

## FRONTLINE DEMONSTRATIONS

### 5.A. Summary of FLDs implemented during 2010-11

Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
								Proposed	Actual	SC/ST	Others	Total	
<b>Oilseeds</b>													
Sesamum	Irrigated	Rabi 2011	Sesamum	VRI(Sv)2	-	ICM	Seed VRI (SV) 2 Treat the seed with <i>Pseudomonas fluorescense</i> TDK 1 @ 10 g /kg Seed and soil application of Azospirillum & Phosphobacteria STL based fertilizer application Application of MnSO <sub>4</sub> as basal Foliar spray of MnSO <sub>4</sub> 0.3% & ZnSO <sub>4</sub> 0.5% @ 30 & 50 DAS @ 3 & 5 kg respectively / ha00000000 Foliar spraying of Chloripyriphos@ 2ml/lit of water during pest incidence Soil application of neem cake – 100Kg/ha	5	5	2	16	18	Trial under progress (Date of sowing – First fortnight of February 2011)
<b>Pulses</b>													
Blackgram	Irrigated	Rabi 2011	Blackgram	VBN(5)	-	ICM	New variety VBN(Bg)5 Seed and soil application of biofertilizer and bioagents Soil test based nutrient application Basal application of ZnSO <sub>4</sub> Foliar spraying of pulse wonder @ 6.25 kg / ha at peak flowering stage Urea 1% at flowering and another at 15 days interval Growth regulator NAA 4.5 ml @ 10 lit of water and salicylic acid 100 mg / lit during flower initiation and pod formation	5	5	1	12	13	Trial under progress (Date of sowing – First fortnight of February 2011)
Fodder cowpea	Irrigated	Rabi 2011	Cowpea	Co(FC)8	-	ICM	New improved variety with package of practice	5	5	1	11	12	-
<b>Cereals</b>													
Paddy	Irrigated	Rabi 2010	Paddy	ADT-45	-	IPM	Seed treatment with bioagents Adopt the spacing 20 x 20 m followed by not spraying of any insecticide if the BPH below ETL Maintenance of water level Application of low dose of nitrogeneous fertilizer	5	5	0	10	10	-
<b>Millets</b>													
Cumbu	Irrigated	Rabi 2010	Cumbu	Co(Cu)9	-	ICM	- Co(cu) 9 seed - Seed and soil application of biofertilizers. - Soil test based nutrient application. - Micronutrient Management - Seed hardening with KCl 2% - Foliar spraying of metalaxyl @ 2g/lit of water 2 times	4	4	1	9	10	Trial under progress (Date of sowing – First fortnight of March 2011)
<b>Vegetables</b>													
Chillies	Irrigated	Rabi 2010	Chillies	KKM 1	-	ICM	Seed treatment with <i>T.virde</i> 4g/kg of	2	2	2	8	10	-

							seed and <i>Pseudomonas</i> 10g/kg of seed Soil application of <i>Pseudomonas fluorescens</i> @ 2.5 kg Soil application of 2 kg each of <i>Azospirillum</i> and <i>Phosphobacteria</i> /ha as basal Application of micronutrients 7 kg/ha as basal Soil test based fertilizer application Spraying of triacantanol 1.25 ppm on 20, 40, 60 and 80th DAP Spraying of planofix 10 ppm on 60 and 90 DAP Spraying of propargite 2 ml/lit at the time of sucking pest incidence (twice with 7 days interval)						
Multiplier onion	Irrigated	Rabi 2010	Multiplier onion	Co(on)5	-	ICM	Seed treatment with Azospirillum @ 200 g / kg Application of VAM @ 1 kg / sq.m of nursery	5	5	0	10	10	
Small onion	Irrigated	Rabi 2010	Small onion	Co-4		ICM	Bulb treatment with <i>T.viride</i> @4g/kg of bulb & <i>Pseudomonas</i> @ 10g/kg of bulb. Soil application of <i>Azospirillum</i> @ 2 Kg/ha, <i>Phospobactreia</i> 2 kg/ha <i>T.Viride</i> 2.5kg/ha and VAM 12.5Kg/ha Soil application of MN mixture @ 6.25 Kg/ha. Basal application of ZnSO <sub>4</sub> @ 25Kg/ha. Spraying of Novaluron @ 1ml/lit during pest incidence Spraying of Chlorothalonil @ 1g / lit 2 times	4	4	2	18	20	
Flowers													
Ornamental													
Fruit													
Acidlime	Irrigated	Rabi 2010	Acidlime	PKM-1		ICM	Spraying of 0.1% Brassinolides + Foliar spraying of ZnSO <sub>4</sub> (0.5%), MnSO <sub>4</sub> (0.5%) and Urea (0.1%) 2times	5	5	4	6	10	
Spices and condiments													
Commercial													
Medicinal and aromatic													
Plantation													
Fibre													
Poultry													
Turkey	Free range	Rabi 2010	Turkey	-	Beltsvile small	Populariza tion of	Popularization of new breed turkey – Beltsville small white	200 birds	200 birds(20	8	12	20	

