

Results of Front Line Demonstrations (Oilseeds crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Groundnut TG37A	ICM (Improved variety, Bio Fertilizers, Bio Pesticide)	25	10	15.5	12.5	23.9	28200	66667	2.36
Soybean NRC-37		10	5	18.5	15.8	17.2	27200	61314	2.25
Soybean KDS-344		40	15	19.6	15.6	25.5	27426	64600	2.36
Sesame GT-5		50	20	7.9	6.1	29.5	18500	32997	1.78

Crop Feed Back

Soybean	<ul style="list-style-type: none"> ➤ Higher number of pods and more yield as compared to JS-335 and local. ➤ Non-shattering, white colour flower and presence of hairs on pods which led to low insects –pests attacks.
Groundnut	<ul style="list-style-type: none"> ➤ TG37A variety of groundnut is high yielding, bold seeded, more haulm yield and having early maturity.



Results of Front Line Demonstrations (Pulses crops)

Crop/season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Pigeon pea BDN-711	ICM (Improved variety, Bio Fertilizers, Bio Pesticide)	25	10	15.9	14.13	13.0	27300	67074	2.46
Pigeon pea GT-104		12	5	18.7	14.7	27.35	28000	78624	2.81
Pigeon pea GNP-2		12	5	13.84	12.74	8.64	28000	58107	2.07
Chickpea (GG-5)		75	30	14.6	11.12	30.36	18000	43672	2.42
Greengram GM-6		50	20	8.7	6.7	29.5	22000	31277	1.42

Crop	Feed Back
Pigeon pea	➤ BDN-711 variety of pigeon pea gave higher number of pods and more yield as compared to local and due to bold seeded fetches more market price.
Chickpea	➤ Chickpea GJG-5 having bold seeded and getting high market price. Moderately resistant to wilt and root rot.
Greengram	➤ GM-6 having bold seeded and resistant against Yellow mosaic viral disease.



Results of Front Line Demonstrations (Other crops)

Crop/ season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Paddy (Drilled)	Improved variety (Purna)	60	25	17.23	12.8	34.6	17500	34452	1.96
Paddy (T.P)	Improved variety (GNR-2)	100	40	44.3	34.8	27.3	26000	71008	2.73
Paddy (T.P)	Improved variety (GNR-6)	100	40	45.5	36.6	24.32	24500	63704	2.60
Paddy (T.P)	Improved variety (GNRH-2)	50	20	48.6	36.6	32.79	24600	68105	2.76

Crop	Feed Back
Paddy (Drilled)	<ul style="list-style-type: none"> ➤ Paddy Purna having early maturity, more tillering and high yielding ability under drilled condition. ➤ Stem borer attack was less in Purna variety of drilled paddy
Paddy (T.P)	<ul style="list-style-type: none"> ➤ GNR-2 gave better yield , lodging problem is less as compared to other varieties ➤ Paddy GNR-6 found higher yield in rain fed area.



Results of Front Line Demonstrations (Other crops)

Crop/ season	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Cotton	Improved variety (H-8)	30	12	10.55	9.68	9.01	30000	45374	1.51
Cotton	Improved variety (H-10)	30	12	17.7	14.9	18.7	30000	75947	2.53
Cotton	Improved variety (H-12)	50	20	19.57	17.65	10.95	30000	84160	2.81

Crop	Feed Back
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| Cotton | <ul style="list-style-type: none"> ➤ Cotton Bt. H.-12 having a greater number of balls with high yield. ➤ Bt. H.-12 Variety having a greater number of bolls and less sucking pest problem. ➤ H-10 variety having more adaptability as rainfed. |
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Field visit and field day For FLD cotton H-12

Results of Front Line Demonstrations (Plant Protection)

Crop	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Paddy	IPM (Pheromone Trap, Yellow Sticky Trap, Acetamipride, Neem oil 1500 ppm, Bavaria bassiana)	16	6	42.5	34.5	23.2	19800	67940	3.43
Cotton		16	6	19.5	17.6	11.0	26000	83958	2.23
Brinjal	Bio-component (Pseudomonas liquid)	16	6	156	127.3	22.5	9686	25488	2.63
Chilli		16	6	25.5	23.3	9.44	11086	31150	2.81

Crop	Feed Back
Paddy & Cotton	<ul style="list-style-type: none"> ➤ Cotton having a greater number of bolls and less sucking pest problem. ➤ Adopting of IPM practices reduce risks with maximum benefit and low cost.
Brinjal & Chilli	<ul style="list-style-type: none"> ➤ Safety to environment and residue free food commodity and gets higher market value.



FLD visit, Field day and Group meeting For FLD cotton

Results of Front Line Demonstrations (Horticulture crops)

Crops	Technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase in yield	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Demo	Check				
Indian bean	Improved variety GNIB-22	40	20	29.9	24.4	5.5	26600	86700	3.25
Ajwain	Improved variety (Local)	10	4	12	10	2	19600	112000	5.71
Watermelon	INM (Novel)	15	6	450	433	17	175000	360000	2.05

Crop	Feed Back
Indian bean	<ul style="list-style-type: none"> ➤GNIB-22 is early maturing with a greater number of pods. ➤Indian bean (GNIB-22) gave higher number of tillering (8-10) with 15-20 numbers of pods per tiller.
Ajwain	<ul style="list-style-type: none"> ➤ Novel Gave even maturity and increase quality of Ajwain Seed
Water-melon	<ul style="list-style-type: none"> ➤NOVEL (Organic liquid fertilizer) gave high fruit setting and yield of water melon.



