, Pear,	Lack of knowledge on agro techniques for Tea
		Peach, Plum,	cultivation on temperate hills.
		Mandarin, Papaya,	Lack of knowledge on layout and orchard
		Large cardamom Tea,	management.
			Lack of knowledge on training and pruning in
			fruits trees.
			Lack of knowledge on nursery raising technique
			for vegetables
			Lack of knowledge on INM and IWM

Extension gaps for each farming system and crop 1.

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			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
4	Agri - Horti	Jhoom Paddy, Maize,	Lack of knowledge IPM technology
	Jhum	Banana, Papaya,	Lack of knowledge on high yielding varieties of
		Beans, Cowpea, Pea,	рарауа.
		Garlic, Potato,	Lack of knowledge on high quality banana
		Cabbage	varieties.
			Lack of knowledge on soil erosion and nutrient
			leaching
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
5	Agri – Horti -	Paddy, Pea, Summer	Lack of knowledge on scientific production
	Fishery	vegetables, Fish	technology for TRC/WRC.
	Pani-kheti		Lack of knowledge on production technology for
	system		summer vegetables.
			Lack of knowledge on scientific production
			technology on pea.
			Lack of knowledge on fish diseases and control.
			Lack of knowledge IPM, INM, and IWM
			technology
			Lack of knowledge on storage

2. Extension priorities finalized for each farming system and crop.

SI.No	Farming system	Crops under the FS	Extension priority finalized
1	Agri – Horti – AH	Paddy, Maize	Lack of knowledge on scientific production
	– Fishery	Beans, Pea, Cowpea,	technology for TRC
	Zabo system	Arahar, Nagadal,	Lack of knowledge on scientific production
		Cabbage Banana,	technology for cereals and pulses
		Pear, Peach, Plum,	Lack of knowledge on nursery raising technique
		Garlic, Potato,	for vegetables
		Buffalo, Cattle and	Lack of knowledge on improved production
		Fish	technology for banana, passion fruit,
			Lack of knowledge on IPM in cereals, fruits and
			vegetables
			Lack of knowledge on composite fish farming.
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
2	Agri – Silvi –	Forest trees like	Lack of knowledge on multistoried cropping
	Horti – Pastural	Ficus spp, Bauhinia	system
		spp., Legistroma.	Lack of knowledge on high yielding varieties of

		Fodder grasses like	fodder crops,
		Broom grass, Napier	Lack of knowledge on production technology on
		etc. Maize, Millets,	banana and mandarin
		Banana, Pear, Peach,	Lack of knowledge on rejuvenation of declining
		Plum,	mandarin orchards
		Mithun, Cattle	Lack of knowledge on on health coverage
			livestocks.
			Lack of knowledge on nursery raising technique
			for vegetables
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
3	Agri - Horti	Maize, Millets,	Lack of knowledge on scientific production
		Jobstears, Beans,	technology on Maize.
		Cowpea, Pea, Garlic,	Lack of knowledge IPM technology
		Potato Banana, Pear,	Lack of knowledge on agro techniques for Tea
		Peach, Plum,	cultivation on temperate hills.
		Mandarin, Papaya,	Lack of knowledge on layout and orchard
		Large cardamom	management.
		Tea,	Lack of knowledge on training and pruning in
			fruits trees.
			Lack of knowledge on nursery raising technique
			for vegetables
			Lack of knowledge on INM and IWM
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
4	Agri – Horti	Jhoom Paddy, Maize,	Lack of knowledge IPM technology
	Jhum	Banana, Papaya,	Lack of knowledge on high yielding varieties of
		Beans, Cowpea, Pea,	papaya.
		Garlic, Potato,	Lack of knowledge on high quality banana
		Cabbage	varieties.
			Lack of knowledge on soil erosion and nutrient
			leaching
			Lack of knowledge on post harvest storage and
			processing of cereals, fruits and vegetables.
5	Agri – Horti -	Paddy, Pea, Summer	Lack of knowledge on scientific production
	Fishery	vegetables, Fish	technology for TRC/WRC.
	Pani-kheti		Lack of knowledge on production technology for
	System		summer vegetables.
			Lack of knowledge on scientific production
			technology on pea.
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		Lack of knowledge on fish diseases and control.
		Lack of knowledge IPM, INM, and IWM
		technology
		Lack of knowledge on post harvest storage and
		processing of cereals, fruits and vegetables.

3. Extension strategy for each farming system and crop.

SI.No	Farming	Crops under the FS	Extension strategy proposed	
	system			
1	Agri – Horti –	Paddy, Maize	Training on scientific production technology for	
	AH – Fishery	Beans, Pea, Cowpea,	TRC	
	Zabo system	Arahar, Nagadal,	Training on scientific production technology for	
		Cabbage Banana,	cereals and pulses	
		Pear, Peach, Plum,	Training cum demonstration on nursery raising	
		Garlic, Potato,	technique for vegetables	
		Buffalo, Cattle and	Demonstration on production technology for	
		Fish	banana, passion fruit,	
			Training on IPM in cereals, fruits and vegetables	
			Training & exposure visit to develop fish farm.	
			Training on storage and processing of cereals,	
			fruits and vegetables.	
			Exposure visit to food processing plant	
2	Agri – Silvi –	Forest trees like	Training on multistoried cropping system	
	Horti –	Ficus spp, Bauhinia	Exposure visit to developed horticultural farm	
	Pastural	spp., Legistroma.	Training on production technology of fodder	
		Fodder grasses like	crops,	
		Broom grass, Napier	Demonstration on production technology on	
		etc. Maize, Millets,	banana	
		Banana, Pear, Peach,	h, Demonstration on rejuvenation of declining	
		Plum,	mandarin orchards	
		Mithun, Cattle	Vaccination camp for livestocks.	
			Training cum demonstration on nursery raising	
			technique for vegetables	
			Training on storage and processing of cereals,	
			fruits and vegetables.	
			Exposure visit to food processing plant	
			Training on soil and water conservation	
3	Agri - Horti	Maize, Millets,	Training on scientific production technology on	
		Jobstears, Beans,	Maize.	
		Cowpea, Pea, Garlic,	Training on IPM technology	
		Potato Banana, Pear,	Training on agro techniques for Tea cultivation	

