

Achievements of Frontline Demonstrations

A.. Details of FLDs implemented during 2012-13

Sl. No.	Crop	Thematic area	Technology Demonstrated@	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Winter rice	Crop production	Cultivation practices of paddy with var. swarna Sub-1 under low land water logged condition	Kharif-2012	4.0	5.2	6	10	16	
2.	Mustard	Crop diversification	Improved agro-techniques for mustard cultivation(Var:NC-1)	Rabi-2012	5	5.63	17	20	37	
3.	Lentil	Crop diversification	Improved agro-techniques for lentil cultivation(Var:Subrata)	Rabi-2012	3.0	3.0	6	22	28	
4.	Sesame	Crop diversification	Improved agro-techniques for sesamecultivation(Rama)	Summer-2012	6.0	6.0	17	40	57	
5.	Sesame	Crop diversification	Improved agro-techniques for sesame cultivation(Rama)	Summer-2013	8.0	8.0	13	35	48	
6.	Groundnut	Crop diversification	Improved agro-techniques for groundnut cultivation(Var:TAG-24)	Summer-2012	2.0	2.0	6	14	20	
7.	Groundnut	Crop diversification	Improved agro-techniques for groundnut cultivation(Var:TAG-24 and TG-37A)	Summer-2013	4.0	4.0	4	18	22	
8.	Blackgram	Crop diversification	Improved agro-techniques for Blackgram cultivation(Var:WBU-108)	Kharif-2012	2.0	1.7	5	10	15	Non availability of seed
9.	Greengram	Crop diversification	Improved agro-techniques for Greengram cultivation(Var:Samrat)	Summer-2013	2.0	2.0	3	12	15	
10.	Elephant foot yam	Crop diversification	Improved agro-technique of elephant foot yam cultivation	Summer, 2012	-	0.16	4/2	14	20	
11	Cauliflower	Crop diversification	Improved agro-technique of early cauliflower (CLR-1008) cultivation	Kharif,2012	0.27	0.27	3/1	6	10	
12	Turmeric	Crop diversification	Improved agro-technique of Suguna Variety of turmeric cultivation	Pre kharif-kharif,2012	0.13	0.13	1/1	5	7	-
13	Tomato	Crop diversification	Improved agro-technique of Tomato cultivation	Ravi,2012	1.00	1.00	6/0	4	10	
14	Betelvine	Nutritional management	Importance of balanced fertilization of betel vine with scientific management practices	Kharif,2012	-	2.00	4/3	23	30	
15	Brinjal	Crop diversification	Improved agro-technique of brinjal cultivation	Ravi,2012	0.13	0.13	0/0	6	6	
16	Cabbage	Crop diversification	Improved agro-technique of cabbage cultivation	Ravi,2012	0.50	0.50	4/0	6	10	
17	Elephant foot yam	Crop diversification	Improved agro-technique of elephant foot yam cultivation	Summer, 2013	-	0.07	1/0	4	5	
18	Turmeric	Crop diversification	Improved agro-technique of Suguna Variety of turmeric cultivation	Pre kharif-kharif,2013	0.13	0.13	1/1	9	11	-
19	Summer rice	Management of Blast disease	Seed treatment and protective measures against blast disease	Rabi-Summer, '11-'12	2.0	2.73	2	6	8	-

20	Summer rice	Management of Yellow Stem Borer	Protective measures against yellow stem borer	Rabi-Summer, '11-'12	4.0	5.73	15	28	43	-
21	Sesame	Management of pod borers	Protective measures against pod borers	Summer, 2012	2.0	0.53	5	0	5	The incidence of pod borer was less and below ETL
22	Winter rice	Management of sheath blight disease	Protective measures against sheath blight	Kharif, 2012	2.0	2.0	1	8	9	
23	Betel vine	Management of Phytophthora rot	Soil treatment against Phytophthora rot	Kharif, 2012	-	2.0	3	25	28	
24	Black gram	Management of aphid	Protective measures against aphid	Kharif, 2012	-	2.0	2	11	13	
25	Potato	Management of Late Blight	Integrated Disease Management of late blight	Rabi, 2012	2.0	2.0	3	12	15	
26	Dolichos bean	Management of aphid	Protective measures against aphid	Rabi, 2012	-	6.67	4	40	44	
27	Mustard	Management of aphid	Protective measures against mustard aphid	Rabi, 2012	2.0	2.0	2	13	15	
28	Summer rice	Management of Blast disease	Seed treatment and protective measures against blast disease	Rabi-Summer, '12-'13	2.0	7.7	11	11	22	-
29	Summer rice	Management of Yellow Stem Borer	Protective measures against yellow stem borer	Rabi-Summer, '12-'13	2.0	3.87	17	12	29	
30	Winter paddy	INM	Micronutrient fertilization (Zn)	Kharif-2012	2.0	3.0	13	10	23	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Initial (N:P ₂ O ₅ :K ₂ O kg/ha)			Status of soil(Final) (N:P ₂ O ₅ :K ₂ O kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
Winter paddy	Kharif-2012	Rainfed	Silty clay loam	245	34	220	222	25	205	Sesame	02.08.12-05.08.12	08.11.12 to 12.11.12	1310	32
Mustard	Rabi-2012	Irrigated	Silty clay loam	227	26	187	221	25	183	Winter rice	05.11.12-10.11.12.	08.02.13 to 13.02.13	12	1
Lentil	Rabi-2012	Irrigated	Silty clay loam	232	28	192	234	29	188	Winter rice	01.11.12-07.11.12	25.02.13 to 28.02.13	12	1
Sesame	Summer-2012	Irrigated	Sandy loam	240	32	225	229	30	207	Mustard	01.03.12 to 05.03.12	25.05.12 to 28.05.12	0	0
Sesame	Summer-2013	Irrigated	Sandy loam	235	29	222	-	-	-	Mustard	04.03.13-09.03.13	The crop is in the field		
Groundnut	Summer-2012	Irrigated	Sandy loam	308	36	226	315	34	222	Winter rice	01.02.12 to 04.02.12	15.05.12 to 19.05.12	0	0
Groundnut	Summer-2013	Irrigated	Sandy loam	296	37	225	-	-	-	Winter rice	30.01.13-03.02.13	The crop is in the field		
Blackgram	Kharif-	Rainfed	Silty	228	26	195	232	22	180	Sesame	27.08.12-	14.11.12	605	21

