

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

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.	Green Gram	INM	Demonstration on INM in green gram. (75 % STBF (N:P2O5:K2O @ 18-30-15 Kg/ha) + Seed inoculation with Rhizobium @ 1.5 Kg /ha and seed treatment with Sodium Molybdate @ 10 g / 25 Kg seed and rhizospheric application of 4 Kg PSM /ha + Lime @ 0.2 L R + FYM @ 2 t/ ha)	1ha	1ha	0	0	8	2	0	0	8	2	10		
2.	Niger	INM	Demonstration of integrated nutrient management in Niger (Soil test based fertiliser Recommendation 75% inorganic source (N-P2O5-K2O @ 37-15-15 kg/ha) and 25% organic source (FYM @ 5t/ha) + Lime 0.2 LR (9.25 q CaCO3/ha)	1 ha	1ha	0	0	4	6	0	0	4	6	10		
3.	Paddy	Varietal evaluation	Demonstration of BPH tolerant rice varieties-Hasanta in medium land situation (Hasanta, 145-150 days, medium slender, panicle length: 27.8 cm; average yield:55-60 q/ha; tolerant to BPH; Adaptability in rainfed& irrigated medium land)	1 ha	1 ha	2	0	2	0	6	0	10	0	10		

4.	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	
5.	Tomato	Horticulture	Demonstration on wilt resistant tomato var. Arka Rakshak (High yielding F1 hybrid with triple disease resistance to tomato leaf curl virus ,bacterialwilt,and early blight .Plants are semi determinate with dark green foliar cover..fruits are oblong with light green shoulder.fruits are medium to large size (75-80g) ,deepred ,very firm with good keeping quality(15-20 days) and long transportability. Bred for fresh market andprocessing,Suitable for summer,kharif andrabi seasons.Yields40-50 tons per acre in 140-150 days)	1	1	0	0	4	6	0	0	4	6	10	
6.	Honey Bee	livelihood	Demonstration on Management of bee colonies for enhancing honey production (Provide sugar solution 50:50 ratio in lean period, regular cleaning of bee hive and colony and application of sulphur dust for management of mite, Regular monitoring of presence of bee enemies like wax, moth, mite & sacberood disease)	10 box	10 box	0	0	10	0	0	0	10	0	10	

7.	Broom Grass	Agroforestry	Demonstration on Broom grass for soil and moisture conservation and enhancing rural livelihood (Hilly areas planting in contour lines or on the bunds of terraces at a spacing of 6 x 6 ft is good and about 2500 to 3000 plants are required for one hectare area)	1	1	0	0	5	5	0	0	5	5	10		
8.	Teak+ Aswagandha	Agroforestru	Demonstration on Aswagandha as an intercrop in teak based agroforestry system (Teak (8 x 2 m) in E-W direction + Ashwagandha (30 x 10 cm) (Ashwagandha was taken as intercrops in the plantations in initial 1-5 years with tree pruning of teak plantation to maximize the land utilization.)	1	1	0	0	6	4	0	0	6	4	10		
9.	Glaricidia	Agroforestry	Demonstration of boundry plantation of Glaricidia on field bund (Glaricidia planted with 3 m intervals in the boundary of the spice crop (Ginger). Leaf was applied to field after 3runing of Glaricidia (Nutrient content of leaf (%) on air dry basis N: P2O5: K2O :: 2.76: 0.28: 4.60)	1	1	0	0	10	0	0	0	10	0	10		

10	Honey Bee, Niger	Livelihood	Demonstration on beneficial effect of honey bee on Niger (Installation of Honey bee box @ 5 boxes/ha during flowering time of Niger)	1	1	0	0	10	0	0	0	10	0	10
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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					
Green Gram	Summer	Irrigated medium land	Red soil	220-350	19-30	185-220	Rice	2 nd wk of jan 2021	2 nd wk of march		
Paddy	Kharif	Rainfed medium land	Red soil	220-350	19-30	185-220	Rice	4 th week of June 2021	1 st wk of Nov 2021		
Finger millet	Kharif	Rainfed upland	Red soil	220-350	19-30	185-220	Niger	4 th week of June 2021	2 nd wk of oct20 21		
Niger	Kharif	Rainfed upland	Red soil	220-350	19-30	185-220	Paddy	2 nd wk of August 2021	1 st wk of dec 2021		
Honey Bee	Rabi	RF	Red Soil	-	-	-	-	-	-	-	-
Broom Grass	Kharif	RF	Red Soil	160-210	15-19	215-240	Agave	22.07.2021		1560	-
Teak+ Aswagandha	Kharif	RF	Red Soil	230-360	20-30	198-210	Teak+Fal low	18.07.2021			
Gliricidia	Kharif	RF	Red Soil	220-240	19-24	205-225	Bund are fallow	15.07.2021			
Honey Bee, Niger	Rabi	RF	Red Soil				Niger	25.08.2021			

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
Niger	INM	INM in Niger	10	1	4.2	2.9	44	11000	23100	12100	2.1	9500	15950	6450	1.67
Total			10	1											

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

** BCR= GROSS RETURN/GROSS COST

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	INM in green Gram	10	1	5.7	4.6	23.9	18,500	39,900/-	21,400/-	2.0	17,500	32,200/-	14,700/-	1.8
Total			10	1											

* 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
Paddy	Varietal evaluation	Demonstration of BPH tolerant rice varieties-Hasanta in medium land situation	10	1	45	40.2	12	No of hoppers/tiller -: Nil No of panicles /m2-200	No of hoppers/tiller- 3.2 No of panicles/m2- 200	44,000	87,300	43,300	1.98	44,000	78,000	34,000	1.77
Finger millet	Varital evaluation	Demonstration of Finger millet variety Arjuna in Rainfed upland situation	10	1	6.1	4.8	27	No of tillers/plant- 1.9 No of finger/ear- 6.1	No of tillers/plant- 1.6 No of finger/ear-4.8	19,900/-	37,800	17,900	1.9	18,400/-	31,200	12,800	1.7
Tomato	Horticulture	Demonstration on wilt resistant hybrid tomato variety Arka Rakshak	10	1	3.6	2.8	28.57	3.3	2.8	1,90,000	5,40,150	3,50,150	2.84	1,60,000	4,20,000	2,60,000	2.62
Broom Grass	Agroforestry	Demonstration of broom grass for soil and moisture conservation and enhancing rural livelihood	10	1	12.85	12.00	7.1	45000	30000	33500	77100	43600	2.3	35500	60000	24500	1.7
Teak+ Aswagandha	Agroforestry	Demonstration of Aswagandha as an intercrop in teak based agroforestry system	10	1	420	0	100	49.28	-	8100	23520	15420	2.9	15000	-	-	-

	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	Demonstration on management of bee colonies for enhancing honey production	10	10	200	112	78.57	6	4	23,440	60,000	36,560	2.56	16,870	33,600	16,730	1.9
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		10	10													

* 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	-	-	-	-	-

[illegible]