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		Peach, Plum,	on temperate hills.
		Mandarin, Papaya,	Training on layout and orchard management.
		Large cardamom	Demonstration on training and pruning in fruits
		Теа,	trees.
			Demonstration on nursery raising technique for
			vegetables
			Training on INM and IWM
			Training on soil and water conservation
4	Agri – Horti	Jhoom Paddy, Maize,	Training on IPM technology
	Jhum	Banana, Papaya,	Demonstration on high yielding varieties of
		Beans, Cowpea, Pea,	papaya.
		Garlic, Potato,	Demonstration on high quality banana varieties.
		Cabbage	Training on soil and water conservation
			technique
5	Agri – Horti –	Paddy, Pea, Summer	Training on scientific production technology for
	Fishery	vegetables, Fish	TRC/WRC.
	Pani-kheti		Demonstration on production technology for
	System		summer vegetables.
			Demonstration on scientific production
			technology on pea.
			Training on fish diseases and their control.
			Training on IPM, INM, and IWM technology
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5. Development Strategies for Tuensang

1. Extension gaps for each farming System and crops

1.	Extension gaps for each farming System and crops				
SI.No	Farming System	Crop Under the FS	Extension gaps Identified		
1.	Agril.+Horti	Cereals, potato, veg., garlic, chillies,	Promotion of HYV		
		Rajmah/ beans, Mustard, Ginger,	Adoption of improved		
		Groundnut, Colocasia, Topioca,	technology		
		Banana, Mango, guava, pears,	IPM & INM practice		
		passion fruit, peach, p.apple, Apple	Seed treatment		
		etc.	Promotion of irrigation		
2.	Agril.+Horti + A.H	Cereals, potato, veg., cole-crops,	Weed management		
		Rajmah / beans, soyabean,Rice bean,	Farm mechanization		
		Ginger, soyabean, Groundnut,	Organic manures		
		Mustard, Pea, Colocasia,Topioca,	Post harvest Management		
		Banana, apple, plum, guava, Mango,	Correct planting methods and		
		passion fruit, peach, Poultry, goatry,	system		
		diary, piggery (mainly Indigenous &	Training and Pruning		
		Mix breeds) etc.	Contour bunds/half-moon		
3.	Agril.+Horti + A.H	Cereals, Potato, Winter.veg., garlic,	terracing		
	+ Fishery	chillies, Rajmah/ beans, Ginger,	Harvesting techniques		
		Soyabean, Groundnut, Mustard, Pea,	Linkage of FO's/FIG's with		
		Colocasia, Tapioca, Banana, Mango,	regulated markets		
		guava, pears, passion fruit, peach,	Breed up-gradation through		
		p.apple etc, Poultry, goatry, diary,	Graded Bull/A.I		
		piggery (mainly Indigenous & Mix	Improving percentage of		
		breeds) and fishery.	conception in AI		
4.	Agril.+Horti + A.H		Improving Feed and Fodder		
	+ Sericulture	Cereals, potato, Winter.veg., garlic,	management		
		chillies, Rajmah/beans, Ginger,	Encouraging commercial		
		Groundnut, Colocasia Tapioca,	poultry farming		
		Banana, Mango, guava, pears,	Information about prices &		
		passion fruit, peach, p.apple,	Demand in		
		Poultry, goatry, diary, piggery	Different markets.		
		(mainly Indigenous & Mix breeds)	Management of ponds		
		and sericulture (Iri & Muga)	Introduction of latest		
			rearing/spinning & weaving		
			methods		