Poultry	Free range	Rabi 2010	Desibird	-	white Rhodo white	new breed Popularization of new breed	Popularization of new breed poultry – Rhodo white	200 birds	F) 200 birds (10 F)	4	6	10	
Sheep and goat													
Goat	Semi – intensive	Rabi 2010	-	-	-	Nutrition management	Deworming, Supplementation of vitamins and minerals	150 goats	150 goats	4	6	10	
Goat	Semi-intensive	Rabi 2010	-	-	-	Nutrient management	Popularization of salt lick cake	100	100	0	10	10	
Fodder	Irrigated	Rabi 2010	Fodder	-	-	Nutrient management	Popularization of fodder bank at village level	1	1	4	6	10	
Duckery													
Common carps													
Mussels													
Ornamental fishes													
Oyster mushroom													
Button mushroom													
Vermicompost													
Sericulture													
Apiculture													
<b>Implements</b>													
Groundnut stripper	Irrigated	Kharif 2010	Groundnut	VRI(Gn)7	-	Drudgery reduction	Separating the groundnut pods by using groundnut stripper	10	10	4	16	20	
Sprinkler	Irrigated	Rabi – 2011	Groundnut, maize and onion	-	-	Micro irrigation	Popularization of mini portable sprinkler to mitigate the stress management in rainfed and irrigated crops	1 unit	1 unit	(38 farmers)			
Coconut climber	Irrigated	Round the year	Coconut	-	-	Drudgery reduction	Popularization of coconut climber	1 unit	1 unit	18	82	100	
Incubator	Backyard	Round the year	Poultry	-	-	Hatchery management	Popularization of incubator among SHG members	1 unit	1 unit	23	27	50	
Feed mixing unit	Semi-intensive	Round the year	Dairy	-	-	Nutrient management	Preparation of low cost concentrated feed	20	20	4	6	10	Nil

#### 5.A. 1. Soil fertility status of FLDs plots during 2010-11

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
Oilseeds													

1	Sesamum	Irrigated	Rabi 2011	Sesamum	VRI(Sv)2	-	ICM	Seed VRI (SV) 2 Treat the seed with <i>Pseudomonas fluorescense</i> TDK 1 @ 10 g /kg Seed and soil application of Azospirillum & Phosphobacteria STL based fertilizer application Application of MnSO <sub>4</sub> as basal Foliar spray of MnSO <sub>4</sub> 0.3% & ZnSO <sub>4</sub> 0.5% @ 30 & 50 DAS @ 3 & 5 kg respectively / ha00000000 Foliar spraying of Chloripyriphos@ 2ml/lit of water during pest incidence Soil application of neem cake – 100Kg/ha	Rabi 2011	81.56 (Low)	5.72 (Medium)	94.63 (Medium)	Paddy
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**Pulses**

1	Blackgram	Irrigated	Rabi 2011	Blackgram	VBN(5)	-	ICM	New variety VBN(Bg)5 Seed and soil application of biofertilizer and bioagents Soil test based nutrient application Basal application of ZnSO <sub>4</sub> Foliar spraying of pulse wonder @ 6.25 kg / ha at peak flowering stage Urea 1% at flowering and another at 15 days interval Growth regulator NAA 4.5 ml @ 10 lit of water and salicylic acid 100 mg / lit during flower initiation and pod formation	Rabi 2011	101.86 (Medium)	04.88 (Medium)	98.36 (Medium)	Paddy
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2	Fodder	Irrigated	Rabi summer 2011	Cowpea	Co(Fc)8	-	Availability of green fodder	Popularization of fodder cowpea	Rabi summer 2011	96.33 (Low)	4.63 (Medium)	114.58 (High)	
<b>Cereals</b>													
1	Paddy	Irrigated	Rabi 2010	Paddy	ADT - 45		IPM	Seed treatment with bioagents	Rabi 2010	94.64 (Low)	4.79 (Medium)	97.94 (Medium)	Paddy

