Report of 34th 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		
•	**Crop Production**							
1	Pigeon pea GT 105	26	5	15.25	12.50	13.80	10.62	29.94
2	Little millet GV 3	25	5	14.40	12.20	13.15	9.77	34.60
3	Finger millet GNN 6	25	5	16.50	12.45	14.61	11.12	31.38
•	**Horticulture**							
1	Introduction of promising variety of mango "Kesar"	30	3	80-85 % Survival rate				
•	**Plant Protection**							
1	Pseudomonas in Finger millet	25	5	13.3	12.2	12.78	10.10	26.55
2	Pheromone trap (Stem borer) in Paddy	25	5	25.1	23	24.27	21.59	12.45
3	Fruit fly trap in Mango	25	5	65	61.5	63.06	52.9	19.44

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

S. N.	Technology Demonstrated	No. of farmers	Area (ha)	Yield (q/ha)			Local check yield (q/ha)	% increased
				Highest	Lowest	Average		
•	**Crop Production**							
1	Paddy Pusha 1850 (ICAR- NCEP)	10	2	31.34	29.06	30.20	24.52	23.16
2	Paddy GR 7	85	85	32.95	28.70	31.15	24.25	28.45
•	**Horticulture**							
1	Introduction of new variety in greater yam "Hemlata"	17	0.12	84.00	69.00	77.35	144.82	- 46.49 *
2	Introduction of promising variety of Mango "Kesar"	11	1.1	80 % Survival rate				
3	Introduction of new variety of okra “Purna rakshak”	20	0.05	78.00	64.00	70.25	96.20	- 26.76 **
4	Introduction of new variety of indian bean “GNIB 22”	20	2	41.00	29.00	35.35	26.25	35.31
•	**Plant Protection**							
1	Pheromone trap in Pigeon pea	100	20	14.5	13.1	13.55	10.18	33.17
2	Cue lure trap in Bitterguard	100	41	98	92	96.06	81.57	17.89
•	**Extension Education**							
1	Kitchen garden kit (Okra GAO 5, Cowpea AVCP 1, Bottalgaurd GABH 1, Pegeon pea GT 105)	150	150	96	75	85.5	45.00	90.00

Note: * Hemlata variety is more susceptible to anthracnose verity compare to local verity.
** Purna Rakshak variety is an improved variety of okra and its yield may be less than hybrid variety.

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

S. N.	Technology Demonstrated	No. of farmers	Area (ha)	Yield (q/ha)			Local check yield (q/ha)	% increased
				Highest	Lowest	Average		
•	**Crop Production**							
1	Varietal evaluation of Gram GJG 3	50	6.66	16.00	12.84	14.64	10.75	36.19
2	Varietal evaluation of Green Gram GM 6	50	7.5	10.19	8.52	9.41	6.16	52.76

FLD on Other Enterprise:

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Economics of demonstration (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
Home science	Kitchen garden	Orgenic kitchen garden	100	100	65 unit	25	160	500	1800	1300	3.6

FLD on Livestock

Sr. no.	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	Economics of demonstration* (Rs.)				Economics of check (Rs.)			
					Demo	Check		Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
1.	Fodder management	Introduction of new variety of Fodder Sorghum " CSV 21 F"	20	20	340 (q/ha)	270 (q/ha)	12.59	26000	85000	59000	3.2	26000	67500	41500	2.5
2.	Poultry farming	Introduction of new improved birds- Rhode Island Red	20	20	142 eggs/year	89 eggs/year	59.5	2000	5200	3200	2.6	1400	3100	1700	2.21
Adaptive trial															
1.	Poultry farming	Introduction of new improved birds- Rhode Island Red	20	20	135 eggs/year	85 eggs/year	58.8	2000	4900	2900	2.45	1400	2900	1500	2.07

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

Table 2: On Farm Trail (OFT)

1. Varietal assessment of finger millet

Treatment	Technology Assessed	Yield (kg/ha)	BCR
T_1	Farmers Practices (Local varieties)	10.50	2.94
T_2	GNN 8	11.95	2.79
T_3	CFMV 2 (Gira)	13.66	3.19

2. Varietal assessment of chickpea

Treatment	Technology Assessed	Yield (kg/ha)	BCR
T_1	Farmer variety (Local Varieties)	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	GG 5		
T_3	GJG 6		

3. Varietal assessment of Potato in the dangs district

Treatment	Technology Assessed	Yield (Q/ha)	BCR
T_1	Farmers practices (Gram)	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	Potato crop (Kufri Badshah)		

4. Varietal assessment of Indian bean in the Dangs district

Treatment	Technology Assessed	Yield (Q/ha)	BCR
T_1	Farmers practices (Katargam)	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	GNIB 21 (2014)		
T_3	GNIB 22 (2017)		

5. Management of Fruit & Shoot borer of Okra

Treatment	Technology Assessed	Yield (Q/ha)	BCR
T_1	Farmers practice	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	Installation of Pheromone trap		
T_3	Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm		

6. Assessment of pheromone trap for the management of fruit & shoot borer in Brinjal

Treatment	Technology Assessed	Yield (Q/ha)	BCR
T_1	Farmers Practices	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	Installation of pheromone traps @ 40 traps/ha (AAU,Anand)		
T_3	Remove the infected shoot and fruit + Installed pheromone traps @ 12/ha (TNAU,TN)		

7. Use of Chelated minerals in the diet of crossbred HF cows

Treatment	Technology Assessed	Yield (lit./day)	BCR
T_1	Farmer's practice – feeding of locally available feeds and fodders	Not conducted in the previous year due to lack of grant it will be conducted in this financial year.	
T_2	T_1 + Chelated minerals @ 30 gm/cow/day for 120 days		
T_3	T_1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight		

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	GT 105 variety more preferable than others in dangs.
2	Finger millet variety GNN 6 was found more suitable than GNN 8 in dangs.
3	Cue lure trap was found good for control of Fruit fly.
4	Improved birds RIR are more economic then local birds with respect to egg production.
5	Use of chaff cutter for cutting fodder It resulted into prevents wastage of fodder.
6	More focus to be given to the FPO
7	The pulses vegetable seed should be included in the kitchen gardening kit.
8	Twin wheel hoe was found more suitable in dang district soil.
Researchable issues	
9	Moderate yellow mosaic virus found in GM 6 variety of green gram in dangs.
10	Hemlata variety is more susceptible to anthracnose compare to local variety.
11	Farmers required round shape based variety of Greater yam.
12	Effective organic control for brinjal mite.
13	Farmers required Govt. sector hybrid variety of okra which is suitable for off season okra cultivation.
14	Need recommendation for management of false smut in paddy in organic/Natural farming in dangs.

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