SI.No	Farming System	Crop Under the FS	Extension Priorities finalized
1.	Agril.+Horti	Cereals, potato, veg., garlic, chillies,	Promotion of HYV
		Rajmah/ beans, Mustard, Ginger,	Adoption of improved
		Groundnut, Colocasia, Topioca,	technology
		Banana, Mango, guava, pears, passion	IPM, INM & IWM practice
		fruit, peach, p.apple, Apple etc.	Farm mechanization
2.	Agril.+Horti + A.H	Cereals, potato, veg., cole-crops,	Organic manures
		Rajmah / beans, soyabean,Rice bean,	Post harvest Management
		Ginger, soyabean, Groundnut, Mustard,	Correct planting methods and
		Pea, Colocasia, Topioca, Banana, apple,	system
		plum, guava, Mango, passion fruit,	Training and Pruning
		peach, Poultry, goatry, diary, piggery	Contour bunds/half-moon
		(mainly Indigenous & Mix breeds) etc.	terracing
3.	Agril.+Horti + A.H	Cereals, Potato, Winter.veg., garlic,	Harvesting techniques
	+ Fishery	chillies, Rajmah/ beans, Ginger,	Linkage of FO's/FIG's with
		Soyabean, Groundnut, Mustard, Pea,	regulated markets
		Colocasia, Tapioca, Banana, Mango,	Breed up gradation through
		guava, pears, passion fruit, peach,	Graded Bull/A.I
		p.apple etc, Poultry, goatry, diary,	Improving percentage of
		piggery (mainly Indigenous & Mix	conception in AI
		breeds) and fishery.	Improving Feed and Fodder
4.	Agril.+Horti + A.H		management
	+ Sericulture	Cereals, potato, Winter.veg., garlic,	Encouraging commercial
		chillies, Rajmah/beans, Ginger,	poultry farming
		Groundnut, Colocasia Tapioca,	Information about prices &
		Banana, Mango, guava, pears, passion	Demand in different markets.
		fruit, peach, p.apple, Poultry, goatry,	Management of ponds
		diary, piggery (mainly Indigenous &	Introduction of latest
		Mix breeds) and sericulture (Iri &	rearing/spinning & weaving
		Muga)	methods

2. Extension Priorities for each farming System and crops

3. Extension Strategy Proposed for each farming System and crops

SI.No	Farming System	Crop Under the FS	Extension Strategy Proposed
1.	Agril.+Horti	Cereals, potato, veg., garlic, chillies,	1. Training on Scientific
		Rajmah/ beans, Mustard, Ginger,	Technologies
		Groundnut, Colocasia, Topioca,	2. Demonstration on Proven
		Banana, Mango, guava, pears, passion	Technologies
		fruit, peach, p.apple, Apple etc.	3. Awareness camps.
2.	Agril.+Horti + A.H	Cereals, potato, veg., cole-crops,	4. Field days.
		Rajmah / beans, soyabean,Rice bean,	5. Exhibitions.

		Ginger, soyabean, Groundnut, Mustard,	6. Exposure visit
		Pea, Colocasia, Topioca, Banana, apple,	7. Entrepreneurship
		plum, guava, Mango, passion fruit,	Development.
		peach, Poultry, goatry, diary, piggery	8. Agri-Clinic.
		(mainly Indigenous & Mix breeds) etc.	9. Diagnostic Service
3.	Agril.+Horti + A.H	Cereals, Potato, Winter.veg., garlic,	9. Linkage with finance
	+ Fishery	chillies, Rajmah/ beans, Ginger,	Agency.
		Soyabean, Groundnut, Mustard, Pea,	10. Training & demonstration
		Colocasia, Tapioca, Banana, Mango,	on spawn / fry / fingerling
		guava, pears, passion fruit, peach,	production & composite fish
		p.apple etc, Poultry, goatry, diary,	Culture.
		piggery (mainly Indigenous & Mix	11.Veterinary Services.
		breeds) and fishery.	
4.	Agril.+Horti + A.H		
	+ Sericulture	Cereals, potato, Winter.veg., garlic,	
		chillies, Rajmah/beans, Ginger,	
		Groundnut, Colocasia Tapioca,	
		Banana, Mango, guava, pears, passion	
		fruit, peach, p.apple, Poultry, goatry,	
		diary, piggery (mainly Indigenous &	
		Mix breeds) and sericulture (Iri &	
		Muga)	

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6. Development Strategies for Wokha

SI. No	Farming system	Crops under the FS	Extension gaps identified
			Lack of awareness
1	Agriculture	Rice, Maize	Lack of trainings
		Rice, Maize, sugarcane,	Lack of demonstrations
2	Agri+Horti	passion fruit	Lack of farmers participations
		Rice, Maize, common carp,	Lack of proven germplasm
3	Agri+Fishery	grass carp etc	Lack of regular visit to farmers field
		Rice, Maize, banana,	Lack of trainings to village level
4	Agri+Horti+Fishery	jackfruit, pineapple,	extension personnel
		common carp, grass carp	
		etc	
		Rice, Maize, banana,	
5	Agri+Horti+AH	jackfruit, pineapple, pig,	
		poultry, cattle etc	
6	Agri+AH	Rice, Maize, pig, poultry,	
		cattle	

1. Extension gaps for each farming system and crop

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agriculture	Rice, Maize	Trials and Demonstrations
		Rice, Maize, sugarcane,	Regular farmers field visit
2	Agri+Horti	passion fruit	Farmers tour
		Rice, Maize, common carp,	Film show
3	Agri+Fishery	grass carp etc	Diagnostic visit
		Rice, Maize, banana,	Scientist farmers interaction
4	Agri+Horti+Fishery	jackfruit, pineapple,	Training and awareness programmes
		common carp, grass carp	Advisory services
		etc	
		Rice, Maize, banana,	
5	Agri+Horti+AH	jackfruit, pineapple, pig,	
		poultry, cattle etc	
6	Agri+AH	Rice, Maize, pig, poultry,	
		cattle	

