

Frontline Demonstrations (FLDs)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
1	Groundnut	Girnar - 4	Varietal	Performance evaluation of Groundnut variety Girnar -4	-Groundnut Seed (Girnar-4) (Quantity: 150 kg pod/ ha @ ₹ 120/- kg) Cost /ha: ₹ 18,000/-	Kharif- 2024	2	5	-No of Pods -Yield (qtl/ha) -B:C ratio (Total Cost: ₹ 36000/-)
2	Wheat	-	Natural farming	Effect of Jivamreet uses in wheat on yield and economics of crop.	Barrel & bucket (₹ 1500/- per demo)	Rabi 2024	2	5	Pod per plant Yield qt/ha B:C ratio (Total cost: 7500)
3	Wheat	GW - 513	Varietal	Performance evaluation of New wheat variety GW-513	Seeds of GW-513 (Quantity: 120 kg with @ ₹ 60/- /kg Cost /ha: ₹ 7200/-	Rabi- 2024	2	5	-Yield qt/ha -B:C ratio (Total Cost: ₹ 14,400/-)
4	Soybean	GJS-4	Varietal	Performance of soybean variety GJS-4 in Kharif season	Soybean seeds (Quantity: 75 kg/ha with @₹. 100/- per kg.) cost 7500/-)	Kharif 2024	2	5	Pod per plant Yield qt/ha B:C ratio (Total cost: 15000)
5	Sorghum	GNJ 1	Varietal	Performance evaluation of new variety GNJ-1 of Sorghum	Sorghum seed (Quantity: 30 Kg/ ha. with @₹.50/- per kg + bio fertilizer NPK 2.5 Ltr/ha. @ ₹ 180/- per ltr. Cost per ha. 1950/-)	Rabi 2024	5	12	Yield (qt/ha) B:C Ratio (Total Cost: 9750)
6	Groundnut	-	INM	Effect of nano boron on yield and nutrients uptake by kharif groundnut	Foliar Application of three sprays of 0.2 % boric acid OR 0.2 % nano boron (20 ml/10 lit water) at 30, 45 and 60 DAS in addition to recommended dose of fertilizers (12.5-25- 50 N-P ₂ O ₅ - K ₂ O kg/ha)	Kharif- 2024	5	12	-Yield Qtl/ha -B:C ratio -(Total Cost: Rs. 13500/-)

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					(Quantity: nano boron 2.25 kg /ha / = cost: Rs. 2700/-) Cost /ha: Rs. 2700/-				
7	Soybean	-	INM	Performance of bio-fertilizer (Mycorrhiza) in soybean crop	Application of 75% RDF(22.5:45:00 N-P ₂ O ₅ -K ₂ O kg/ha) on STV basis + Soil application of Mycorrhiza @ 25 kg/ha + seed treatment with Rhizobium (5-10 g/kg seed) (Quantity: Mycorrhiza 25 kg /ha / = cost: Rs. 1500/- & Rhizobium 1200 g /ha = cost: Rs. 270/-) Cost /ha: Rs. 1770/-	Kharif-2024	5	12	-Yield Qtl/ha -B:C ratio -(Total Cost: Rs. 8850/-)
8	Cotton		INM	Efficacy of multi-micronutrient formulation in improving crop production in Bt Cotton	Foliar Application of micronutrients Grade-IV @ 1% at 45, 60, 75 and 90 DAS in addition to recommended dose of fertilizer (240:50:150 N: P ₂ O ₅ :K ₂ O kg/ha) (Quantity: Multi-micronutrients mixture Grade-IV 15 kg / ha = cost: Rs. 4800/-) Cost /ha: Rs. 4800/-	Kharif-2024	5	12	-Yield Qtl/ha -B:C ratio -(Total Cost: Rs. 24000/-)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo	Parameters identified
9	Chickpea		Nutrient Use Efficiency	Effect of foliar spray of 2% KNO ₃ in chickpea crop	Foliar application of 2% KNO ₃ in Chickpea at Flowering and pod development stage (Quantity: 15 kg/ha with @ Rs 200/- /kg & cost: Rs. 3000/-) Cost /ha: Rs. 3000/-	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -(Total Cost: Rs.15000 /-)
10	Wheat		INM	Effect of potassium and sulphur in Wheat Crop	Application of 60 kg potash with 40 kg sulphur (in form of phospho gypsum)/ha in addition to RDFN:P:K; 120:60:60 kg/ha (Quantity: MOP 100 kg/ha with @ Rs 37/- /kg & cost: Rs. 3700/- and Phosphogypsum 250 kg with @ Rs 2.5/- /kg & cost: Rs. 625/-)Cost /ha: Rs. 4325/-	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -(Total Cost: Rs. 21625/-)
11	Groundnut	-	IDM	Integrated management practices to minimize infection of collar rot and stem rot diseases in groundnut	1. Mancozeb 75 % WP treat seed with 3 gm/kg seed (Quantity: 500 gm / ha & cost: ₹500/-) 2. Trichoderma harzianum 2.5 kg/ha and 250 kg castor cake/ha Furrow application at the time of sowing (Quantity: Trichoderma : 2.5 kg / ha & cost: ₹ 400/- and Castor cake : 250 kg/ha & cost: ₹ 2500/-) Total Cost /ha: ₹ 3400/-	Kharif - 2024	5	12	Yield Qtl/ha -B:C ratio -% Disease infestation (Total Cost: ₹ 17000/-)

