

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ Demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Ginger	INM	Demonstration on nutrient management in ginger using IISR powder mix-G (Micronutient Mixture)	1	1	0	0	6	4	0	0	6	4	10	
2.	Tomato	Varietal evaluation	Demonstration on wilt resistant hybrid tomato variety ArkaRakshak, Samart	1	1	2	0	3	5	0	0	0	0	10	
3.	Turmeric	INM	Demonstration of Integrated nutrient management in turmeric Growing of turmeric with 75% STBF and 5q of vermi compost and Azotobactore 10kg/ha and PSB 10Kg	0.4	0.4	0	0	5	5	0	0	0		10	
4.	Onion	Varietal	Demonstration of Onion var. BhimaShakti	0.4	0.4	0	0	7	3	0	0	7	3	10	
5.	Potato	INM	Demonstration of Integrated Nutrient Management in potato Kharif 75% RDF+ 25% RDN from FYM +Boron+ Azotobactor+PSB+Potash mobilizing bacteria	0.4	0.4	1	0	0	8	2	0	8	2	10	
6	Paddy	Varietal evaluation	Demonstration of BPH tolerant rice varieties-Hasanta in medium land situation (Hasanta, 145-150 days, medium slender, panicle	1 ha	1 ha	2	0	2	0	6	0	10	0	10	

			length: 27.8 cm; average yield:55-60 q/ha; tolerant to BPH; Adaptability in rainfed& irrigated medium land)												
7	Finger millet	Varital evaluation	Demonstration of Finger millet variety Arjuna in Rainfed upland situation (Arjun (OEB-526)-: Maturity duration 110 days and average yield 20.7q/ha. with moderate resistance to leaf, neck and finger blast and brown seed)	1 ha	1 ha	0	0	3	7	0	0	3	7	10	
8.	Green Gram	INM	Demonstration on Effective use of Bio-fertiliser in green gram. (Seed inoculation of pulse crops with Rhizobium (1.0 -1.5 kg ha-1) treated with 10 g Sodium Molybdate per 25 kg seed, followed by rhizospheric application of 4 kg P SM ha-1 mixed with lime 0.2 L R and FYM 2 t ha-1 increases green gram yield.)	1ha	1ha	0	0	8	2	0	0	8	2	10	
9	Paddy	Drugery reduction	Demonstration of mechanical rice transplanter (transplanted by 4 row rice transplanter)	1ha	1ha	0	0	8	0	2	0	10	0	10	
10	Brinjal		DEMONSTRATION ON MANAGEMENT OF FRUIT AND SHOOT BORER IN BRINJAL Removal of terminal buds showing boreholes	1.00	1.00	0	0	5	5	0	0	5	5	10	

			Set pheromone trap @12/ha Spray Emamectin benzoate @0.4g/litre water												
11	Tomato	Plant protection	DEMONSTRATION ON MANAGEMENT OF WILT IN TOMATO Seedling root dip in Chloramphenicol @ 200 ppm + Bleaching powder @ 25kg/ha placing in holes 10 days before planting+ Bleaching powder @ 25kg/ha through irrigation water at 30 DAT and 45 DAT	1.00	1.00	0	0	7	3	0	0	7	3	10	
12	Maize	Plant protection	DEMONSTRATION ON MANAGEMENT OF FALL ARMY WORM IN MAIZE CROP Spray Azadiractin 1500ppm @5 ml/litre of water at 5% damage followed by spraying of Thiomethoxam 12.6% + Lambda Cyahalothrin 9% @ 0.25ml/litre of water	1.00	1.00	0	0	7	3	0	0	7	3	10	
13	Oyster mushroom	Plant protection	Demonstration on oyster mushroom cultivation	-	-	0	0	7	3	0	0	7	3	10	
14	Gliricidia (Green Manure)	Agroforestry	Gliricidia as green manuring in agricultural field bund	1	1	4	0	6	0	0	0	10	0	10	
15	Eucalyptus	Agroforestry	Gall insect management in Eucalyptus	1	1	3	1	3	3	0	0	6	4	10	
16	Bamboo	Agroforestry	Bambusa Vulgaris for doubling farmers income in EGHL zone of Koraput	1	1	4	0	6	0	0	0	4	6	10	
18	Common carp	Fishery	DEMONSTRATION ON 6 SPECIES COMPOSITE CARP CULTURE	1.5	1.5	4	0	6	0	0	0	4	6	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Paddy	Kharif	Rainfed medium land	Red soil	220-350	19-30	185-220	Rice	28.06.2020	1 st wk of Nov 2020		
Finger millet	Kharif	Rainfed upland	Red soil	220-350	19-30	185-220	Niger	Last wk of june 2020	2 nd wk of oct2020		
Green Gram	Summer	Irrigated medium land	Red soil	220-350	19-30	185-220	Rice	2 nd wk of jan 2021	continuing		
Paddy	Summer	Irrigated medium land	Red soil	220-350	19-30	185-220	Paddy	2 nd wk of jan 2021	continuing		
Onion	Rabi	Irrigated medium land	Red	220-350	19-30	185-220	Rice	19.10.20	15.02.20		
Potato	Kharif	Rainfed upland	Red	220-350	19-30	185-220	Fallow	27.08.20	5.11.20		
Gliricidia	Kharif	Rainfed upland	Red	220-350	19-30	185-220	Fallow	3.7.20	29.9.20		
Eucalyptus	Kharif	Rainfed upland	Red	220-350	19-30	185-220	Eucalyptus	25.6.19	20.3.21		
Bamboo	Kharif	Rainfed upland	Red	220-350	19-30	185-220	Fallow	17.7.20	continuing		
Maize	Kharif	Rainfed	Red	220-	19-30	185-220	Fallow	15.06.20	10.09.20		

		upland		350							
Brinjal	Kharif	Rainfed upland	Red	220-350	19-30	185-220	Fallow	20.08.20	5.11.20		
Oyster mushroom	Rabi	Homestead	-	220-350	19-30	185-220	-	10.01.21	12.02.21		

