

KRISHI VIGYAN KENDRA, GANJAM-I

NICRA ACTION PLAN, 2023-24

1. A. Basic information

S.No.	Item	Detail
1.1	Zone	V
1.2	Name of KVK (district)	Ganjam-1, Ganjam
1.3	Name of Tehsil	Jagannath Prasad
1.4	Name of Village	Chopara, Lepa, Nada, Chikili
1.5	Climatic vulnerability	Drought, Moisture stress, Cyclone

B. Details of NICRA village

Item	Existing NICRA village	Additional villages selected in the programme		
		Village 1 and year of selection	Village 2 and year of selection	Village 3 and year of selection
Village name	Chopara /2011	Lepa /2017	Chikili /2017	Nada/2018
Name of mandal/Block	Jagannath Prasad	Jagannath Prasad	Jagannath Prasad	Jagannath Prasad
Total area (ha)	150	70	230	210
No. of house holds	315	125	370	435
Extent of rainfed areas(ha)	45	30	85	70

C. Other NICRA villages with predominant farming system typologies

Sl.No .	Farming System Typologies	Village 1(Lepa)			Village 2 (Chikili)			Village 3(Nada)		
		Area (ha)	No. of farmers (approx.)	% coverage (area in the village)	Area (ha)	No. of farmers (approx.)	% coverage (area in the village)	Area (ha)	No. of farmers (approx.)	% coverag e (area in the village)
1	Rainfed without animal	18	48	26	60	105	26	47	106	22
2	Rainfed with animal ,Crop-1	09	26	13	17	28	08	14	40	07
3	Rainfed with animal,Crop-2	03	10	04	8	14	03	9	26	04
4	Irrigated without animal	12	21	17	81	162	35	72	171	34
5	Irrigated with animal	07	12	10	22	38	10	32	75	15
6	Other predominant system	17	08	25	34	23	15	24	17	11

2. Details of Farming system Typologies interventions

Sl. No.	Farming System Typologies	Climate constraints	Interventions/technologies	No. of farmers/ha	Village/ha	Unit cost (Rs./ha.)	Total amount (Rs.)
	Rainfed up land						
1	Rainfed upland without animal (Rice-Fallow)	Dry spell, Terminal moisture stress	Short duration drought tolerant Rice var. Sahabthagidhan , Direct sowing of Rice,Raising of farm bund ht. to 10 inch, sowing of Pigeonpea in farm bund	12/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	5000	20000
2	Rainfed upland without animal (Maize-Fallow)	Dry spell, Low water use efficiency , Less profit from single crop	Ridge & Furrow method of sowing, intercropping with Cowpea (1:1)	10/03	Chopara-1.0 Chikili-2.0	8000	24000
3	Rainfed upland with animal (Rice-Fallow, Dairy)	Dry spell, Terminal moisture stress, fodder shortage ,low milk yield	Short duration drought tolerant Rice var. Sahabthagidhan , Direct sowing of Rice,Raising of farm bund ht. to 10 inch, sowing of Pigeonpea in farm bund, vaccination, mineral mixture, fodder	12/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	8000	32000
4	Ragi –Fallow without animal	Dry spell, Terminal moisture stress	HYV- Arjun, seed treatment, Blast disease management, Threshing by OUAT Ragi Thresher	08/03	Chopara-1.0 0Lepa- 2.0	4000	12000

	Rainfed Medium land						
5	Rainfed medium land- without animal (Rice-Greengram)	Dry spell, Terminal moisture stress,Acid soil, YMV incidence in Greengram	Drought tolerant Rice var. SwarnaShreya,Raising of farm bund ht. to 10 inch, Transplanting 2weeks advance,Green manuring, Critical irrigation from Checkdam, Farm pond, YMV tolerant Greengram var.- IPM 02-14	12/4	Chopara- 1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	6000	24000
6	Rainfed medium land-with animal (Rice-Greengram, Dairy)	Dry spell, Terminal moisture stress, YMV more in March month .Low milk yield	Medium duration drought tolerant Rice var.Swarna Shreya , Leaf colour Chart, Raising of farm bund ht. to 10 inch, Critical irrigation from Checkdam, Farm pond, YMV tolerant Greengram var.- IPM 02-14 Mineral mixture, fodder, Vaccintion	24/8	Chopara- 2.0 Chikili-2.0 Lepa- 2.0 Nada-2.0	4000	32000
7	Rainfed Medium land-- without animal (Rice - Blackgram)	Dry spell, terminal moisture stress, pest infestation , YMV in local Blackgram var.	Medium duration drought tolerant Rice var.Swarna Shreya , Leaf colour Chart, Raising of farm bund ht. to 10 inch, Critical irrigation from Checkdam, Farm pond, YMV tolerant Blackgram var.- Sashi	24/08	Chopara- 2.0 Chikili-2.0 Nada-2.0 Lepa-2.0	7000	56000
	Irrigated upland						
08	Irrigated up land without animal (Rice-Sweetcorn)	Local var. with high pest infestation, Low water use efficiency, less profit from maize	HYV Rice var. MTU-1224 with eco friendly pest management, Sweet corn in Ridge & furrow	12/03	Chopara- 0.5 Chikili-2.0 Lepa- 0.5	20000	60000

