

FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2021 and recommended for large scale adoption in the district

S. No	Crop/Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1.	Gram	ICM	GG 5	FLD, Training, Field Days, Farmers meeting, Exposur visit to KVK farm, Mass media	1	25	05
2.	Pigeon pea	ICM	GNP 2		5	25	05
3.	Paddy	ICM	GNR 6		3	25	05
4.	Finger millet	ICM	GNN 8		3	25	05
5.	Little millet	ICM	GV 3		7	25	05
6.	Bottle gourd	ICM	GABH 1		1	10	0.66
7.	Mango	ICM	Sonpari		2	20	1.0
8.	Okara	IPM	<i>Azadirachtin</i>		1	5	01
9.	Mango	IPM	Fruit fly trap		1	5	01
10.	Finger millet	IDM	<i>Pseudimonas fluroscence</i>		3	25	2.5
11.	Paddy	IPM	Pheromone trap		4	25	05

B. Details of FLDs implemented during 2021 (**Kharif 2021, Rabi 2020-21, Summer 2021**) (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.**)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
Pulse crops										
1.	Pigeon pea	ICM	New variety	Rabi 2020-21	5	5	25	0	25	-
2.	Gram	ICM	New variety	Rabi 2020-21	5	5	25	0	25	-
Other crops										
3.	Paddy	ICM	New variety	Kharif 2021	5	5	25	0	25	-
4.	Finger millet	ICM	New variety	Kharif 2021	5	5	25	0	25	-
5.	Little millet	ICM	New variety	Kharif 2021	5	5	25	0	25	-

6.	Nutri cereal crop (Little millet)	INM	New variety	<i>Kharif 2021</i>	1	1	10	0	10	
Horticultural pulse crops (2020-21)										
7.	Indian bean	ICM	New variety	<i>Rabi 2020-21</i>	2.5	2.5	25	0	25	-
Horticultural other crops (2020-21)										
8.	Aloevera	ICM	New variety	<i>Rabi 2020-21</i>	0.1	0.1	10	0	10	-
9.	Mango	ICM	New variety	<i>Rabi 2020-21</i>	1.0	1.0	20	0	20	
Plant Protection (2020-21)										
10.	Gram	IDM	<i>Trichoderma</i>	<i>Rabi 2020-21</i>	5	5	25	0	25	
11.	Cucurbitaceous crop	IPM	Cue Lure trap	<i>Rabi 2020-21</i>	2	2	20	0	20	-
12.	Okra	IPM	Pheromone trap & Yellow sticky trap	<i>Rabi 2020-21</i>	5	5	25	0	25	-
Plant Protection (2020-21)										
13.	Paddy	IPM	Pheromone trap	<i>Kharif 2021</i>	5	5	25	0	25	-
Livestock										
14.	Sorghum	Fodder management	Introduction of new variety of Fodder Sorghum “CSV 21 F”	<i>Rabi 2020-21</i>	20 No. of Units	20 No. of Units	20	0	20	-
15.	Bypass fat	Nutrition management	Bypass fat	<i>Rabi 2020-21</i>	30 No. of Units	30 No. of Units	30	0	30	-
16.	Mineral mixture	Nutrition management	Mineral mixture	<i>Rabi 2020-21</i>	30 No. of Units	30 No. of Units	30	0	30	-
17.	Sorghum	Fodder management	New variety GSF 5	<i>Kharif 2021</i>	20 No. of Units	20 No. of Units	20	0	20	-
FLD on Other Enterprise										
18.	Plant Protection	Mushroom production	Oyster mushroom cultivation	<i>Rabi 2021</i>	30 No. of Units	30 No. of Units	30	0	30	-
19.	Home science	Nutrition garden- <i>kharif</i>	Organic kitchen garden	<i>Rabi 2021</i>	35 No. of Units	35 No. of Units	35	0	35	-
20.	Home science	Nutrition garden- <i>Rabi</i>	Organic kitchen garden	<i>Rabi 2021</i>	25 No. of Units	25 No. of Units	25	0	25	-
21.	Home science	Nutrition garden- <i>Rabi-Adaptive trial</i>	Organic kitchen garden	<i>Rabi 2021</i>	30 No. of Units	30 No. of Units	30	0	30	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Pulse crops											
Pigeon pea	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Gram	10-20/07/2020	05-20/02/2021	108	7
Gram	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Paddy	15-25/11/2020	20-28/02/2021	0	0
Other crops											
Paddy	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Green gram	15-25/07/2021	01-10/11/2021	366	9
Finger millet	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Gram	25-31/07/2021	05-20/11/2021	268	9
Little millet	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Paddy	25-31/07/2021	05-20/11/2021	268	9
Nutri cereal crop (Little millet)	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Paddy	25-31/07/2021	05-20/11/2021	268	9
Horticultural pulse crops (2020-21)											
Indian bean	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Finger millet	15-25/10/2020	20-31/01/2021	30	1
Horticultural other crops (2020-21)											
Aloevera	Rabi 2020	Irrigated	Lateritic black Hilly	H	M	H	Turmeric	-	-	-	-
Mango	Rabi 2020	Irrigated	Lateritic black Hilly	H	M	H	Mango	-	-	-	-
Plant Protection (2020-21)											
Gram	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	Paddy	15-25/11/2020	20-28/02/2021	0	0
Cucurbitacious crop	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Little millet	15-30/10/2020	15-30/03/2021	30	1
Okra	Rabi 2020-21	Irrigated	Lateritic black Hilly	H	M	H	Gram	15-25/10/2020	15-25/02/2021	30	1
Plant Protection (2020-21)											
Paddy	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	Gram	15-25/07/2021	01-10/11/2021	366	9
Livestock											