								Adopt the spacing 20 x 20 m followed by not spraying of any insecticide if the BPH below ETL Maintenance of water level Application of low dose of nitrogeneous fertilizer					
<b>Millets</b>													
1	Cumbu	Irrigated	Rabi 2010	Cumbu	Co(Cu)9	-	ICM	- Co(cu) 9 seed - Seed and soil application of biofertilizers. - Soil test based nutrient application. - Micronutrient Management - Seed hardening with KCl 2% - Foliar spraying of metalaxyl @ 2g/lit of water 2 times	Rabi 2010	79.2 (low)	05.42 (Medium)	97.7 (Medium)	Onion
<b>Vegetables</b>													
1	Chillies	Irrigated	Rabi 2010	Chillies	KKM(Ch)1		ICM	Seed treatment with <i>T. virde</i> 4g/kg of seed and <i>Pseudomonas</i> 10g/kg of seed Soil application of <i>Pseudomonas fluorescens</i> @ 2.5 kg Soil application of 2 kg each of <i>Azospirillum</i> and <i>Phosphobacteria</i> /ha as basal Application of micronutrients 7 kg/ha as basal Soil test based fertilizer application Spraying of triacantanol 1.25 ppm on 20, 40, 60 and 80th DAP Spraying of planofix 10 ppm on 60 and 90 DAP Spraying of propargite 2 ml/lit at the time of sucking pest incidence (twice with 7 days interval)	Rabi 2010	97.86 (Low)	4.8 (Medium)	90.8 (Medium)	Tomato
2	Multiplier	Irrigated	Rabi	Multiplier	Co(on)5	-	ICM	Seed treatment with	Rabi	22.5	16.8	310.3	Paddy,

	onion		2010	onion				Azospirillum @ 200 g / kg Application of VAM @ 1 kg / sq.m of nursery	2009				onion
3	Small onion	Irrigated	Rabi 2010	Small onion	Co-4	-	ICM	Bulb treatment with <i>T.viride</i> @4g/kg of bulb & <i>Pseudomonas</i> @ 10g/kg of bulb. Soil application of <i>Azospirillum</i> @ 2 Kg/ha, <i>Phospobactreia</i> 2 kg/ha <i>T.Viride</i> 2.5kg/ha and VAM 12.5Kg/ha Soil application of MN mixture @ 6.25 Kg/ha. Basal application of ZnSO <sub>4</sub> @ 25Kg/ha. Spraying of Novaluron @ 1ml/lit during pest incidence Spraying of Chlorothalonil @ 1g / lit 2 times	Rabi 2010	82.88 (Low)	5.11 (Medium)	81.6 (Medium)	Small onion
<b>Fruits</b>													
1	Acidlime	Irrigated	Rabi 2010	-	PKM-1	-	Growth hormone application	Spraying of 0.1% Brassinolides + Foliar spraying of ZnSO <sub>4</sub> (0.5%), MnSO <sub>4</sub> (0.5%) and Urea (0.1%) 2times		175.6	12.3	242	Cotton, groundnut