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12	Mango	-	IPM	Integrated Management of Fruit fly infestation in mango	1. Methyl Eugenol Traps (Quantity: 15 nos. / ha & cost: ₹2700/-) 2. Deltamethrin 2.8 ec (Quantity: 1.25 ltr / ha & cost: ₹2750/-) 3. Azadirachtin 1500 ppm (Quantity: 5 ltr / ha & cost: ₹2250/-) Total Cost /ha: ₹ 7700/-	Rabi-2024	2	5	Yield Qtl/ha -B:C ratio -% Fruit fly infestation (Total Cost: ₹15400/-)
13	Gram	-	IDM	Application of Carbendazim as seed treatment and Trichoderma and castor cake use as soil application for Wilt management in gram	1. Carbendazim (Quantity: 250 gm / ha & cost: ₹300/-) 2. Trichoderma (Quantity: 7.5 kg / ha & cost: ₹ 1125/-) 3. Castor cake (Quantity: 125 kg /ha & cost: ₹ 2000/-) Cost /ha: ₹ 3425/-	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -% Disease infestation (Total Cost: ₹ 17125/-)
14	Gram	-	IPM	Application of Bio pesticides and insecticides against pod borer management in Gram	1. HaNPV (Quantity: 750 ml / ha & cost: ₹600/-) 2. Chlorantraniliprole 18.5 SC (Quantity: 100 ml / ha & cost: ₹ 2000/-) Cost /ha: ₹ 2600/-	Rabi-2024	5	12	Yield Qtl/ha -B:C ratio -% pest infestation (Total Cost: ₹13000/-)
15	Groundnut	-	Natural farming	Spraying of Dasparani ark for the management of pest in groundnut	Drum and bucket @₹ 1200 per demo	Kharif-2024	2	5	-Yield (kg/ha) -B:C Ratio - Pest infestation (%) (Total Cost ₹ 6000/-)

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16	Turmeric	-	IDM	Effect of Azoxystrobin 18.2% + Difenconazole 11.4 % SC for the control of leaf blotch and leaf spot disease in turmeric (Two sprays of Azoxystrobin 18.2% + Difenconazole 11.4 % SC @ 500 ml/ha with sticker @ 500 ml/ha at disease initiation stage and second at 15 days after first dose)	Azoxystrobin 18.2% + Difenconazole 11.4 % SC @ 500 ml/ha with sticker @ 500 ml/ha (Quantity: Azoxystrobin 18.2% + Difenconazole 11.4 % SC 1.0 lit/ha Cost: Rs. 2500/-) for about 2 dose & sticker @ 1 lit/ha Cost: Rs. 2000/-)for about 2 dose. Cost /ha: Rs.4500/-	Kharif - 2024	2	5	-Yield Qtl/ha -B:C ratio -% disease infestation (Total Cost: Rs. 9000/-)
17	Coconut	-	Organic Farming	Effect of organic ingredient to enhance coconut yield in the saline area	15 kg FYM, 8 kg vermicompost, 2.25 kg castor cake and 2.25 kg Neem cake @ per plant(20 plants per farmers total 100 plants)	Kharif - 2024	2	5	-Yield Nuts/ha -B:C ratio (Total Cost: Rs. 11000/- per ha)
18	Chilli	-	Water management	Use of plastic mulch in Chilli to conserve irrigation water	5 role of plastic mulch @ Rs. 3200 (Total cost Rs. 16000/-)	Rabi - 2024	2	5	-water saving (cu.m/ha.) -Yield Qtl. /ha. -B:C ratio (Total cost Rs. 16000/-)
19	Mango	-	INM	Effect of Novel 2% for increasing quality and production of Mango	Novel 2 ltr./ 0.4 ha @ ₹ 150 /Ltr. Total cost ₹750/ha	Rabi- 2024	2	5	-Yield Qtl/ha -B:C ratio (Total cost ₹ 1500/-)
20	Coconut	-	Natural farming	Use of Jivamreeth with irrigation water in coconut for yield enhancement	Drum and bucket @1600 per demo and methodology display board	Summer- 2024	2	5	-Yield (Nuts/ha) -B:C Ratio (Cost ₹ 8000/-)