	2012		clay loam								29.08.12	to18.11.12		
Greengram	Summer-2013	Irrigated	Silty clay loam	242	33	224	-	-	-	Mustard	01.03.13-03.03.13	The crop is in the field		
Elephant foot yam	Summer	Irrigated	Sandy loam							Elephant foot yam/leafy vegetables	Mid March-Mid April	Jan-Feb	1700	55
Cauliflower	Kharif	Irrigated	Sandy clay loam							Cucurbits, leafy vegetables	Mid June	Mid Sept	550	18
Turmeric	Pre kharif-kharif	Irrigated	Sandy loam							Turmeric/Leafy vegetables (Amaranthus, leafy jute etc)	April-May	Jan-feb		18
Tomato	Ravi	Irrigated	Sandy clay loam							Cucumber, winter Paddy, ridge gourd	Mid Nov	Jan-Feb		
Betelvine	Year round	Irrigated	Sandy clay loam							Betelvine	Old boroj	Round the year(specially during and after rainfall)		
Brinjal	Rabi-Summer	Irrigated	Sandy clay loam							Early cabbage/cauliflower, leafy vegetables	Oct-Nov	Jan-March	550	
Cabbage	Ravi	Irrigated	Sandy clay loam							Cucurbitaceous crops	Oct-Nov	Jan-Feb		
Elephant foot yam	Summer	Irrigated	Sandy loam							Elephant foot yam/leafy vegetables	2 nd -3 rd wk of March	Not harvested		
Turmeric		Irrigated	Sandy loam							Turmeric/Leafy vegetables (Amaranthus, leafy jute etc)	April-May	Jan-feb		
Summer rice	Rabi-Summer 2011-12	Irrigated	Silty clay to clay	233	12	192				Winter Rice	06.02.12-11.02.12	31.05.12-04.06.12		
Summer rice	Rabi-Summer 2011-12	Irrigated	Silty clay to clay	231	12	193				Winter Rice	09.02.12-13.02.12	03.06.12-09.06.12		
Sesame	Summer, 2012	Irrigated	Sandy loam	256	14	207				Potato, Mustard	05.03.12-08.03.12	09.06.12-12.06.12		
Winter rice	Kharif, 2012	Rainfed	Sandy clay loam	237	13	188				Sesame	30.08.12-03.08.12	05.11.12-08.11.12		
Betel vine	Kharif, 2012	Irrigated	Silty clay to clay	230	11	192				Betel vine	15.09.11-21.09.11	15.11.12-22.11.12		
Black gram	Kharif, 2012	Rainfed	Silty loam	235	12	190				Summer rice	16.08.12-20.08.12	09.11.12-12.11.12		

Potato	Rabi, 2012	Irrigated	Sandy loam	238	13	205				Winter Rice	02.11.12-09.11.12	04.02.13-08.02.13		
Dolichos bean	Rabi, 2012	Irrigated	Silty clay	248	13	209				Summer vegetables	18.06.12-25.06.12	15.02.13-21.02.13		
Mustard	Rabi, 2012	Irrigated	Sandy loam	245	11	215				Winter Rice	18.11.12-22.11.12	21.02.13-27.02.13		
Summer rice	Rabi-Summer 2012-13	Irrigated	Silty clay to clay	238	14	197				Winter Rice	12.02.13-15.02.13	Standing crop	-	-
Summer rice	Rabi-Summer 2012-13	Irrigated	Silty clay to clay	232	14	196				Winter Rice	08.02.13-12.02.13	Standing crop	-	-
Winter paddy	Kharif-2012	Rainfed	Clay loam and Sandy clay loam	410	27	255	398	23	241	Sesame	19.07.12-02.08.12	24.11.12-30.11.12	1462.5	

