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.	Paddy	Varietal evaluation	**DEMONSTRATION OF RICE VARIETY KALINGA DHAN-1203** (**Demo-** Rice var. Kalinga Dhan-1203 (ORJ-1135), avg. grain yield-54.2 q/ha, Duration-135 days, Plant height-111 cm, Moderately resistant to sheath rot, BPH, stem borer & leaf folder)	1 ha	1 ha	2	0	2	0	6	0	10	0	10	
2.	Maize	Varietal evaluation	**DEMONSTRATION ON HYBRID MAIZE-KALINGA RAJ (OMH 14-27)** (Hybrid maize [Kalinga Raj (OMH 14-27)], Avg. cob yield– 79.5 q/ha, Duration-92 days, Moderately resistant to (MLB, TLB, Charcoal rot and bacterial stalk rot.)	1 ha	1 ha	0	0	3	7	0	0	3	7	10	
3.	Chilli	Horticulture	Demonstration of AMC for yield enhancement in chilli (Arka Microbial Consortium-A carrier based microbial product containing N fixing, P and Zn solubilising and plant growth promoting microbes. For the main	1	1	0	0	4	6	0	0	4	6	10	

			field application of one acre of land, five kg of AMC can be mixed with 500kg of FYM and applied near the root zone of standing crop)												
4.	Green Gram	INM	**DEMONSTRATION ON EFFICACY OF ORGANIC INPUTS FOR YIELD ENHANCEMENT IN BLACK GRAM (Soil application: Inoculation of 3.5 litres PSB with 100 kg vermicmpost incubating at room temperature for 7 days at 30% moisture and application at the time of sowing)**	1ha	1ha	0	0	8	2	0	0	8	2	10	
5.	Mango + Pine apple	Agroforestry	Mango + Pineapple	10	10	10	-	10				10	10	10	-
6.	Bamboo	Agroforestry	***Bambusa arundinasia***	10	10	10	-	10				10	10	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_2O_5	K_2O					
CROP	SEASON	Farming situation	Soil type	Status of soil (Kg/ha)			Previous Crop	Sowing Date	Harvest Date	Seasonal Rain	No of

		(RF/Irrigated)		N	P_2O_5	K_2O				fall(mm)	Rainy Days
Paddy	Kharif	Rainfed medium land	Red soil	220-350	19-30	185-220	Rice	4th week of June 2022	1st wk of Nov 2022		
Maize	Kharif	Rainfed upland	Red soil	220-350	19-30	185-220	millet	4th week of June 2022	2nd wk of oct2022		
Black Gram	Summer	Irrigated medium land	Red soil	220-350	19-30	185-220	Rice	2nd wk of jan 2022	2nd wk of march 2022		
Chilli	Kharif	Rainfed upland	Red soil	220-350	19-30	185-220	vegetable	2nd wk of August 2022	1st wk of dec 2022		
Mango + Pine apple	Kharif	Rainfed upland	Red Soil	160-210	15-19	215-240		22.07.2022			-
Bamboo	Kharif	Rainfed upland	Red Soil	230-360	20-30	198-210		18.07.2022			

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

* 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
Black Gram	INM	demonstration on efficacy of organic inputs for yield enhancement in black gram	10	1	5.98	4.87	22.79	19,760	39468	19,708	2.00	19,250	32142	12,892	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

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

Maize	Varietal Evaluation	demonstration on hybrid maize-kalinga raj (omh 14-27)	10	1	64.5	55.7	15.8	No of cobs/pant-1.5 Rows/cob-14.2 Seeds/row-30.4	No of cobs/pant-1.4 Rows/cob-13.6 Seeds/row-29.2	53500	120628	67128	2.25	53500	104171	50671	1.95
Rice	Varietal Evaluation	demonstration of rice variety kalinga dhan-1203	10	1	49.89	42.57	17.19	No of EBT/hill-9.2 Grains/panicle-112.4	No of EBT/hill-8.1 Grains/panicle-109.5	45600	101784	56184	2.2	45600	86850	41250	1.9
Chilli	Horticulture	demonstration of amc for yield enhancement in chilli	10	1	68.7	63.9	7.511	No of Fruits/plant-134.3 Length of Fruit-10.2	No of Fruits/plant-101.2 Length of Fruit-6.8	104875	206100	97225	1.96	98875	191700	92825	1.93
Mango + Pine apple	Agroforestry	Mango + Pineapple	10	1		continuing											
Bamboo	Agroforestry	***Bambusa arundinasia***	10	1		continuing											
		Total	50	5													

Other crops

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.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	Backyard	Demonstration of RIR	10	10	3.3	1.2	175	90	50	90	495	405	5.5	50	180	130	3.6
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.
** BCR= GROSS RETURN/GROSS COST

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.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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.
** BCR= GROSS RETURN/GROSS COST

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	10	10	1.9	1.4	36	-	-	35	152	117	4.3	35	112	77	3.2
Button mushroom	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture																
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.
** BCR= GROSS RETURN/GROSS COST

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									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*** 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**

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
Cereals				Demo	Local	%	Gross	Gross	Net	BCR

					check	change	Cost	Return	Return	
Bajra	-	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-	-
Paddy	-	-	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-	-
Castor	-	-	-	-	-	-	-	-	-	-
Mustard	-	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-	-
Soybean	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-	-
Greengram	-	-	-	-	-	-	-	-	-	-
Blackgram	-	-	-	-	-	-	-	-	-	-
Bengalgram	-	-	-	-	-	-	-	-	-	-
Redgram	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Vegetable crops	-	-	-	-	-	-	-	-	-	-
Bottle gourd	-	-	-	-	-	-	-	-	-	-
Capsicum	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-
Tomato	-	-	-	-	-	-	-	-	-	-
Brinjal	-	-	-	-	-	-	-	-	-	-

Okra	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-
Potato	-	-	-	-	-	-	-	-	-	-
Field bean	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Commercial crops	-	-	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-	-	-
Coconut	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-
Fodder crops	-	-	-	-	-	-	-	-	-	-
Napier (Fodder)	-	-	-	-	-	-	-	-	-	-
Maize (Fodder)	-	-	-	-	-	-	-	-	-	-
Sorghum (Fodder)	-	-	-	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	-	-
2	-	-
3	-	-

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	-	-	-	
2.	Farmers Training	-	13	390	
3.	Media coverage	-	1	Mass media	
4.	Training for extension functionaries	-	1	15	