

## SEASON-WISE PLAN OF FRONT LINE DEMONSTRATIONS (FLD) FOR 2010-11

### A. Other than oil seeds pulses and cotton

#### SEASON : KHARIF

Thrust area	Crop / livestock / enterprises	Yield gap (q/ unit ha / number) or (number/unit)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha) / Number	No. of farmers
		District average yield	Potential yield	Farmer's yield			Name & Quantity (kg/ha) or number/unit	Cost (Rs./ha) or Rs./unit		
Introduction of new hybrid	Maize	20	40	25	Low yielding hybrids	ICM in Maize	Seeds of Arjun 20 kg/ha Znso4 and Feso4 @ 25kg/ha	2700	5	12
Cropping systems	Onion followed by sorghum	-	-	-	Single crop	Onion - rabi sorghum relay cropping	Onion Seeds 5 kg/ha purified seeds of sorghum	1500	10	12
Pest & disease management	Lime	150	350	250	Citrus canker & mite	Bacterinashak (0.5g/l)+ Copper oxychloride (2 g/l) & Dicofol 20EC @ 2.5ml/lt- 3 sprays at an interval of 10 days	1)Bacterinashak 1 kg 2) COC 3.75 kg Dicofol 20EC @ 2.5ml/lt	2600 2000 1000 (Total - 5600/-)	5	12
Pest & disease management	Gaillardia	6	15	8	Anthracnose and Aphid	Thiophenyl methyl @ 1 ml/lit + Acitamaprid 0.25 / lit	Thiophenyl methyl @ 1 lit + Acitamaprid 400 g	1200 + 400 (Total 1600/-)	5	12
Pest & disease management	Chrysanthemum	6	15	8	ICM	Powdery mildew and bud borer	flucilazole 100 ml. + Dichlorovas 10 lit	800 500 (Total - 1300/-)	5	12
Introduction of new variety	Drumstick	11	20	13	Non availability of HY varieties	Introduction of Improved variety KDM-1, moisture conservation technology (basins with inward slopes and mulching)	1)Seeds (250g /ha) 2)Polythene bags	250 500 (Total - 750/-)	2	10
INM and disease management	Banana	20	80	45	Poor nutrition and Sigatoka leafspot	Banana special and hexaconazole 1 ml/lit 2 sprays	Banana special (20 kg/ha) Hexaconazole (500 ml/ha)	2400/ha 200/ha (Total - 2600/-)	5	10

**SEASON : RABI**

Thrust area	Crop / livestock / enterprises	Yield gap (q/ unit ha / number) or (number/unit)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha) / Number	No. of farmers
		District average yield	Potential yield	Farmer's yield			Name & Quantity (kg/ha) or number/unit	Cost (Rs./ha) or Rs./unit		
Introduction of New variety	Rabi sorghum	5	40	20	High yielding variety are not availability for deep soils	CSV 22, Seed treatment with Biofertilizers	Seed 7.5 kg Azospirillum and PSB 500 g each	200/-	20	50
Introduction of New variety	Wheat (Irrigated)	12	50	8.0	Non availability of new variety and weeds	DWR-225 and weedicide	Seeds 150kg & 2,4 D Sodium salts	2700/- 625 (3325/-)	5	12
Introduction of New variety	Wheat	4.0	20	6.0	Non availability of high yielding variety	DWR-2006	Seeds 50kg	2700/-	5	12
Introduction of New variety	Wheat	4.0	20	6.0	Non availability of high yielding variety	DDK-1025	Seeds 50kg & 2,4 D Sodium salts	3325/-	5	12
Introduction of new varieties, disease management	Onion (Irrigated)	100	200	150	Low yielding varieties Purple blotch and thrips	Introduction of Agrifound light red Spraying with Oxiflorophen @ 0.5 ml /lit and 2 sprays	1) Agrifound light red 2) Oxiflorophen 1.1ml/lit	1500 1100 (Total - 2600/-)	5	12
Disease mangement	Pomegranate	70	150	100	Bacterial blight	Dusting of bleaching powder @ 25 kg/ha on infected debris smearing with bacterinashak (0.5 g/lit) + 3g COC + Hurimanja (2 g/lit) Spraying with Bacterinashak	1)Bacterinashak (1.25 kg/ha) 2)COC 5 kg /ha Micronutrients 3)Boron 10 kg 4)Zinc 10 kg 5)MgSo4 10 kg 6)CaSo4 10 kg	2800 2500 3600 2200 1100	2	10

						(0.5g/l)+ COC (2g/l) -4-5 sprays followed by spraying with micronutrients		1800 (Total: 14000)		
Pest and disease management	Grape	15	75	25	Stem borer and Mealy bug	Dihlorovas (8% stem injection) IPM package	1) Dihlorovas 1 lit 2)IPM package (DDVP 1 lit, Fish oil resin soap 5 lit, grease 5 kg, Neem oil 1 lit, COC 1 lit)	500  5,000 (Total: 5500)	2	10
Sustainability					Non sustainability of mono enterprises	Promotion of IFS for SC/ST families	Integrated farming system	-	-	100