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

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
Total															

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

** BCR= GROSS RETURN/GROSS COS

Pulses

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

Green Gram	INM	Demonstration on Effective use of Bio-fertiliser in green gram. (Seed inoculation of pulse crops with Rhizobium (1.0 -1.5 kg ha-1) treated with 10 g Sodium Molybdate per 25 kg seed, followed by rhizospheric application of 4 kg P SM ha-1 mixed with lime 0.2 L R and FYM 2 t ha-1 increases green gram yield.)	10	1	continuing											
	Total															

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

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Other crops

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		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	Varietal evaluation	Demonstration of BPH tolerant rice variety Hasanta in medium land situation	10	1	46.5	41.6	11.7	No of panicles/m2-208 No of hoppers/tiller-5.6	No of panicles/m2-173 No of hoppers/tiller-1	45,270	86,025	40,749	1.9	45,270	76,960	31,689	1.7
Finger millet	Varietal evaluation	Demonstration of Finger millet variety Arjuna in Rainfed upland situation	10	1	12.8	10.6	20.7	No of tillers/plant-2.1 No of fingers/ear-6.8	No of tillers/plant-1.5 No of fingers/ear-4.6	20,200	38,400	18,200	1.9	20,200	31,800	11,600	1.57

Ginger	Horticulture	Demonstration on nutrient management in ginger using IISR powder mix-G (Micronutrient Mixture)	10	1	112.7	102	10.49	Wt of Clum/pt 165g	Wt of Clum/pt 110g	196400	281950	85550	1.4	193400	255000	12800	1.3
Tomato	Horticulture	Demonstration on wilt resistant hybrid tomato var. Arkasamart	10	1	360.1	280.0	28.60	No. of fruits /pt 106.8	No. of fruits /pt 87	190000	540150	350150	2.84	160000	420000	260000	2.62
Turmeric var. Roma	Horticulture	Demonstration of Integrated nutrient management in turmeric Growing of turmeric with 75% STBF and 5q of vermi compost and Azotobactore 10kg/ha and PSB 10Kg	10	0.4	218.4	150.5	45.11	Wt. of rhizome /pt 218.4	Wt. of rhizome/pt 150.5	95860	302100	206240	3.15	87300	225750	140450	2.6
Potato	Horticulture	Demonstration of Integrated Nutrient Management in potato Kharif 75% RDF+ 25% RDN from FYM +Boron+ Azotobactor+PSB+Potash mobilizing bacteria	10	0.4	179.4	140.5	27.68	Wt. of tuber/pt 179.4	Wt. of tuber/pt140.5	137081	448700	311619	3.27	118898	351250	232352	2.95
Onion	Horticulture	Demonstration of Onion var. Bhimashakti	10	0.4	247.5	210.0	15.15	Wt of bulb 141g	Wt of bulb 110g	105800	247500	253800	3.39	104800	210000	105200	2.00
Tomato	Plant protection	Demonstration on management of wilt in tomato	10	1	250.0	222.5	12.35	5.00 (Percent disease incidence)	13.00 (Percent disease incidence)	80,000/-	2,50,000/-	1,70,000/-	3.1	75,000/-	2,22,500/-	1,47,500/-	2.9
Maize	Plant protection	Demonstration on Management of fall army worm in maize	10	1	72.00	55.00	30.00	7.50 (Percent infestation)	25.00 (Percent infestation)	48000/-	1,08000/-	60,000/-	2.25	41500/-	82,500/-	41,000/-	1.98
Brinjal	Plant protection	Demonstration on management of frui and shoot borer in brinjal	10	1	210.10	160.50	30.9	10.54 (Percent infestation)	25.60 (Percent infestation)	90,042/-	3,15,150/-	2,25,108/-	3.5	83,017/-	2,40,750/-	1,57,733/-	2.9
Glricidia (Green Manure)	Agroforestry	Glarcidia as green manuring in agricultural field bund	10	1	18.4	15.2	21	tillers/plant – 2.2	tillers/plant – 1.8	25,900	55,200	29,300	2.13	23,000	45,600	22,600	1.98
Eucalyptus	Agroforestry	Gall insect management in Eucalyptus	10	1	1000	700	42	Leaf Damage %- 1.75 Galls/leaf Gall - 0.02 Damage Index- 0.04	Leaf Damage %- 84.90 Galls/leaf Gall- 10.66 Damage Index- 905.03	60000	250000	190000	4.1	43000	122000	79000	2.8
Bamboo	Agroforestry	Bambusa Vulgaris for doubling farmers income in EGHL zone of Koraput	10	1	Continue			No of Culms per clump-4 culm height (m)- 8	No of Culms per clump- 2 culm height (m)- 5	-	-	-	-	-	-	-	-

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		Demons Ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	NA																
Cow																	
Buffalo																	
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
Total																	

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

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Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

**** BCR= GROSS RETURN/GROSS COST**

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Apiculture	Management of Nosemosis diseases in Honey bee	10	10	200	112	44			23,440	60,000	36,560	2.56	16,870	33,600	16,730	1.9
Others (pl.specify)																
Total																

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

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Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Demonstration	Check			
4 row rice transplanter	Rice	4 Row rice transplanter	10	1			Labour saving 79%	19man days/ha saved	Cost saving 57%

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

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Demonstration details on crop hybrids

[illegible]

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
-	-	-
-	-	-
-	-	-

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days		3	150	
2.	Farmers Training		23	575	
3.	Media coverage		12		
4.	Training for extension functionaries		4	60	