## 5.B. Results of Frontline Demonstrations

### 5.B.1. crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Cereals	BPH management in paddy	ADT 45	-	Irrigated condition	10	5	49.17	45.00	47.03	38.12	31.57	7,577.50	30,569.50	22,992.00	2.25	10,000.54	24,778.00	14,777.46	1.65
Chillies	ICM in chillies	KKM(Ch)1	-	Irrigated	10	2	27.2	25.3	26.3	21.8	20.64	51,456.00	1,18,350.00	66,894.00	2.30	46,941.00	98,100.00	51,159.00	2.08
Multiplier onion	Cultivation of multiplier onion through seeds	Co(on)5	-	Irrigated	10	5	170.75	146.25	159.38	105.08	51.67	45,207.00	1,27,504.00	82,297.00	2.82	38,574.00	84,064.00	45,490.00	2.18
Acidlime	Fruit drop management in acidlime	PKM-1	-	Irrigated	10	5	23.33	19.28	21.63	17.44	24.03	22,793.00	54,075.00	31,282.00	2.37	21,713.00	43,600.00	21,887.00	2.01
Small onion	ICM in small onion	Co-4	-	Irrigated	20	4	142	120	132.95	105.7	25.78	40,093.00	1,06,360.00	66,267.00	2.65	38,883.00	84,560.00	45,677.00	2.17
Fodder cowpea	Popularization of new improved fodder cowpea	Co (FC) 8	-	Irrigated	12	1	164.2	143.2	155.9	120.6	29.27	60,816.00	31,180.00	20,364.00	2.88	10,868.00	24,120.00	14,252.00	2.21
Fodder	Fodder bank (Cereal + pulse crop)	Co4 Guinea grass Cowpea Co(Fc 8) Hedge cucurme	-	Irrigated	10	1.0	3900 3400 195 1180	3350 2810 126 1018	3625 3105 160.5 1099	Sorghum Co27 390 --	-	38,500.00	2,30,625.00	1,92,125.00	5.9	12,100.00	39,000.00	26,900.00	3.22

### Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/ diseases etc.)

Name of the technology	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	Demo	Local
BPH management in paddy	No. of hills / m <sup>2</sup>	32.10	30.70
	No. of tillers / hill	68.72	48.21
	No. of BPH / hill before spray	11.96	13.20
	No. of BPH / hill after spray	1.25	14.25
	% nymphs of pest incidence	2.32	16.70
	B:C ratio	2.25	1.65
	ICM in chillies	Fruit yield / plant	0.053
Fruit setting		142.29	129.88
Cultivation of multiplier onion through seeds	No of plant/sq.m	25.8	23.4
	No of bulbs/plant	6.4	6.2
Fruit drop management in acidlime	No of fruit dropped before treatment	3.86	3.79
	No of fruit dropped after treatment	0.74	3.65
	Reduction percentage	80.83	3.69
	Fruit weight	65.28	58.4
ICM in small onion	No.of bulblets/plant	6.2	5.9
	Bulb weight ./ plant	21.6	18.8
Fodder bank (Cereal + pulse crop)		<b>Palatability%</b>	





Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

**Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any

#### 5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m <sup>2</sup> }	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)					
					Demo				Check if any	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A											
Oyster mushroom																		
Button mushroom																		
Vermicompost																		
Sericulture																		
Apiculture																		
Others (pl.specify)																		

\* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

\*\* BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

#### Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Local

### 5.B.5. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check			Gross cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
CRIDA groundnut pod stripper	30,000	Separating the groundnut pods by using groundnut stripper	20	10	14.00	34.00	58.8	1620	28,760	36,720	7,780	1.28	30,560	36,720	6,160	1.20
Modified Coconut climber	5500	Climbing coconut trees with modified coconut climber	5	5	11.92	18.70	66.60	2618	NA							
Mini portable sprinkler	30000	Mini portable sprinkler	38	15	Trial under progress											
Popularization of incubator	30000	Popularization of incubator	1	50	Hatchability %		% of increase	NA	1200	3400	2200	2.83	1400	1600	200	1.14
					Demo	Check										
					92.5	79	17.08									
Feed mixing unit	25000	Preparation of low cost concentrate feed for dairy cows	1		Milk Yield (lt / cow) %		% of increase	NA	1400	4300	2900	1:3.07	1200	2800	1600	1:2.33
					Demo	Check										
					14.5	8.2	43.4									

### Data on additional parameters other than labour saved (viz., reduction in drudgery, time etc.)

Data on other parameters in relation to technology demonstrated			
	Parameter with unit	Demo	Local
CRIDA groundnut pod stripper	Time (hours / ha)	112(41.2%)	272
	Cost (Rs./ha)	1260(41.2%)	3060
	Damage to pods	3 kg damaged / 100 kg (3%)	-
	Stripping efficiency	16 kg / hour	6 kg / hour
Modified Coconut climber	Pulse (beats/m)	61	69
	Time (hrs / ha)	56.10	93.50
	Heart beats/m	135	153
Preparation of low cost concentrate feed for dairy cows	Inter-calving period	14	65
Popularization of incubator among SHG members	Livability (%)	98	76

