



Action Plan For 2023-24

KVK – Bikaner-I



Krishi Vigyan Kendra, Bikaner-I

District – Bikaner (Rajasthan)

Directorate of Extension Education

(Swami Keshwanand Rajasthan Agricultural University, Bikaner)





Details about the NICRA villages



S No	Details	Village 1	Village 2
1	Name of the village	Kanasar	Himtasar
2	Involved in TDC	2022	2023
3	Cultivated area (ha)	6100	3081
4	Rainfed Area (ha)	5100	2521
5	Irrigated Area (ha)	1000	560
6	No. of households in the village	650	225
7	Approximate households to be covered so far (%)	41	-





Predominant farming system of the NICRA villages



S No	Farming System Typologies	Village 1		
		Area (ha)	No. of farmers (approx.)	% coverage (area in the village)
1	Rainfed with animal	5100	390	38
2	Irrigated with animal	1000	110	49



Predominant climatic and resource constraints of the major farming system typologies of NICRA villages

S No	Farming System Typologies	NICRA Villages	
		Climate constraints	Resource /Crop/Animal constraints
1	Rainfed with animal	Erratic Rainfall, abnormal monsoon behaviour, Drought/ Long dry spell	Low O.C in soil, Hunger & thirsty soils, inadequate availability of green fodder for animals, non described animal breed, Heat wave and cold wave
2	Irrigated with animal	Hot waves and Frost, Erratic Rainfall, abnormal monsoon behaviour, Hail during rabi seasons, Sudden rise in temperature	Limited irrigation water availability with poor quality, Low O.C in soil, inadequate availability of green fodder for animals,, non described animal breed

Identified promising resilient technologies for addressing the constraints

S No		Farming System Typologies	NICRA Villages	
			Climate constraints	Resource /Crop/Animal constraints
1	Rainfed with animal	Short duration drought tolerant varieties, crop & animal insurance	Green Manuring, Vermicomposting, Inter-cropping, Azolla production, breed upgradation	
2	Irrigated with animal	Short duration drought/salinity tolerant varieties, spray of suitable agrochemicals, crop, animal insurance	Green manuring, gypsum application, Salinity resistant crops/var. balance feeding of Animals, Mini sprinkler	



Module1-NRM interventions



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S. No.	Intervention	No. of units	No. of beneficiaries	Value of farmers share (Rs)	Cost to project (Rs)
1.	Soil health Card (SHC)	100	100	-	500
2	Low pressure drip irrigation system unit	5	5	5000	250000
3	Vermicompost units	10	10	400	40000
	Total	115	115	5400	290500





(B) In-situ moisture conservation



Activity	Unit cost/ Rs /acre	No. of demos	coverage		Amount (Rs)
			Area (Acres)	No. of farmers	
Summer ploughing	300	50	50	50	15,000
Green manuring dhaincha	100	50	50	50	5000
Total	400	100	100	100	20000





Module II – Crop production interventions

A) Stress tolerant / Improved varieties



Interventions	Description		Cost (Rs)/acre	Coverage		Amount (Rs)
	Crop	Variety (s)		Area (acre)	No. of farmers	
Drought tolerant	Bajra	RHB-177, RHB-90	300	50	50	15000
Improved varieties	Mustard	Radhika, DRMR-1165-40	250	25	25	6250
	Gram	GNG-2144, GNG-1581	2400	50	50	120000
	Green gram	Virat	800	40	40	32000
	Moth bean	RMO-2251	600	50	50	30000
Crop diversification (to other crops)	Ber	Gola/Umran	10 Plants/farmer (80 Rs/plant)	30 No.	30	24000
	Khejri	Thar sobha	10 Plants/farmer (80 Rs/Plant)			24000
Total	-	-	-	-	-	2,51,250



B) Improved agronomic practices and other crop interventions



Item	Cost (Rs)/ acre	Coverage		Amount (Rs)
		Area (ac)	No. of farmers	
Critical inputs for integrated crop management – Mustard (Sulphur and Zinc Sulphate)	600	25	25	15000
Other inputs (soil amendments, soil test based nutrient management, bio-fertilizers, other soil and plant health related etc)				
Bio fertilizer (Rhizobium/Azotobacter/PSB)	250	50	50	12500
Gypsum	500	50	50	25000
Total				52500