SI. No	Farming system	Crops under the FS	Extension strategy proposed
		Rice, Maize	
1	Agriculture		
		Rice, Maize, sugarcane,	
2	Agri+Horti	passion fruit	Regular awareness programme
		Rice, Maize, common carp,	Regular trainings programmes
3	Agri+Fishery	grass carp etc	Demonstrations on improved
		Rice, Maize, banana,	technology
4	Agri+Horti+Fishery	jackfruit, pineapple,	Farmers participations to be
		common carp, grass carp	encouraged
		etc	Popularization of improved breeds
		Rice, Maize, banana,	of livestock and poultry
5	Agri+Horti+AH	jackfruit, pineapple, pig,	Visit to farmers field on regular
		poultry, cattle etc	basis
6	Agri+AH	Rice, Maize, pig, poultry,	Trainings to village level extension
		cattle	personnel

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SI.No.	Farming system	Crop under the FS	Extension gaps identified	
1	FS- I	Rice, soybean & Maize	Lack of Mass Media, awareness and interest	
			Lack of Demonstration facility	
2	FS- II	Rice, Maize	Lack of Mass Media, awareness and interest	
			Lack of Demonstration facility	
3	FS- III	Rice, Maize & Kholar	Lack of Mass Media, awareness and interest	
			Lack of Demonstration facility	

Extension gaps for each Farming system and crop 1.

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Extension priorities finalized for each Farming system and crop 2.

	•			
SI.No.	Farming system	Crop under the FS	Extension priorities finalized	
1	FS- I	Rice, soybean & Maize	Creating interest, awareness, updating skill,	
			knowledge and attitude change towards	
			new technology	
2	FS- II	Rice, Maize	Creating interest, awareness, updating skill,	
			knowledge and attitude change towards	
			new technology	
3	FS- III	Rice, Maize & Kholar	Creating interest, awareness, updating skill,	
			knowledge and attitude change towards	
			new technology	

3. Extension strategy for each Farming system and crop

SI.No.	Farming system	Crop under the FS	Extension strategy proposed	
1	FS- I	Rice, soybean & Maize	Exposure to mass media, conducting OFT,	
			FLD, method demonstration, result	
			demonstration, arousing interesting,	
			creating awareness	
2	FS- II	Rice, Maize	Exposure to mass media, conducting OFT,	
			FLD, method demonstration, result	
			demonstration, arousing interesting,	
			creating awareness	
3	FS- III	Rice, Maize & Kholar	Exposure to mass media, conducting OFT,	
			FLD, method demonstration, result	
			demonstration, arousing interesting,	
			creating awareness	

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6.7 Development Strategies for Sikkim

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1. Development Strategies for North Sikkim

1. Extension gaps for each farming system and crop:

SI. No.	Farming System	Crops under the FS	Extension gaps identified
1.	Agriculture+	Maize, paddy, wheat,	Use of untreated seeds, imbalance use of
	Horticulture +	soybean, orange,	fertilizers, inadequate pest and disease
	Animal Husbandry	cardamom.	management, low adoption of hybrid
			varieties, no proper irrigation facilities,
			sowing by broadcasting, low application of
			organic manure, non-use of bio fertilizers.

2. Extension priorities finalized for each farming system and crop:

SI. No.	Farming System	Crops under the FS	Extension priorities finalized	
1.	Agriculture+ Maize, paddy, wheat,		Encourage seed treatment, encourage	
	Horticulture +	soybean, orange,	balance use of fertilizers as per the package	
	Animal Husbandry	cardamom.	of practices, popularization of integrated pest	
			and disease management, popularizing the	
			use of hybrid varieties, impart knowledge	
			about the judicious use of water and also	
			about water harvesting structures,	
			popularizing sowing in line, popularizing the	
			use of FYM/Vermi compost, popularizing the	
			use of bio fertilizers like rhizobium,	
			azotobacter, Phosphate solubilizing bacteria,	
			etc.	

3. Extension strategy for each farming system and crop:

SI. No.	Farming System	Crops under the FS	Extension strategy
			proposed
1.	Agriculture+ Horticulture +	Maize, paddy, wheat, soybean,	-Demonstration, print
	Animal Husbandry	orange, cardamom.	material.
			-Field day and exposure
			visit.

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2. Development Strategies for West Sikkim

SI. No.	Crop	Gaps in Technology adoption	Reasons for non adoption	Proposed Extension Strategy
1.	Maize	Low germination of hybrid seed	Lack of awareness	Encouraging farmers for
1.	Maize	Low yield due to low		adopting seed village
			Lack of input for IPM/INM/organic	
		germination	fertilizer	programme
		Proper plant spacing not		Capacity building of
		maintain	Lack of knowledge	farmers on organic
		No integrated nutrient	on organic	cultivation practices
		management and pest	cultivation	Promoting biopesticed
		management		for pest and disease
				mangement
2	Paddy	Less adoption of improved	Lack of awareness	Promotion of high
		and high yielding hybrid	Lack of conviction	yielding hybrid
		varieties	Low mechanization	varieties.
		No application of bio fertilizers	High cost of	Accelerate the seed
		for paddy.	weeding	village programme for
		Low application organic		ensuring supply of
		manure		good quality seed.
		Less plant protection		Promotion of raised
		measures for paddy		bed preparation
		Low yield due to high plant		Promotion of Nursery
		population		management
				Promotion of SRI
				Promotion of organic
				fertilizers for paddy
				crop
				Promotion of Farmers
				Field School for
				integrated paddy
				management
				Promotion of
				Biofertilizers i.e. Blue
				green algae and Azolla
				for paddy.
				Promoting
				biopesticides for pest
				management
				J I I I