Sorghum	Rabi 2020-21	Rain fed	Lateritic black Hilly	H	M	H	-	02/07/2020	15-20/12/2020	1461	51
Sorghum	Kharif 2021	Rain fed	Lateritic black Hilly	H	M	H	-	11/06/2021	01/11/2021	1462	54

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	5	11-06-2021, 09-08-2021, 04-09-2021, 27-09-2021, 29-12-2021	113	No any
2	Farmers Training	57	From different date of the year	1591	No any
3	Media coverage	26	From different date of the year	--	No any
4	Training for extension functionaries	5	12-08-2021, 12-08-2021, 12-08-2021, 26-08-2021, 04-10-2021	160	No any

C. Performance of Frontline demonstrations

Frontline demonstration on pulse crops (Rabi, Summer-2020)

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration* (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Crop Production																		
Pigeon pea	ICM	New variety	GT 105	25	5	15.02	12.45	13.64	10.54	29.32	20000	54520	34520	2.73	18000	42160	24160	2.34
Gram	ICM	New variety	GG 5	25	5	11.90	10.50	11.34	8.40	35.00	16000	52808	36808	3.30	13800	38640	24840	2.80

FLD on Other crops (Kharif 2021)

Category & Crop	Thematic Area	Name of the technology	Variety/ Input	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Economics of demonstration* (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						H	L	Av.										
Crop Production																		
Paddy	ICM	New variety	GR 17	25	5	33.40	30.05	32.13	26.84	19.71	20000	57834	37834	2.89	25000	48312	23312	1.93
Finger millet	ICM	New variety	GNN 6	25	5	15.05	13.65	14.44	10.67	35.33	12000	43320	31320	3.61	10000	29876	19876	2.99
Little millet	ICM	New variety	GV 3	25	5	13.50	12.35	13.02	9.72	33.95	10000	37758	27758	3.78	8000	24300	16300	3.04
Horticultural pulse crops (2020-21)																		