**SUMMER : NIL**

**ANIMAL SCIENCE**

Thrust area	Crop / livestock / enterprises	Yield gap (q/ha)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (Unit)	Total cost (Rs)	No. of Farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./Unit)			
Livestock management	Cattle	-	-	-	The availability of green fodder is less and fodder contains less protein	Use of azolla in animal feed @ 0.5kg to 1.0kg/animal	1. Plastic sheet 2x4m 2. Azolla culture	100/-	60	6,000	60

Livestock management	Cattle	-	-	-	Infestation of ecto and endo parasites resulting into decreased growth rate & milk yield in cattle	Treatment of ecto-parasites in Dairy animals	Treatment of affected animal by inj Ivermectin 1ml / 50 kg body wt s/c at weekly interval	250/	60 Nos	15,000	60
Introduction of fodder crops	Cattle	-	-	-	Low yielding fodder crops	High yielding Naiper grass APBN-1	20,000 root slips/ha	20,000	1 ha	20,000	50

## HOME SCIENCE

Thrust area	Crop / livestock / enterprises	Yield gap (q/ha)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Nos	Total cost (Rs)	No. of Farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./unit)			
Drudgery	Weed				Weeds	Hand wheel hoe weeder with 3 tynes	01	1500	05	7500	20
Drudgery reduction	Sorghum & wheat	-	-	-	To save time and energy	Serrated sickle for harvesting of sorghum & wheat	10	100	-	-	50
Drudgery reduction	Groundnut	-	-	-	To increase the efficiency	Groundnut decorticator with separator	05	1500	05	7500	20
Drudgery reduction	-	-	-	-	To save time and increase efficiency	Envirofit chula	05	-	-	-	20

**B. Oil seeds  
KHARIF**

Thrust area	Crop	Yield gap (q/ ha )			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha)	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./ha)		
Moisture conservation & pest and diseases management	Sunflower	6	14	10	1. Moisture stress 2. Powdery mildew disease 3. BHHC	KBSH -53 with wider row sowing(120 cm) Spinosad @ 0.1 ml/lit	Seeds and Spinosad 50 ml	860 500/- (1360/-)	20	50
Introduction of variety	Groundnut	7	14	9	1. Moisture stress 2. low yielding varieties 2. Poor nutrition	GPBD-4 variety with Skip row method(2:1), Seed treatment with biofertilizers	Seeds Rhizobium, PSB	6250	15	37
Introduction of variety	Safflower	-	-	-	Low oil yielding variety	A-2 variety	Seed .....	800	10	25

**RABI: Nil**

**SUMMER**

Thrust area	Crop	Yield gap (q/ ha )			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha)	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./ha) or Rs./unit		
Introduction of new variety	Summer groundnut	15	75	25.0	Non availability of high yielding variety and moisture management	GPBD-4, Seed treatment with Biofertilizers, with 3:1 skip row for water management	Seed 150kg <i>rhizobium</i> & PSB 500g each	7500/-	50	100

**C. Pulses KHARIF**

Thrust area	Crop	Yield gap (q/ ha )			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha)	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./ha) or Rs./unit		
Moisture conservation and new variety and production technology	Greengram	2.0	14.0	4.0	Moisture stress, Non availability of alternate variety and Poor nutrition	SARA method Selection-4- (non shattering variety), Seed treatment with biofertilizers, Vermicompost @ 5 q/ha	Seed 7.5 kg and Vermicompost 5q/ha	1680/-	5	12
New variety and Pest & disease management	Redgram	12	35	20	1. Non availability of variety high yielding variety 2. Pod borer	TS 3R (high yielder with resistance wilt) Seed treatment with biofertilizers and IPM	Seeds 15 kg Methomyl 0.4 kg Neem oil 2 lit HaNPV (250LE) Pheromone traps 5 /ha and 10 lures Spinosad 50 ml	750 400 300 500 150 440 <b>(Total: 2540)</b>	20	20

**RABI**

Thrust area	Crop	Yield gap (q/ ha )			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha)	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs./ha) or Rs./unit		
New variety and Pest management	Bengalgram	5	25	10	Non availability of alternate variety and pod borer	JG-11/GBS 964 with ICM	Seeds 15 kg Biofertilizers Methomyl 0.4 kg Neem oil 2 lit HaNPV (250LE) Pheromone traps 5 /ha and 10 lures Spinosad 50 ml	1750 60 400 300 500 150 440 <b>(Total: 3600)</b>	20	20

SUMMER : NIL

D. Cotton

KHARIF

Thrust area	Crop	Yield gap (q/ ha )			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (acre)	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/acre)	Cost (Rs./acre) or Rs./unit		
New variety and Improving productivity	Cotton	20	35	20	Bollworms and Poor nutrition	Bt cotton and ICM	Bt Cotton seeds 0.5kg/acre Acetamoprid (50g/ac) Acephate (400g/ac)	1875/-  400  800  (Total = 3075)	50	50

RABI : NIL

SUMMER : : NIL