1. Development strategies proposed

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3	Wheat	Less application of recently	Lack of resources	Promoting seed
		released improved varieties	Lack of awareness	production of
		seed	Non availability of	recently released
		No water management as per	oranic package of	improved varieties
		critical growth stage of the crop	Practices	Educating farmers
		Organic cultivation		for integrated crop
				management
				practices through
				Farmers Field
				Schools.
				Promoting organic
				cultivation
4	Soyabean	Less adoption of HYV	Lack of knowledge	Promoting organic
		No seed treatment with biofer	on organic package	cultivation
		tiler	of practices	Training and
		Farmer consider the crop as	Biofertilizer not	demonstration for
		least important crop	easily available	use of biofertilizer
			except the	
			government	
			distribution	
5	Paheli Dal	No management of storage	Lack of knowledge on	Promoting organic
		Pest	management of	cultivation
		Least importance to the crop by	storage pest	Creat awareness on
		the government agencies	Least importance	storage pest
		Quality seed is not assured	being the local race	management
			though the crop is	Village seed
			preffered one and	programme for
			have assured market	quality seed
6	Реа	Staking properly not done	Lack of knowledge on	Promoting organic
		Non adoption of dwarf varieties	organic Practices for	cultivation
		due to low yield	pest and disease	Taining and
		Definite management practices for	management	demonstration on
		pest and diseases not followed	practices	staking and Pest
			Low yield of dwarf	and diseases
			varieties	

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7	Cardamom	Nursery management is very poor	Lack of Knowledge	Promotion of
		Shade regulation	and resources for	nurseriman for
		Improper nutrient management	quality seedling	production of quality
		Pest management is nil	production	seedlings
		Faulty and energy consuming	No knowledge on	Frontline
		bhatti for curing	organic pest control	demonstration on
			and nutrient	farmers field for
			mangement	pest snd disease
			Lack of conviction	management
			and slackness	Promotion of farmer
			toward the crop	field school
			because of	Promotion of
			devastating loss due	organic pest and
			to various diseases	disease
			Non availability of	management
			disease free seedling	Training on shade
			Treat the crop as	regulation
			traditional one	
			None availability of	
			biopesticides	
			Improved bhatti for	
			curing is not available	
8	Potato	Non adoption of varieties resistant	Non availability of	Promotion of
		to Late Blight	organic package of	organic package and
		No Tuber treatment	Practices	practices
		Low nutrient input		Training,
		No management for pest and		demonstration and
		diseases		exposure visit
		No grading		
9	Ginger	Seed rate is very high	Lack of knowledge on	Training
		Donot follow the proper crop	organic package of	Demonstration and
		rotation	Practices	exposure visit
		No Rhizome treatment	Lack of knowledge	
		Low nutrient input	Less availability of	
		Use the seed rhizome from	input for pest and	
		diseased soil	disease management	
		Improper pest and management		
		Improper seed rhizome storage		
L	1		1	1

10	Cilding	Foulty purcons tochoices	Lock of knowledge er	Capacity building on
10	Sikkim	Faulty nursery technique	Lack of knowledge on	Capacity building on
	Mandarin	Planting time, technique	nursery raising	nursery
		orchard layout usually not done	Lack of irrigation	management and
		Exhaustive intercrop	facilities	production of
		Deep ploghing around the plant	Exhaustive intercrop	disease free
		Low nutrient input	like Ginzer fetch	seedlings, orchard
		Donot irrigate during the dry spell	better price	layout
		Sanitation around the tree not	Intercultivation due	Promotion of drip
		maintain	to low land holding	irrigation
		Application of bordeax paste	Non availability of	Training and
		Improper pest and disease	input like	demonstration on
		management	biopesticides	complete package of
		No management specially Fruitfly	Lack of knowledge	practices
		and Trunk borer	on organic package	Exposure visit
		Grading and marketing not upto	of practices	
		the mark	Lack of knowledge	
			on organic pest	
			management	
11	Cabbage /	Lack of nursery management.	Lack of knowledge	Organizing training
	Cauliflower	Lack of water management.		on nursery
		Lack of nutrient management.		preparation,
				improved and
				about cultivation
				practices, Organic
				pest and disease
				management
				Demonstration on
				Organic pest and
				disease
				management
				Organic production
				practices
				convergence with
				micro-irrigation
				Promotion of off-
				season cultivation
12	Tomato	No nursery management	Lack of knowledge	Organizing training
		practices	on Package of	on nursery
		No fertilizer management	Practices	preparation,
		Poor water management	High cost of	improved and
		Severe yield losses due to blight	polyhouse for off	about cultivation

		and fruit borer	season tomato	practices,
		No pest management followed	cultivation	Demonstration on
		No training and support to		Organic pest and
		tomato plant.		disease
		Poor grading practices		management
		No facility for cold storage &		Organic production
		cooling chain		practices
		No processing facilities		convergence with
				micro-irrigation
				Promotion of
				greenhouse
				cultivation for off
				season production
				through training
				and demonstration
13	Carrot /	Lack of availability of quality		Organizing training
	Radish	seed.	Lack of knowledge	on improved and
		Severe infestation of	on package and	about cultivation
		nematodes.	practices	practices, Pest,
		Lack of water management.		nutrient and
		Lack of fertilizer management.		disease mangement
		Lack of grading.		Demonstration on
		Lack of value addition and		Organic pest and
		processing.		disease
				management
				Organic production
				practices
				convergence with
				micro-irrigation
14	Cucurbitace	Lack of proper trailing.	Lack of knowledge	Organizing training
	ae crops	Lack of water management.	on package and	on seedling
		Lack of nutrient management.	practices	preparation,
		Lack of knowledge regarding		improved and
		fruit setting.		about cultivation
		Lack of plant protection.		practices
		Lack of grading, packaging and		Demonstration on
		value addition.		Organic pest and
				disease
				management
				Organic production
				practices