## 5.B.6. Cotton

### 5.B.6.1. Summary of demonstrations conducted under FLD cotton

Sl. No.	Category	Technology Demonstrated	Variety	Hybrid	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
						Proposed	Actual	SC/ST	Others	Total	
	Production Technology	<ul style="list-style-type: none"> <li>❖ Popularization of Long staple MRC 7918 BGII Bt.</li> <li>❖ Seed treatment with <i>Azospirillum</i> and <i>phosphobacteria</i> @ 3 pkts each and soil application of <i>Azospirillum</i> and <i>phosphobacteria</i> @ 10 pkts each /ha enrichment with FYM.</li> <li>❖ STL based fertilizer application</li> <li>❖ Application of micronutrient mixture 12.5 kg /ha as basal</li> <li>❖ Maintaining optimum plant population</li> <li>❖ Spraying of KNO<sub>3</sub> 2% at 40 and 70 DAS</li> <li>❖ Foliar spray of TNAU Cotton Plus @ 2.5kg/acre at flower and boll formation stage.</li> <li>❖ Spraying of growth hormone NAA 40 ppm (Planofix @ 4 ml in 4.5 lit of water ) at 45 and 60 DAS</li> <li>❖ Spraying of NSKE 5% (25 kg of NSKE + 500 gram of kadhi soap) followed by Imidacloprid 70WS @ 7.5 ml / 10 lit of water during pest incidence at two times.</li> <li>❖ Setting up of yellow sticky trap @ 12 nos / ha</li> <li>❖ Release of mealy bug parasitoids <i>Anagyrus Locki</i>, <i>Pseudoleptimestrax</i>, <i>maxicana</i> <i>Acerophagus papayae</i> @ 100 nos each</li> <li>❖ Above ETL Foliar spraying of Profinophos @ 2 ml / lit of water 2 times during mealy bug incidence.</li> <li>❖ Nipping at 18-21th Node.</li> </ul>	-	MRC7918 Bt BG II	Kharif 2010	20	20	18	32	50	Nil
	IPM										
	Farm Implements										

### 5.B.6.2 Production technology demonstrations

#### Performance of demonstrations

Farming situation	Technology Demonstrated	Area (ha)	No. of demo.	Variety	Hybrid	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)				Economics of local check (Rs./ha)			
						Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Rainfed	<ul style="list-style-type: none"> <li>❖ Popularization of Long staple MRC 7918 BGII Bt.</li> <li>❖ Seed treatment with <i>Azospirillum</i> and <i>phosphobacteria</i> @ 3 pkts each and soil application of <i>Azospirillum</i> and <i>phosphobacteria</i> @ 10 pkts each /ha enrichment with FYM.</li> <li>❖ STL based fertilizer application</li> <li>❖ Application of micronutrient mixture 12.5 kg /ha as basal</li> <li>❖ Maintaining optimum plant population</li> <li>❖ Spraying of KNO<sub>3</sub> 2% at 40 and 70 DAS</li> <li>❖ Foliar spray of TNAU Cotton Plus @ 2.5kg/acre at flower and boll formation stage.</li> <li>❖ Spraying of growth hormone NAA 40 ppm (Planofix @ 4 ml in 4.5 lit of water ) at 45 and 60 DAS</li> <li>❖ Spraying of NSKE 5% (25 kg of</li> </ul>	20	50	-	MRC 7918 BG Bt II	26.11	18.28	42.84	64262.50	200942.56	136680.06	3.12	55000.00	140682.88	85682.88	2.36



#### 5.B.6.4 Demonstrations on farm implements

Name of the implement	Area (Ha)	No. of Demo.	Name of the technology demonstrated	Labour requirement for operation (Rs./ha)		
				Demo	Local check	% change
<b>Total</b>						