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Module 3 – Livestock interventions



Year round fodder production strategies (annual/perennial fodder) in the village

Season	Name of fodder	Variety	Area (ha)	Unit cost of demo (Rs)	No. of demos	Amount (Rs)	No. of farmers covered
kharif	Napier grass	CO-5	5.0	500	20	10000	20
Rabi	Lucerne	Anand-2	5.0	700	20	14000	20
Summer	Pearl millet	RAJ Chari-2	5.0	500	20	10000	20
Total			15		60	34000	60





Feed demonstrations for crop residue management / stress management: silage/ feed blocks/mineral mixture (MM) blocks / feed enrichment



Details of feed demo	Unit cost of demo (Rs)	No. of demos	Amount (Rs)	No. of farmers covered
a) Feed block demos UMMB	300	40	12000	40
b) Mineral mixture demos	300	50	15000	50
C) Health camp	10000	2	20000	150
Total		92	47000	240





Livestock



Enterprise/unit	Unit cost (Rs)	Convergence share in unit cost, if any (Rs)	Project share in unit cost (Rs)	No. of units/farmers	Cost to Project (Rs)
Introduction of breeding buck for breed improvement in Goat	21000	2100	18900	5	94500
Total				5	94500





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Capacity Building & Training Programmes



Theme	Title of training course	Proposed month	No. of participants	Cost to project (Rs.)
Pest management	IPM in Kharif crops	June-2023	25	5000
	IPM in Rabi crops	Oct- 2023	25	5000
Crop Production	Production technology of kharif crops	June- 2023	25	5000
	Production technology of Rabi crops	Oct- 2023	25	5000
Value addition	Clean milk production & milk processing	Aug.-2023	25	5000
Scientific management	Scientific management of goat unit	Oct.-2023	25	5000
Nutrient management	INM in Rabi crops	Nov.-2023	25	5000
Total			175	35000





Exposure Visits

Place of visit	Purpose of visit	Proposed month	No. of participants	Cost to project (Rs.)
Pau Ludhiana	New techniques of integrated farming system	August , 2023	20	1,00,000
MPUAT, Udaipur & CAZRI, Jodhpur	New techniques of crop production and dairy farming	October-2023	20	100000
Total			40	200000



Plan for the spread of the proven practices (Convergence with departments, linkages with development organisations)

- Soil health management by green manuring, deep summer ploughing, vermi-composting, application of bio-fertilizer
- SHC based nutrient application
- Demonstration on climate resilient varieties
- Crop diversification through tree plantation like Ber and Khejri
- Use of area specific mineral mixture
- Breed improvement of goat by demonstrating sirohi bucks
- Capacity development and Use of ICT for dissemination of information

Advisories are proposed to be given

- Through VCRMC Meeting.
- BY SMS through Whats App groups.
- Groups meeting.
- Kisan Sarathi Portal

Summary of budget Estimates for 2023-24 (Tentative)

Item	Amount (Rs)
Procurement of farm machinery/implements for CHC	-
Repair/ Renovation of existing water harvesting structures & drainage channels etc.	-
NRM and In situ conservation – Resource Conservation Technologies (RCTs)	3,10,500
Stress tolerant/ Improved varieties	2,51,250
Improved agronomic practices and other crop interventions	52,500
Year round fodder production strategies (annual/perennial fodder) in the village	34,000
Feed demonstrations for crop residue management / stress management: silage / feed blocks/ mineral mixture blocks / feed enrichment	47,000
Improved housing /shelter for protection against extreme weather	-
Livestock/fisheries units	94,500
Establishment of fodder banks (hay)	-
Establishment of seed banks	-
Training courses	35,000
Field days	6000
Exposure visits	2,00,000
Up-scaling of successful interventions	-
Contractual manpower (SRFs)	4,31,520
Media products to be developed	20000
Any other contingencies (TA etc)	90000
Grand total	15,72,270

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Thank You