				convergence with
				-
15	Cumbidium	Coodlings are not treated with	Llich cost of potting	micro-irrigation
15	Cymbidium	Seedlings are not treated with	High cost of potting	Exposure visit and
		fungicide	mixture	training to the
		Lanuna in making potting	Highly specific	cymbidium grower
		mixture	package of practices	Training on pest
		Spacing of pot and Size of the	Lack of knowledge	and disease
		pot not maintained	on pest and	management,
		Improper pest and disease	diseases	housing and other
		management	management	cultivation aspects
		Grading and Packaging of the	Non-availability of	
		flowers	quality planting	
		Net or polyhouse not properly	material	
		maintain		
16	Lilium	Bulb treatment not done	Lack of knowledge	Training &
		Spacing is not properly	Non-availability of	Demonstration
		maintained	input for different	Exposure visit
		Pest and disease management	activities	
		practices not followed		
		Timely cold storage of the bulb		
		not followed		
		Grading and packaging of the		
		cut flower not up to the mark		
17	Gladiolus	Selection of site is not proper	Lack of knowledge	Training and
		Selection of varieties	Non-availability of	Demonstration
		Spacing	input different	Training on pest
		Lack of bulb treatment	activities	and disease
		Improper nutrient, pest and		management
		disease management		
		Grading and packaging of		
		flower		
18	Marigold	No nursery management for	Lack of availability	Organizing training
		seedling preparation.	Lack of knowledget	on production
		Less application of organic	No authentic control	technology of
		fertilizers.	for alterneria blig	marigold.
		No adoption of improved seed.		Demonstration on
		Low basal fertilizer application.		IPM/INM /IDM.
		Poor water management		Convergence with
		practices.		micro-irrigation
		Marigold has been devastatingly		

		· · · · · · · · · · · · · · · · · · ·		
		damaged by Blight		
19	Aromatic	Unavailability of pure planting	No availability of	Capacity building of
	Plants	material in the district.	pure planting	farmers about
	cultivation	Low recovery of oil from present	material at	cultivation practices
	and	variety due to admixture	Government	of citronella and
	processing	No standardized processing	nurseries.	other aromatic
		technology	Planting material is	plants
		No sufficient area under	not true to type.	Promoting
		citronella plantation for	Low land holding	multiplication of
		economically operating installed	and lack of group	pure planting
		processing unit.	plantation	material by raising
		No value addition and fractional	Lack of technology	nursery
		distillation facilities available	and investment	Promoting for area
		No marketing facilities available	capacity	expansion
		for marketing citronella oil	Lack of group	Organizing aromatic
		Fluctuating citronella oil markets	approach in	plant cultivators for
		Marketing is concentrated in	marketing	marketing,
		private sector	Marketing is control	Processing and
		Marketing is depending on	by middlemen	value addition
		middlemen.		activities
		Lack of group processing and		Capacity building of
		marketing		entrepreneurs for
				value addition and
				standardized
				distillation process
				Promoting for
				integrated fertilizer
				management.
				Promoting organic
				cultivation
				Promoting for micro
				-irrigation to
				aromatic plants.
20	Post	15 -20% post harvest losses	Lack of proper	Capacity building
	Harvest	due to lack of proper handling of	handlingof fruits &	of farmers on post
	Managem	fruits & vegetables.	vegetables.	harvest
	ent	No pack houses on farms for	Lack of farm	management
		proper packaging	facilities proper	activities
		No facilities for grading	packing.	Promoting farmers
		Low prices due to lack of sorting	No facilities for	for construction of
		of fruits and vegetables	proper grading and	Pack houses
			p. spor grading and	

			sorting	Promoting farmers
			No facilities of	for construction of
			storage for short	cold storages.
			period	Promoting farmers
				for construction of
				pre cooling centres.
				Promoting farmers
				for fruit and
				vegetable
				processing activities
				Market intelligence
				Formation of
				farmers group for
				contract farming
				Capacity building on
				contract farming
21	Soil health	Soil and water testing facilities	Lack of soil and	Promoting fertilizer
		inadequate	water testing	application based
		No awareness about soil fertility	facilities within	on soil analysis
		index	farmers' reach.	Collection of soil
		No technical knowledge about		samples and water
		taking soil and water samples		samples for
		No technical knowledge in		rejuvenation of old
		understanding of analysis		orchards under
		report.		NIIM
		Poor drainage of soils due to		Organizing farmers
		obstructions to drainage		training on farmers
		Deterioration of well water		fields.
		quality for crop irrigation		Organizing farmers
				training on
				problematic &
				horticulture
				concentrated
				villages
				Educating farmers
				about importance of
				organic/bio-
				fertilizers
				Educating farmers
				about methods of
				fertilizer application
				fertilizer application