Results of Front Line Demonstrations Drudgery Reducing tools

Name of the technology demonstrated	Crop/Animal	No. of Farm women	Major parameters	Field observation		% Change in parameter	Labour reduction (man days)	Cost reduction (Rs./ha or Rs./Unit etc.)		
				Demo	Check			Implement	Labour	Total
Revolving type Milking stand and stool	Milking cow/buffalo	25	Time save, Safe and clean milking practices	56	59	39	1	1200	250	950
Electric Motor operated paddy thresher	paddy	2	Time saves	16	72	77.77	2	18000/-	500	17,500
Twin wheel hoe	Vegetable/gram	25	Work efficiency improve	21	28	33.33	2	1650/-	250	1400

NOTE:*One time investment (machine cost) for implements, ** labour cost calculated as per university labour wages.

Body Parts	Methods	Sum of discomfort rating	Average of discomfort rating
13 - Head, Neck, Shoulder, Upper arms, Lower arms, chest Waist, Wrist, Hips, upper leg, lower leg, Upper back, lower back.	Traditional	183.6	12.53
	Improved	92	7.2

B D S - Body Discomfort Symptoms (Itching-1), (Burning-2), (Numbness-3), (Stiffness-4), (Swelling-5), (Pain-6), **B P R** - Body pain rating (Very painful - 5), (Painful -4), (Moderate -3), (Mild 2), (No pain -1), **P F** - Pain Frequency (Never -1), (Less often -2), (Sometimes -3, (Very often -4) (Always -5)

Feed Back: Twin wheel hoe eliminates pain, avoids bending and squatting postures, reduces drudgery of farm women in weeding operation.

➤ Paddy thresher reduces the time and pain in shoulder, increase the work efficiency and saves money and manpower. Although it's a good source of income generation for farming community.

➤ The farm women took out 10.2 lit. of milk in 7-8 min. from one animal with revolving stand and stool as compared to the traditional way of milking animal who took 11.00 min. for milking 8.6 lit. of milk from one animal. So, time spent on activity decreased in improved method as compared to squatting method. He or she can freely use both hands for milking.



Milking stand & stool



On campus training



Paddy Thresher



Twin Wheel hoe

Results of Front Line Demonstrations (Kitchen Gardening)

Category	Name of the technology demonstrated	No. of Farm women	Inputs given	Major parameters			% change in parameter	Additional Cost (Rs)	Additional return (Rs)	BC Ratio
				Parameter	Demo	Check				
Kitchen Garden	Seedlings of vegetables	50	50	Yield	80.30	46	74.56	3600	9000	6.7

Category Feed Back

Kitchen Garden

➤ Kitchen Garden provides continuous supply of fresh vegetables and fruits throughout the year.



Kitchen garden demonstration



Field Visit



Kitchen garden vegetable stall

Adaptive Trial Scheme 20-21

Activity	Beneficiary
FLD Turmeric GNT-1 & GNT-2	200
Exposure Visit	1

KVK Narmada taking one step ahead for tribal farm women, We are glad to share and very much proud of these farm women with the help of demonstrations on GT-2 variety of turmeric in kitchen garden these tribal women received very good production and processed it ranging from 10 to 20 kg turmeric powder. They were able to sell it at amount of Rs 240 per kg from their home. This proved to be helpful to our hardworking tribal women and served as a mini startup for them amidst covid pandemic crisis.



Field day



Exposure Visit



Sell to customer

Method Demonstration

Results of Front Line Demonstrations (Livestock)

Category	Name of the technology demonstrated	No. of Farmer	No. of Units (Animal/Poultry/etc.)	Major parameters			% change in parameter
				Parameter	Demo	Check	
Cattle/ Buffalo	Chelated Mineral Mixture	50	50	Service period	96 Day	140 Day	31.43
Cattle/ Buffalo	Fodder Sorghum (COFS-29)	50	50	Fodder production	405 Qtl./ha.	205 Qtl./ha.	44.64
Cattle/ Buffalo	Ectoparasiticide drug	100	100	Incidence	05	20	75
Cattle/ Buffalo	Endoparasiticide drug	100	100	Incidence	02	26	92.31
Cattle/ Buffalo	Rubber cow mat	25	25	Milk Production	2.8	2.4	16.67

Crop	Feed Back
Chelated Mineral Mixture	Area specific Chelated Mineral Mixture helpful in digestion, fertility, Reproductive Performance, Milk Production, Promotes growth and development and also reduce calving interval & age of first parturition.
Fodder Sorghum (COFS-29)	It Can be grown throughout the year as a multicut variety under irrigated conditions which very useful manage of green fodder requirement of livestock throughout year.
Ectoparasiticide drug	Tick problem is very common in cattle specially in crossbred cattle. this drug is very useful in controlling ticks and other ectoparasite control.
Endoparasiticide drug	Good result of treatment of diarrhea cause by Gastrointestinal nematode worm in livestock and also good result in regular deworming of animals
Rubber cow mat	Rubber cow mat is very useful in dairy animal specially pregnant and milch animals which help in Increase productivity & profitability, Anti-slip surfaces, Increase milk production, Easy to clean & Hygienic maintain in animal shed, Reduces the risk of leg injury, Sturdy And Durable, Eco-friendly, Excellent Insulation and Cost-Effective long-lasting Product.