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21	Pro super bag	-	Grain storage	Use of pro super bag for storage of different pulses dales	Pro super bag (Quantity & cost: @ Rs 150/- Cost /: ₹ 150/-	Summer-2024	-	10	- Storage capacity (days) (Total cost :1500/-)
22	Natural Nutritional gardening		Health and nutritional	Demonstration of Natural nutritional garden for improvement health status of farmwomen	Vegetable seed, seedling and fruit plant kit Cost/inputs/kit: ₹ 200/-	Kharif-2024	-	50	-Production per unit(Kg) - Before & after consumption - Income generation (₹) Total cost ₹ 10,000/-
23	Bajara	Bajara Biscuit	Value addition	Preparation of bajara biscuit as a high nutrient diet for farmwomen	Bajara flour + wheat flour + milk + backing powder + Vanila essence + sugar + butter (1 Kg. of biscuit making) (Quantity 1 Kg. @ ₹ 300/-)	Summer - 2024	-	10	- Durability - Taste (Total cost ₹ 3000)
24	Spiral seed separator	Grader tool	Primary value addition of grain	Use of spiral seed separator for value addition in soybean seed	Spiral seed separator (Quantity & Cost:@₹8000/-)	Kharif-2024	-	15	- Quantity clean in 8 h₹ - Cost of Cleaning (₹/ Qtl.) - Quality of separated grain/seed Total cost ₹ 8000/-
25	Drum Stick		Health & Nutrition	Drumstick leaves powder as nutritional supplement in farm women	Drum stick leaf powder (5 gm/ person /day) as supplement for three months (Quantity 2.25 kg & Cost:@₹5500/-)	Rabi-2024	-	10	-Hb percentage in blood (gm), -body weight (kg) Total cost ₹ 5500/-
26	Waste decomposer	-	Farm waste management	Effect of waste decomposer on quality of Manure	Waste decomposer culture (Quantity & cost: 10 Culture bottle @ 100 ₹/ culture bottle/ farmer cost: ₹100/ farmer	Rabi-2024	-	10	-Yield Qtl/ha - time required -B:C ratio (Total Cost: ₹1000)

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27	Vermi compost	-	Farm waste management	Performance of vermi compost in Soybean	Earthworms + vermibeds (Quantity & cost: 5 vermi beds (1500 Rs/ bed) + 5 kg with @ ₹ 400/ kg Cost: 1900 ₹ Per farmer	Kharif - 2024	-	5	Technical indicator: -Yield Qtl/ha - no of pods/plant - time required Economic indicator: -B:C ratio (Total cost:9500)
28	Brinjal	-	INM	Performance of Navroji Novel bio fertilizer for increasing quality and production of Brinjal	Navroji Bio fertilizer 5 Ltr/ ha.@ Rs. 150/- Total cost Rs. 1500/-	Rabi - 2024	2	5	-Yield Qtl/ha - Av.No of fruits per plant - Av. Size & weight of fruit -B:C ratio (Total Cost: Rs. 1500/-)
29	Solar dryer	-	Value addition	Use of solar dryer for drying and value addition of fish	Fish solar dryer Provide by CIFT	Rabi 2024		30	-Quality of dry fish -Time saving in solar dryer -period of good quality
30	Silver Pompano	-	Fish cultivation	Use of 15 ppt salinity for silver pompano culture	Fish seed 5000 nos. Cost/seed Rs.6 Total cost of Inputs Rs.30000 Provide by CMFRI	Summer & Kharif- 2024		1	-Growth rate in 15 ppt -Culture Period (Total cost of Inputs Rs.30,000)
31	Cattle	-	Increasing milk productivity as well as fat percent in gir cattle	Effect of By-pass fat for Increasing milk productivity as well as fat in gir cattle	By- Pass fat @ 10 g/Ltr. of milk & Mineral mixture @ 40 gm./animal/day (Cost ₹ 2700)	Kharif– 2024	-	5	-Fat percent -Milk yield (Cost ₹ 2700)