				& fertilizer use as
				per soil analysis
				Collection of ten soil
				samples from each
				village.
				Prioritizing water
				sampling for
				installation of
				micro- irrigation
				system
22	Organic	Low availability of organic	Lack of awareness	Trainings on
	farming	fertilizers	Lack of resources	Vermicompost Units
	Activities	Lack of standardized		Biodynamic
		recommended package of		Compost Pits
		practices for organic production.		preparation
		Lack of standardization of ITK's		Formation of
		for low cost plant protection		Organic Farming
		measures		Group Promoting
		More cost of organic		Groups for Organic
		certification		Farming
		No retailing outlets for		Certification
		organically crop produce		Promoting organic
		No certifying agency in the		crop production
		district		through Exhibitions
				Promoting for on
				farm Organic
				Inputs Production
23	Dryland	No insitu soil moisture	Lack of awareness	In DPAP Zone
	Agricultur	conservation activities	Lack of knowledge	giving major thrust
	е	No contour cultivation practices	Lack of resources	of in situ moisture
	Developm	No crop planning as per soil	Lack of skills	conservation by
	ent	type and depth	Lack of Credit	adopting dry land
		No adoption of improved		technique i.e.
		drought resistant varieties		Drought resistant
		No crop rotations		verities
		No recommended intercropping		Cereal + Pulses
		No application of recommended		inter cropping
		organic manures		Contour cultivation
		No basal fertilizers		with ridges /
		No adoption of double bowl sed		furrows
		ferti drill		Compartment

				hundin -
		No adequate interculturing		bunding -
		Lack of soil mulching		Farm pond
		No recommended plant		Mulching
		population		Dead furrow
		No protective irrigation facilities		opening
		Poor plant protection measures		Well recharging
		No alternative cropping pattern		Plantation on bunds
		No vegetative bunds		Foliar application of
		No application of biofertilizers,.		fertilizer
		No adoption of integrated		Promoting
		nutrient management		application of
		No adoption of integrated pest		Biofertilizers
		management		Promoting for
		No foliar sprays of fertilizers		organic farming
				Diversification by
				introducing dry land
				and strengthening
				of AHDS
				Promoting for
				integrated nutrient
				management
				practices.
				Promoting for
				integrated pest
				management
24	Cows	Repeat breeding due to	Lack of awareness	Organizing training
	Cross	malnutrition, inbreeding, and		on feeding, breeding
	breed	infections.		and health care
		Reducing trend of productivity due	Lack of awareness	management
		to indiscriminate and poor quality		Educating about
		Artificial Insemination service		hygienic clean
		Low milk yield due to lack of	Lack of awareness	housing for dairy
		mineral and vitamins		chattels
		No clean milk production	Lack of awareness	Promoting timely
		Poor housing management for		vaccination
		milk cattles		Promoting
		Ecto and endo parasite infection		diversification of
		Inadequate forage production and		Animal Husbandry &
		its availability	Lack of awareness	Dairy enterprise
		No balanced ration and feed	Luck of awareness	
				Promoting
		supplement		deworming and

		No sufficient dry fodder		seasonal vaccination
		Frequent sickness in lactation	Lack of awareness	for sheep and goat
		Unutilization of available livestock		herds
		biomass for generating electricity		Educating farmers for
		in rural areas		better management
				of animals for higher
				returns
				Promoting forage
				crop cultivation by
				introducing high
				yielding forage crops
				Promoting adoption
				of recommended
				management
				practices and timely
				vaccinations
				Utilization of
				available livestock
				biomass for
				generating electricity
				in rural areas
				Cattle Fair and
				Exhibition
25	Goat	Slow weight gain and low	Lack of awareness	Organizing training
		productivity due to indiscriminate	Lack of resources	on feeding, breeding
		breeding practices	Lack of availability	and health care
		Non-availability of graded bucks	,	management.
		for natural service		Promoting timely
		Lack of concentrates, vitamins and		vaccination
		minerals		Promoting
		Foot & mouth disease & foot rot		deworming and
		disease due to lack of preventive		seasonal
		vaccination and hygiene		vaccination for
		management practices		sheep and goat
		5		herds
				Educating farmers for
				better management
				of animals for higher
				returns
				Promoting adoption
				of recommended
				Si recommended

				management
				practices and timely
				vaccinations
26	Fisheries	No technical knowledge of fish	Lack of awareness	Promoting fish
		farming	Lack of knowledge	farming in available
		Under utilization of available	Lack of resourses	private water bodies
		water bodies for fish farming.		Promoting fish
		Poor rnanagement of existing		farming in farm
		fishfarms		ponds and
		Non availability of fisherlings		community ponds
				constructed under
				NREGS
				Capacity building of
				farmers on fish
				farming management
				activities
				Promoting farmers
				for group formation
				for marketing
27	Involveme	Lack of farm women involvement	Lack of awareness	Promoting farm
	nt of farm	in Extension activities		women to participate
	women in			in various Extension
	Agricultur			activities by activities
	e			Organizing training of
				farm women for
				improving skill in
				agricultural activities
				Promoting need
				based training to
				farm women
				Promoting
				mobilization of farm
				women groups
28	Promoting	Low involvement of private	Lack of conviction	Promoting public-
20	Public-	sector in government	and integration.	private partnership in
	Private	programmes for agricultural	and megration.	agricultural extension
	Partnershi	technology dissemination, input		activities
		production and supply, post		Promoting multi
	p in Agricultur			_
	Agricultur	harvest management and		agency extension
	е	marketing.		services in

		agricultural
		development
		Promoting private
		extension service
		providers to
		strengthen
		agricultural activities.

