

Results: In TO1 the max gap was observed in Organisational aspect whereas in TO2 technical gap were maximum. In both the groups responded were satisfied about the marketing aspect of the FPOs. As TO1 is performing diversified activities emphasis should be more on strengthening of organisation whereas TO2 shoul focus more on providing technical advisory and guidance for higher profitability and in TO2 the Max Gap was observed in Technical Aspect . Further z test was calculated. The calculated z value is greater than Z table value (level of significance). Hence, the null hypothesis is rejected and there is significant difference between two FPOs regarding the perception of the respondents about performance of FPO in in various aspects.

Mean	36.7	33.7
Variance	34	12.1
Z Calculated	2.87	
Z tab	1.95	

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

[illegible]

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Annual rainfall	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Rice	Kharif2022	Rainfed	Red soil (Sandy loam)	280	9.2	178	Rice	5.7.22	22.11.22	875	48
Maize	Kharif2022	Rainfed		248	7.8	156	Fallow	15.7.22	8/11/22	875	48

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.

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
Rice	INM	Potassium and zinc application for mgt of iron toxicity in rice	10	2.0	45.5	38.6	17.88	47500	88725	41225	1.88	45000	75270	30270	1.67
Maize	Varietal trial	Hybrid Maize variety Kalinga Raj with Line sowing and RDF (120:60:60)	62	4.0	62.8	51.4	22.17	68900	1,23,200	54,300	1.79	65200	100850	35650	1.54

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

Goundnut	Weed Management	Pre-emergence application of Pendimethalin 30% + Imazethyper 2% @ 1.0 kg/ha ready mix fb post emergence application of Quizalfop-p-ethyl @50g/ha at 20 DAS	10	2	17.4	15.1	13.45	37500	101790	64290	2.72	34800	88335	53535	2.54
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

Pulses

Frontline demonstration on pulse crops

[illegible]

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters (Avg. no of fruits/plant)		*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
Tomato	INM	Integrated Nutrient ManagementIn Tomato	10	1.0	305.4	271.2	12.61	63	54	1,38,000	3,66,480	2,28,480	2.66	1,32,000	3,25,440	1,93,440	2.47
Brinjal	INM	INM in Brinjal	10	1.0	360.2	320.4	10.69	83	76	1,40,000	3,60,200	2,20,200	2.57	1,35,000	3,25,400	1,90,400	2.41
Banana	INM	Bunch feeding in banana for yield enhancement	10	2.0	760.5	665.6	14.26	30.3 (Avg. bunch wt in kg)	26.6	2,53,500	9,12,600	6,59,100	3.60	250,000	7,98,720	5,48,720	3.19
	Total		30	4.0													

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																	
Cow																	
Buffalo																	
Poultry	Income generation																
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.)			
					Demo	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps	Integrated fish Farming	IMC yearlings prodn in seasonal ponds. Feeding with mixture of mustard oil cake, De-oiled Rice bran(1:1) & vitamin mineral pre-mix @ 10% of Bio-mass during first month, 8% of the Bio-mass during 2 nd month & 6% of the Bio-mass during 3 rd month	5	5	Yield (ton/ha) 4.87	Yield (ton/ha) 2.25	116			2,78,571	8,77,500	5,98,929	3.15	1,36,800	4,05,000	2,68,200	1.96
		Total	5	5	Yield(ton/ha) 4.87	Yield(ton/ha) 2.25	116			2,78,571	8,77,500	5,98,929	3.15	1,36,800	4,05,000	2,68,200	1.96

* 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	Demonstration of Oyster mushroom for Income generation	10	100 bags	150kg/100 bag	100kg/100bag	50	-	-	4000	12000	8000	3.0	4000	8000	4000	2.0
Paddy straw mushroom	Demonstration of Paddy Straw mushroom for Income generation, using threshed straw	20	100 beds	65kg/100bed	85kg/100bed	30.7	13.0 bio efficiency	12.1 bio efficiency	4500	16250	11750	3.61	5500	21250	15750	3.86

Vermicompost	Demonstration of Vermicomposting, Recommended layer so for organic waste and cow dung in vermitank (using 4' dia cement ring. Release of earthworm @50nos/kg of organic waste	10	20 tanks	8q/1.75m ³ /yr compost yield	3.5/1.75m ³ /yr normal compost	128	Composting cycle 2.5months	Composting cycle 8months	5500	12000	6500	2.18	1300	1500	200	1.15
Apiculture	Regular and periodic bottom board cleaning, maintaining healthy and populous colony ,regular and periodic dearth feeding, removal of old combs and allowing new comb construction, need-based brood comb alteration and need based colony union or division are recommended for scientific beekeeping with <i>Apis-cerana indica</i>	10	10 boxes	Honey yield 3kg/box	-	100	1 colony division/ box/yr	-	850/ Box/yr	2200/ Box/yr	1350	2.59	-	-	-	-
Others (pl. specify)																
Total																

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Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	Nutritional Garden for Nutritional Security of farm families	30	541 Yield (kg/200m ² /season)	241 Yield (kg/200m ² /season)	After Training, Demonstration & Awareness programme the consumption of vegetables increased
	Production of paddy straw Mushroom for income generation using threshed straw	20	130kg/1qt of threshed straw	50kg/1qt of threshed straw	160% increase in production as well as triple the Farmwomen income (from Rs6100/- to Rs.20,800/-)
	Oyster mushroom var.(<i>H. ulmarius</i>) for Income generation	90	185kg/100bag	100kg/100bag	High production of mushroom(185kg/100bag) can be obtained during low temperature(less than 20oC)(December and January) than P.sajorcaju
	Vermicomposting	10	8q/1.75m ³ /year	3.5q/1.75m ³ /year Normal compost	Increase the Income from Rs200/- to Rs6500/-) It is a very easy method for making good quality of compost from farm waste within short (3months)period of time
	Brooding management of Backyard poultry	30	5mortality	15mortality	After brooding of chicks with proper vaccination 66% increase in mortality

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			
Power Sprayer	Paddy	Demonstration of power sprayer for pest management	20	1	4	14	71.4	10 hour	Rs. 420/- per ha

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