

Report of 32nd meeting of Zonal Research and Extension Action Committee

Table 1: Front Line Demonstration (FLD)

S. N.	Technology Demonstrated	No. of farmers	Area (ha)	Yield (q/ha)			Local check yield (q/ha)	% increased
				Highest	Lowest	Average		
A	Frontline demonstration on pulse crops							
1	Pigeon pea GT 105	25	5	15.02	12.45	13.63	10.54	29.32
2	Introduction of new variety of Gram GG 5	25	5	11.90	10.50	11.34	8.40	35.00
3	Promotion of less water consuming nutrient cereal crops	10	1	12.40	9.60	10.79	7.65	41.05
B	FLDs on Other crops							
1	Paddy- GNR 6	25	5	29.20	26.90	28.03	23.59	18.77
2	Finger millet- GNN 8	25	5	11.40	9.15	10.21	8.22	24.18
3	Littel millet- GV 3	25	5	11.20	9.25	10.22	7.49	36.27
•	Horticultural pulse crops							
1	Introduction of new variety of indian bean "GNIB 22"	25	2.5	42	35	36.64	26.44	38.98
•	Horticultural Other crops							
1	Introduction of new germplasm of Aloevera " INGR 13043"	10	0.1	407000 Nos. Daughter plant	296000 Nos. Daughter plant	344100 Nos. Daughter plant	-	-
2	Introduction of promising mango variety "Kesar"	20	1.0	Survival rate of graft on farmers field is 80-85%				
•	Plant Protection							
1	Fruit fly trap	5	2	50	47	48.2	36.8	31.12
2	Pseudomonas Iuroscence For IDM in Finger millet	25	2.5	10.4	9.9	10.12	8.35	21.23

3	Pheromone trap in Paddy	25	5	26.7	25.1	26.04	23.96	8.77
4	Trichoderma in Gram	25	05	11.6	10.5	11.16	9.27	20.46
5	Cue lure trap in cucurbitaceous crops	20	2	91	87	88.4	69.85	26.61
6	Pheromone trap & Yellow sticky trap in Okra	25	5	98	92	94.92	84.4	12.49
•	Home Science							
1	Kitchen garden	35	-	55	89	85	30	183.33

FLDs under other schemes (Other than KVK-ICAR Budget):

Category & Crop	Thematic Area	Name of the technology	Variety	No. of Farmers	Area (ha)
Pulse crops					
Introduction of new variety of Gram GG 5	ICM	New variety	GG 5	30	6
Introduction of new variety of green gram GM 6 (TSP)	ICM	New variety	GM 6	15	2.25
Introduction of new variety of green gram GM 6 (CFLD)	ICM	New variety	GM 6	50	20
Horticultural crop					
Introduction of new variety in Turmeric GNT 2	ICM	New variety	GNT 2	08	0.16
Plant Protection					
Fruit fly Trap for Mango Fruit fly	IPM	Fruit fly	Mixed	250	50

FLD on Others Enterprise: Oyster Mushroom Cultivation (Adaptive trial)

Category and crop	Thematic area	Name of technology demonstrated	No. Of farmers	No. Of Units	Average yield (Kg)/ 1 Kg spawn	Other parameters		Economics of demonstration (Rs./demon.)			
						De mo	Chek	Gross Cost	Gross Return	Net Return	BCR
Oyster Mushroom	Mushroom Production	Oyster Mushroom cultivation	25	25	10 Kg	-	-	300	1600	1300	5.3

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds, etc)	Major parameters lit/cow/day	% change in major parameter	Other parameter	Economics of demonstration* (Rs.)				Economics of check (Rs.)				
								Dem o	Chec k	Gro ss Cost	Gros s Return	Net Retu rn	BCR ** (R/C)	Gro ss Cost	Gros s Return	Net Retu rn
Dairy cow (KVK regular)																

1.	Fodder management	Introduction of new variety of Fodder Sorghum " CSV 21 F"	20	20	327 (q/h a)	270	21.11	-	-	2600 0	8175 0	5575 0	3.14	2900 0	6750 0	3850 0	2.32
2.	Nutrition management	Bypass fat	30	30	9	7.5	20.00	-	-	4000	1115 0	7150	2.78	3350	8950	5600	2.67
3.	Nutrition management	Mineral mixture	30	30	6.4	5.4	18.51	-	-	2300	5200	2900	2.26	2200	4500	2300	2.04

1.	Nutrition management	Bypass protein	30	30	8.2	7	17.14	-	-	4000	9800	5800	2.45	3350	8100	4750	2.41
2.	Nutrition management	Mineral mixture	30	30	6.3	5.5	14.54	-	-	2300	5400	3100	2.34	2200	4600	2400	2.09

N.B. : The proforma can be modified and used as per ICAR.

Table 2: On Farm Trail (OFT)**1. Sowing method in finger millet**

Treatment	Technology Assessed	Yield (Kg/ha)	BCR
T ₁	Farmers Practices (Random throwing)	945	2.64
T ₂	30 x 10 cm	1194	2.78
T ₃	22.5 x 7.5 cm	1320	3.08

2. Spacing management in pigeon pea

Treatment	Technology Assessed	Yield (Kg/ha)	BCR
T ₁	Farmers Practices (Random sowing)	947	1.89
T ₂	45 x 15 cm (Recom.)	1097	2.19
T ₃	60 x 20 cm	1210	2.42

3. Varietal assessment of Turmeric during Kharif season in the Dangs

Treatment	Technology Assessed	Yield (Kg/ha)	BCR
T ₁	Farmers practices	15750	1.29
T ₂	Gujarat Navsari Turmeric 1	18800	1.56

4. Varietal assessment of Tomato in the Dang District

Treatment	Technology Assessed	Yield (Kg/ha)	BCR
T ₁	Farmers practices	29800	1.81
T ₂	Gujarat Tomato 7	20050	1.38
T ₃	Arka Rakshak	45500	3.23

5. Control of wilt in Gram

Treatment	Technology Assessed	Yield (Kg/ha)	BCR
T ₁	Farmers practice	941	3.02
T ₂	Seed Treatment of <i>Trichoderma viride</i>	1163	3.49

6. Effect of supplementing mineral mixture and concentrate on body growth performance in calves

Treatment	Technology Assessed	Yield (Kg)	BCR
T ₁	Framer's practice (n=10)	62.8	1.78
T ₂	Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) (n=10)	65.4	1.73
T ₃	Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight (n=10)	67.6	1.5

N.B. : The proforma can be modified and used as per ICAR.

Table 3 : Farmers' problems/Farmers' feedback/Researchable issues etc.

S.N.	Farmers' problems/Farmers' feedback//Researchable issues etc.
1	Farmers want seeds of indigenous varieties of Paddy
2	Need to develop bio weedicide for organic farming
3	GNN 8 variety of finger millet was not suitable for dang district due to early maturity
4	Need to develop government sector hybrid variety of okra suitable for dang district
5	Need to develop government sector hybrid variety of bittergourd
6	Research on Government sector variety for <i>safed musli</i> for dang district
7	Need to develop early variety in the turmeric for the dang district
8	Need organic pesticides pheromone trap and yellow sticky trap from NAO, Navsari
9	Need marketing channel for oyster mushroom
10	Feeding area specific mineral mixture along with timely deworming resulted in to better body growth rate
11	Feeding bypass fat along with mineral mixture in cross breed cattle resulted increase milk production and better health
12	Fresh mushroom available-for their own consumption
13	Mushroom cultivation can be adopted as source of income with agriculture as simple production technology

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