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6.8 Development Strategies for Tripura

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1. Development Strategies for West Tripura

SI. No	Farming system	Crops under the FS	Extension gaps identified
1	Agri-Horti-Pisci-	Paddy, summer & winter vegetables,	(a) Lack of awareness towards
	Livestock	oilseeds, pulses, Indian major &	recent technologies
		minor carps, poultry birds, milch	(b) More adherence towards
		cattle, goat, pig duck etc.	social beliefs,
2	Horti-Agri-Livestock	Paddy, summer & winter vegetables,	(c) Unavailability of technical
		oilseeds, pulses, poultry birds,	guidance from concerned
3	Agriculture based	Paddy (2 crops)	department,
4	Livestock based	Poultry birds and pig	(d) Lack of Knowledge and
5	Horti-Pisci-Agri	Paddy, summer & winter vegetables,	favourable attitude of
		Indian major & minor carps	farmers towards innovation,
6	Livestock-Agri-Horti	Pig, goat, poultry birds, paddy,	(e) Lack of communication
		mustard, maize, colocasia, banana,	between
		pine apple	researcher/extension
7	Agri-Horti-Silvi-	Rubber, pineapple, banana, teak,	personnel and villagers,
	Pastoral-Livestock	karoi, bamboo, citrus	(f).Preference to traditional
8	Plantation (Rubber)	Rubber and tea	practices
	based		(g) Fluctuating market prices.
9	Plantation-Pisci-	Rubber, pig, poultry bird.	(h) Lack of awareness for routine
	Livestock based		healthcare of livestock,
10	Horticulture based	Summer and winter vegetables	zoonosis, epidemics,
			prophylaxis

1. Extension gaps for each farming system and crop

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2. Extension priorities finalized for each farming system and crop

SI. No	Farming system	Crops under the FS	Extension priorities finalized
1	Agri-Horti-Pisci-	Paddy, summer & winter vegetables,	(a) Development of good
	Livestock	oilseeds, pulses, Indian major &	communication between
		minor carps, poultry birds, milch	researcher, extension personnel
		cattle, goat, pig duck etc.	and farmers
2	Horti-Agri-	Paddy, summer & winter vegetables,	(b) Comparison between traditional
	Livestock	oilseeds, pulses, poultry birds,	and modern techniques of
3	Agriculture	Paddy (2 crops)	cultivation
	based		(c) Development of positive
4	Livestock based	Poultry birds and pig	attitude among farmers towards
5	Horti-Pisci-Agri	Paddy, summer & winter vegetables,	innovation keeping in mind the
		Indian major & minor carps	importance of traditional
			practices.

6	Livestock-Agri-	Pig, goat, poultry birds, paddy,	(d) Improvement of socio-economic
	Horti	mustard, maize, colocasia, banana,	condition of the farmers.
		pine apple	
7	Agri-Horti-	Rubber, pineapple, banana, teak,	
	Silvi-Pastoral-	karoi, bamboo, citrus	
	Livestock		
8	Plantation	Rubber and tea	
	(Rubber)		
	based		
9	Plantation-	Rubber, pig, poultry bird.	
	Pisci-Livestock		
	based		
10	Horticulture	Summer and winter vegetables	
	based		

3. Extension strategy for each farming system and crop

SI.	Farming	Crops under the FS	Extension strategy proposed	
No	system	crops under the 15	Extension strategy proposed	
1	Agri-Horti-	Paddy, summer & winter vegetables,	Awareness programme and result	
	Pisci-Livestock	oilseeds, pulses, Indian major & minor	demonstration	
		carps, poultry birds, milch cattle, goat,		
		pig duck etc.		
2	Horti-Agri-	Paddy, summer & winter vegetables,	Awareness programme, result	
	Livestock	oilseeds, pulses, poultry birds,	demonstration and farm and home	
			visit	
3	Agriculture	Paddy (2 crops)	Method demonstration, result	
	based		demonstration, FLD and OFT	
4	Livestock	Poultry birds and pig	OFT, exposure visit, farm and home	
	based		visit, livestock health care and	
			awareness programmes with line	
			departments.	
5	Horti-Pisci-Agri	Paddy, summer & winter vegetables,	Result demonstration Awareness	
		Indian major & minor carps	programme, OFT,	
6	Livestock-Agri-	Pig, goat, poultry birds, paddy,	Result demonstration, awareness	
	Horti	mustard, maize, colocasia, banana,	programme and OFT,	
		pine apple		
7	Agri-Horti-	Rubber, pineapple, banana, teak,	Method demonstration, study tour,	
	Silvi-Pastoral-	karoi, bamboo, citrus	awareness programme and Personal	
	Livestock		interview,	
8	Plantation	Rubber and tea	Exposure visit, result demonstration	

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	(Rubber) based		and method demonstration,
9	Plantation- Pisci-Livestock based	Rubber, pig, poultry bird.	Awareness programme, personal interview and result demonstration
10	Horticulture based	Summer and winter vegetables	Method demonstration, OFT, FLD and exposure visit.

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