#### 5.B.6.5 Extension Programmes organized in Cotton Demonstration Plots

Extension activity	No. of Programmes	Participants			SC/ST		
		Male	Female	Total	Male	Female	Total
Consultancy	19	115	7	122	2	1	3
Conventions	5	80	3	83	6	2	8
Demonstrations	13	204	54	258	7	2	9
Diagnostic surveys	5	11	0	11	2	1	3
Exhibition	1	260	50	310	18	12	30
Farmer study tours	0	0	0	0	0	0	0
Farmers Field school	0	0	0	0	0	0	0
Field Days	1	30	15	45	18	5	23
Field visits	45	45	0	45	0	0	0
Gram sabha	0	0	0	0	0	0	0
Group discussions	3	48	10	58	0	0	0
Kisan Gosthi	0	0	0	0	0	0	0
Kisan Mela	0	0	0	0	0	0	0
Training for Extension Functionaries	2	29	14	43	23	2	25
Training for farmers	9	221	22	243	74	7	81
Viedo show	3	158	19	177	0	0	0
Newspaper coverage	16	Mass					
Popular articles	5	Masss					
Publication	3	Mass					
Radio talks	1	Mass					
T.V. Programme	1	Mass					
Others (Pl.specify)	0						
Scientist visit with department of agricultural officers	3	28	0	28	0	0	0
Lecture delivered	2	122	29	151	0	0	0
Seminar	1	290	114	404	0	0	0
Extension literature distributed	3	136	25	161	0	0	0
Cotton farmers visit to KVK	35	35	0	35	0	0	0
SMS Alert messages	21	800	0	800	0	0	0
Radio announcement	12	Mass	0				
<b>TOTAL</b>	<b>209</b>	<b>2612</b>	<b>362</b>	<b>2974</b>	<b>150</b>	<b>32</b>	<b>182</b>

### 5.B.6 Technical Feedback on the demonstrated technologies on all crops / enterprise

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Fodder	Popularization of fodder bank at village level	The multicut of the fodder crops and establishment of fodder bank will ensure the availability of greens throughout the year and help us sustainability of dairy sector.
2.	Cumbu	Popularization of new variety in cumbu	Under progress
3.	Acidlime	Fruit drop management in acidlime	Immature fruit drop was drastically reduced in trees applied with micro-nutrients and growth regulators. Proper nutrient management and pruning techniques have to be adopted for obtaining good yield in acidlime.
4.	Small onion	ICM in small onion	Heavy rain fall during bulb formation stage favours purple blotch disease and it was difficult to control. Indiscriminate use of pesticides can be minimized by developing resistance varieties.
5.	Multiplier onion	Cultivation of multiplier onion through seeds	Though the germination of the seed is good much care had to be taken to maintain the population of seedlings. Raised bed nursery was comparatively better than flat bed nursery The storability of the bulb may be increased for wider adoption
6.	Paddy	BPH management in paddy	<ul style="list-style-type: none"> <li>➤ Due to use of <i>Beavaria bassiana</i>, the population of BPH were minimized and the incidence was reduced upto 2.32% and also egg nymphs were controlled at early stages itself upto 1.2 nos .</li> <li>➤ The no of spray also reduced</li> <li>➤ No hazards to human being and natural enemies in rice ecosystem</li> </ul>
7.	Groundnut	Separating the groundnut pods by using groundnut stripper	Since the dried leaves along and impurities mixed with the carnal during stripping. An exhauster fan may be attached to winnow the dried leaves and impurities
8.	Chillies	ICM in chillies	The demonstrated plot performed better in terms of growth and yield character than the check plot. This might be due to timely application of fertilizer especially micronutrient application of growth regulator reduced the flower drop and increased the fruit set.
9.	Goat	Improving the productivity of goat	The demonstrated goat show higher conception rate, reduced kidding interval, higher weight gain in kids due to supplementation of minerals & proper deworming.
10.	Turkey	Popularization of new variety turkey Beltsville small white	Since the introduction of improved variety of turkeys attain higher weight gain in a short duration and shows better livability percentage than desibirds.
11.	Poultry	Popularization of new variety Rhodo white	Due to improved variety it show overall performance in terms of better weight gain (Upto 2.18 Kg) within a short period, higher egg production & better hatchability & the weight of the egg is also high compared to local breeds.
12.	Dairy	Preparation of low cost concentrate feed for dairy cows	The preparation of low cost concentrate feed & supplementation to dairy cows helps to improve the milk yield of the animal. The fat percentage, SNF are also high in the concentrate supplemented animal. The intercalving period post partum, anestrus problems and metabolic disorders problem viz. calcium deficiency, ketosis, grass tetany has been reduced marginally.
13.	Poultry	Popularization of incubator among SHG members	The setting of egg in the incubator yields more hatchability, better livability of chicks.
14.	Goat	Popularization of salt lick mineral cake for goats	Since the saltlick mineral cake supplements overall demands of goat the overall production is also improved in

			terms of better kids weight gain, reduced kidding interval, more no of triplets and disease resistance for majority of goat disease are also improved.
15.	Coconut	Modified Coconut climber	Since fixing the climber on the tree is time consuming and difficult needs further modification for each fixing on 100 tree.
16.	Groundnut, Maize	Mini portable sprinkler	Under progress
17.	Cotton	Cotton production technology	The Bt cotton production technologies showed high yield of 42.84% than the local check. No. of spraying also reduced upto 5%. The average no of bolls( ), squares( ), also increased. The pest incidence level was very low when compared to local check.
18.	Sesamum		Under progress
19.	Blackgram		Under progress
20.	Fodder cowpea	Popularization of fodder cowpea	The cowpea is rich in protein and high palatability compare to other feeds help the animal to yield animal and reduce the incidence of reproductive problem in dairy cows