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	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
Mustard (Rabi-2012)	Crop diversification	Improved agro-techniques for mustard cultivation	37	5.63	12.2	11.6	5.17	16650	41480	24830	2.49:1	15740	38280	22540	2.43:1
Sesame(Summer-2012)	Crop diversification	Improved agro-techniques for sesamel cultivation	57	6.0	11.0	9.4	17.02	15150	33000	17850	2.17:1	14060	27260	13200	1.93:1
Groundnut(Summer-2012)	Crop diversification	Improved agro-techniques for groundnut cultivation	20	2.0	32.9	26.2	25.6	35375	115150	79775	3.25:1	33600	86460	52860	2.57:1
Sesame(Summer-2013)	Crop diversification	Improved agro-techniques for sesame cultivation	48	8.0	The crop is in the field										
Groundnut (Summer-2013)	Crop diversification	Improved agro-techniques for groundnut cultivation	22	4.0	The crop is in the field										
Sesame	Management of pod borers	Protective measures against pod borers	05	0.53	12.2	11.0	10.91	14250	39040	24790	2.74	13500	35200	21700	2.61
Mustard	Management of aphid	Protective measures against mustard aphid	15	2.0	12.2	10.6	15.09	15750	46360	30610	2.94	15000	40280	25280	2.69

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

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	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
Black Gram (Kharif-2012)	Crop production	Improved package of practices of black gram cultivation (Full Package)	15	1.7	8.2	6.2	32.2	9800	24190	14390	2.46:1	8590	17050	8460	1.98:1
Lentil (Rabi-2012)	Crop diversification	Improved agro-techniques for lentil cultivation	28	3.0	10.9	8.7	25.2	16646	37060	20414	2.22:1	15700	28710	13010	1.82:1
Greengram(Summer-2013)	Crop diversification	Improved agro-techniques for Greengram cultivation(Var:Samrat)	15	2.0	The crop is in the field										
Black Gram	Management of aphid	Protective measures against aphid	13	2.0	8.9	7.8	14.10	13125	31150	18025	2.37	12375	27300	14925	2.21

Other crops

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Dem o	Chec k	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																	
Winter Paddy (Kharif-2012)	Crop production	Cultivation practices of paddy with var. swarna Sub-1 under low ladn water logged condition	16	5.2	53.3	49.9	6.38			30750	50635	19885	1.64:1	30600	44910	14310	1.46:1
Cereals (Summer rice) 2011-12	Management of Blast disease	Seed treatment and protective measures against blast disease	08	2.73	60	52	15.38			45000	84000	39000	1.87	43500	57200	13700	1.31
Cereals (Summer rice) 2011-12	Management of Yellow Stem Borer	Protective measures against yellow stem borer	43	5.73	63	53	18.87			46500	88200	41700	1.90	45000	68900	23900	1.53
Cereals (Winter rice) 2012	Management of sheath blight disease	Protective measures against sheath blight	09	2.0	49	42	16.67			36000	63700	27700	1.77	33750	54600	20850	1.62

Cereals (Summer rice) 2012-13	Managemen t of Blast disease	Seed treatment and protective measures against blast disease	22	7.7	Contd..												
Cereals (Summer rice) 2012-13	Managemen t of Yellow Stem Borer	Protective measures against yellow stem borer	29	3.87	Contd..												
Winter Paddy	INM	Micronutrient fertilization (Zn)	23	3.0	41.9	37.6	11.44			30375	47598	17223	1.57: 1	28947	40125	11178	1.44
Vegetable crops																	
Elephant foot yam	Crop diversificati on	Improved agro- technique of elephant foot yam cultivation	20	0.16	549	300	83.00			199650	549000	349350	2.75	181500	450000	268500	2.48
Cauliflower	Crop diversificati on	Improved agro- technique of early cauliflower(Var . CLR-1008) cultivation	10	0.27	172.5	160	7.81			117975	281250	163275	2.38	101197.5	187500	86302.5	1.85
Potato	Managemen t of Late Blight	Integrated Disease Management of late blight	15	2.0	380	290	31.03			97500	190000	92500	1.95	87750	145000	57250	1.65
Dolichos bean	Managemen t of aphid	Protective measures against aphid	44	6.67	290	250	16.00			90000	290000	200000	3.22	78750	212500	133750	2.70
Tomato	Crop diversificati on	Improved agro- technique of Tomato cultivation	10	1.00	450	300	50.00			75000	157500	82500	2.10	75000	120000	45000	1.60
Brinjal	Crop diversificati on	Improved agro- technique of brinjal cultivation	6	0.13	500	430	16.28			112500	250000	137500	2.22	116250	193500	77250	1.66
Cabbage	Crop diversificati on	Improved agro- technique of cabbage cultivation	10	0.50	500	415	20.48			82500	150000	67500	1.82	82500	124500	42000	1.51