Category & Crop	Thematic Area	Name of the technology	Variety/ Input	No. of Farmers	Area (ha)	Yield (q/ha)			% Change in Yield	Economics of demonstration* (Rs./ha)				Economics of check (Rs./ha)				
						Demo				Check	Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						H	L	Av.										
Indian bean	ICM	New variety	GNIB 22	25	2.5	42	35	36.64	26.44	38.98	41320	109920	68600	2.66	44040	97828	53788	2.22
Horticultural other crops (2020-21)																		
Aloevera	ICM	New variety	INGR 13043	10	0.1	407000 Nos. Daughter plant	296000 Nos. Daughter plant	344100 Nos. Daughter plant	-	-	355000	688200	333200	1.93	-	-	-	-
Mango	ICM	New variety	Kesar	20	1.0	Survival rate of graft on farmers field is 80-85 %												
Plant Protection (2020-21)																		
Gram	IDM	Trichoderma	Local varieties	25	5	11.6	10.5	11.16	9.27	20.46	15000	50252.4	35252.4	3.5	14000	41727.6	27727.6	2.98
Cucurbitacious crop	IPM	Cue Lure trap	Local varieties	20	2	91	87	88.4	69.85	26.61	50000	185640	135640	3.71	48560	146685	98125	3.02
Okra	IPM	Pheromone trap & Yellow sticky trap	Local varieties	25	5	98	92	94.92	84.4	12.49	41000	175602	134602	4.28	39500	156140	116640	3.95
Plant Protection (2021)																		
Paddy	IPM	Pheromone trap	Mixed	25	5	30.5	27	28.3	26.10	8.77	27476	50940	23464	1.85	26346	46994	20648	1.78

Frontline Demonstration on Nutri cereals (Kharif 2021)

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Crop Production																		
Nutri cereal crop (Little millet)	INM	New variety	Local	10	1	12.40	9.60	10.79	7.65	41.05	10000	23738	13738	2.37	8000	16830	8830	2.10

FLD on Livestock (Rabi, Summer-2020-21)

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/ Poultry/ Birds,	Major parameters lit/cow/day		% change in major parameter	Other parameter		Economics of demonstration* (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR** (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)

				etc)													
Dairy cow (KVK regular)																	
1.	Fodder management	Introduction of new variety of Fodder Sorghum “ CSV 21 F”	20	20	327 (q/ha)	270	21.11	-	-	26000	81750	55750	3.14	29000	67500	38500	2.32
2.	Nutrition management	Bypass fat	30	30	9	7.5	20.00	-	-	4000	11150	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
4.	Fodder management	New variety- GSF-5	20	20	336 (q/ha)	280	20.00	-	-	25500	80000	54500	3.13	-	-	-	-
Dairy cow (Adaptive trial)																	
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

FLD on Other enterprises (Kharif, Rabi, Summer-2020-21)

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)
Plant Protection	Mushroom production	Oyster mushroom cultivation	30	30	10 Kg/ 1 Kg spawn	-	-	-	-	300	1600	1300	5.38
Home science	Nutrition garden- kharif	Organic kitchen garden	35	35	98.6	-	-	-	-	800	2370	1570	2.96
Home science	Nutrition garden-Rabi	Organic kitchen garden	25	25	96.9	25.00	287.60	--	--	680	2500	1820	3.67
Home science	Nutrition garden-Rabi-Adaptive trial	Organic kitchen garden	30	30	105.00	34.00	208.82	--	--	700	2400	1700	3.42

Performance of Cluster Frontline Demonstrations (CFLD)- (Rabi, Summer-2020-21):CFLD on Pulse crops

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Crop Production																		
Green gram	ICM	New variety	GM 6	50	20	820	765	802	559	43.44	20000	57751	37751	2.89	16500	40262	23762	2.44

FLDs under other schemes (Other than KVK-ICAR Budget-TSP, Adaptive trial, (Rabi, Summer-2020-21)

Category & Crop	Thematic Area	Name of the technology	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		% Change in Yield	Economics of demonstration* (Rs./ha)			
						Demo	Check		Gross	Gross	Net	BCR**

						High	Low	Ave.			Cost	Return	Return	(R/C)
Crop Production														
Oilseed														
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Crop Production pulse crops														
Gram (Adaptive)	ICM	New variety	GG 5	30	6	1225	1075	1163	854	36.18	16000	53498	37498	3.34
Green gram (TSP)	ICM	New variety	GM 6	15	2.25	828	734	778	523	48.81	20000	56046	36046	2.80
Horticultural crops														
Turmeric	ICM	New variety	GNT 2	08	0.16	240	190	216	176	22.95	97700	216000	118300	2.21

FLD on Other Enterprise: (Kharif, Rabi, Summer-2021):

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen garden	Nutrition garden	Organic kitchen garden	40	40	90	35	157.14	-	-	800	2800	2000	3.5