#### 5.B.6.7 Farmers' reactions on specific technologies

S. No	Crop / Enterprise	Name of the technology demonstrated	Feed Back
1.	Fodder	Popularization of fodder bank at village level	The establishment of fodder bank at village level, the farmers can feed different varieties of fodder crops to the animals and also it makes available of different fodder crops throughout the year.
2.	Cumbu	Popularization of new variety in cumbu	Under progress
3.	Acidlime	Fruit drop management in acidlime	In the treated trees, fruits were bigger in size and juice content also more. Immature fruit drop was considerably reduced. Foliar spraying was easier in the fields which were pruned periodically where as it was difficult in unpruned trees.
4.	Small onion	ICM in small onion	Bulb treatment was very much effective. Untreated plots shown pink root symptom where as it was absent in treated plots. The bulbs were bigger in size and color also good in treated plots.
5.	Multiplier onion	Cultivation of multiplier onion through seeds	Bulbs obtained were bigger in size and yield also good. Shortability of their variety has to be increased for marketing it during peak period
6.	Paddy	BPH management in paddy	During the demonstration, farmers said that we were unknown about treatment with bioagents and identification of BPH adult symptoms and its damages. Foliar spraying of <i>Beauveria bassiana</i> at early stages of the crop. The BPH eggs, nymphs, adults were controlled thoroughly. This technology was very effective against BPH and also ecofriendly safe.
7.	Groundnut	Separating the groundnut pods by using groundnut stripper	The farmers first time using groundnut stripper. They felt that it will reduce the labour required for groundnut stripping At the same time. It could be handled without any technical skill
8.	Chillies	ICM in chillies	For the first time the farmers practiced seed treatment in chillies with biofertilizers. The growth regulator also applied for the first time.
9.	Goat	Improving the productivity of goat	The farmers were aware about the importance of deworming, supplementation of mineral & vitamins overall performance of goat. The farmers were also unaware when to deworming & how many times deworming should be given. They were realized the effectiveness of deworming & supplementation of minerals in the animals.



10.	Turkey	Popularization of new variety turkey Beltsville small white	Fast weight gain obtained by this turkey were good compared to their locally available desi turkeys.
11.	Poultry	Popularization of new variety Rhodo white	Farmers expressed happiness after seeing their birds attained higher weight gain in a shorter period time, no mortality or reduced percentage of mortality, more no of eggs, better size & more weight.
12.	Dairy	Preparation of low cost concentrate feed for dairy cows	Most of the farmers opined that supplementation of concentrate feeds yields more milk during the period, and reduce the intercalving period, anestrus problem, reduced incidence of frequently occurring metabolic diseases.
13.		Popularization of incubator among SHG members	More hatchability & better livability than the conventional method of hatching.
14.	Goat	Popularization of salt lick mineral cake for goats	Better conception rate, better weight gains and less incidence of reproductive problems.
15.	Cowpea	Popularization of fodder cowpea	Due to high palatability of this field, the animal consumes more feed without any wastages. It helps us to get more quality and quantity of milk
16.	Coconut	Modified Coconut climber	It is easy to climb the tree with the help of coconut climber, but it is somewhat complicated to fix the climber for every tree. The fixation of climber on trees may be made easier.
17.	Groundnut, maize	Mini portable sprinkler	Under progress
18.	Cotton	Cotton production technology	The farmers were realized the effectiveness of various demonstration technologies in their field and they assured to following technologies incoming season. And also they have analysed the yield and cost of pesticide sprayed
19.	Sesamum		Under progress
20.	Blackgram		Under progress

#### 5.B.6.8 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants
1	Field days	17	293
2	Farmers Training	30	655
3	Media coverage	19	Mass
4	Training for extension functionaries	2	62