09	Irrigated up land with animal-Poultry (Rice-Brinjal)	Local var. with high pest infestation,wilting of Seedlings& plants, Weed infestation. Low body wt. gain of local birds	HYV Rice var. MTU-1224 with eco friendly pest management, Wilt tolerant Brinjal var.- Swarna Shyamali,poly mulching, Poultry -Kadakhnath	12/04	Chopara-2.0 Chikili-1.0 Lepa- 1.0 Nada-1.0 Poultry-100 birds	12000	48000
10	Irrigated up land with animal-Poultry (Brinjal-Cabbage)	Local var. with high pest infestation, wilting of plants, weed infestation ,Low body wt. gain of local birds	Wilt tolerant Brinjal var.- Swarna Shyamali,poly mulching, IPM in CabbagePoultry -Kadakhnath	12/03	Chikili-1.0 Lepa- 1.0 Nada-1.0 Poultry-100 birds	15000	45000
11	Irrigated up land with animal-Poultry (Cowpea-Brinjal)	Low water use efficiency, YMV, Wilt & weed problem in Brinjal,Low body wt.gain of local birds	Cow pea in Ridge & furrow, YMV management, Wilt tolerant Brinjal var.- Swarna Shyamali,poly mulching,Poultry-Kadakhnath	10/02	Chikili-1.0 Chopara-1.0 Poultry-100 birds	10000	20000
12	Irrigated medium land without animal (Rice-Greengram)	Short term submergence in canal side area, acid soil,YMV, low yield of local Sesame var.	Flood tolerant Rice var.- Swarna sub-1, eco friendly pest management, YMV tolerant Greengram var. IPM 02-14	15/06	Chopara-2.0 Chikili-2.0 Nada 2.0	6000	36000
13	Irrigated medium land without animal (Rice-Tomato)	Short term submergence in canal side area, Acid soil, wilting of plants, weed infestation	Flood tolerant Rice var.- Swarna sub-1, Green manuring, Wilt tolerant Tomato var.- Arka Rakshyak,poly mulching	20/06	Chopara-2.0 Chikili-2.0 Lepa- 1.0 Nada-1.0	6500	39000
14	Irrigated medium land with animal-Dairy	Short term submergence in	Flood tolerant Rice var.- Swarna sub-1, Green	12/02	Chopara-0.5	8500	17000

	(Rice-Tomato)	canal side area, Acid soil, wilting of plants, weed infestation ,low milk yield	manuring, Wilt tolerant Tomato var.- Arka Rakshyak,poly mulching, mineral mixture		Chikili-0.5 Lepa- 0.5 Nada-0.5		
15	Irrigated medium land with animal (Rice-Brinjal)	Short term submergence in canal side area,acid soil, less profit from Maize	Flood tolerant Rice var.- Swarna sub-1, Green manuring, Wilt tolerant Brinjal var.- Swarna Shyamali,poly mulching, Vaccination, deworming	12/04	Chopara-1.0 Chikili-1.0 Lepa- 1.0 Nada-1.0	6000	24000
16	Integrated farming system(Rice, Greengram, Pisciculture, Dairy, Vegetable,vermicomposting)	Local var. with high pest infestation,YMV in Greengram,low fish & milk yield,wilting of vegetables	HYV of Rice Swarna sub-1, YMV tolerant Greengram var.- IPM 02-14, yearling with floating fish feed, vaccination, Mineral mixture feeding, fodder cultivation	12/12	Chopara-2.0 Chikili-1.0 Lepa- 2.0 Nada-1.0	5000	60000

3. Other intervention

A) *Repair / Renovation of existing water harvesting structures & drainage channels etc.*

<i>S.No.</i>	<i>Intervention</i>	<i>Dimensions</i>	<i>No. of beneficiaries</i>	<i>Amount (Rs)</i>
	Check dam repairing	50m * 20 m* 3m & 30m * 10m* 2m	84	30000
	Desilting of farm pond	80m * 35 m	18	20000
	Renovation of well		10	20000
			112	70000

B)Improved housing /shelter for protection of livestock against extreme weather

Type of shelter improvement*	Unit cost of demo (Rs)	No. of demos	Amount (Rs)
Concrete flooring with bamboo & straw thatching for cattle	3000	06	18000
Low cost poultry house with Cement pillar & wire mesh	6000	02	12000
Low cost Goat house with raised bamboo structure	8000	02	16000
Total		10	46000

C) Capacity Building programme

Theme	Title of training course	Proposed month	No. of participants	Amount (Rs.)
IPM	Management of Pest & diseases in paddy	August	25	4000
IPM	IPM in Greengram	Jan.	25	4000
Income generation	Goat rearing	Nov.	25	4000
Resource conservation	Vermicomposting, use of Bio-Fertilizer in diff. crop	Sept.	25	4000
Feed management	Application of Floating feed in Pisciculture	Oct.	25	4000
Quality planting material	Nursery raising , Grafting techniques of veg. & fruits	Oct.	25	4000
ICT in Agriculture	Role of ICT in changing climate scenario	Dec.	25	4000
Total	07		175	28000

D) Field Days

Theme	Title of Field day	Proposed month	No. of participants	Amount
Field day	Rainfed up land farming system	Oct.	50	4000
Field day	Rainfed medium land farming system	Nov.	50	4000
Field day	Irrigated medium land farming system	Nov.	50	4000
	Total		150	12000

E) Exposure visit

Place of visit	Purpose of visit	Proposed month	No. of participants	Cost to project (Rs.)
CHES, CTCRI, IIWM,NRRI	Awareness on improved technology	June & December	40	40000
Total			40	40000

F) Media Products to be developed (brochure/bulletin)

Item description	No. of copies	Amount (Rs.)
Bulletin on Impact of NICRA activities	500	10000
Total	500	10000

4 . Contractual Manpower (SRFs)

Category	Rate/month (Rs.)	No. of positions	No. of months	Amount (Rs.)
SRF	32550	1	12	390600
Total		1	12	390600

5. Non-recurring contingencies – Equipment

Procurement of farm machinery/ implements for Custom Hiring Centre (CHC)

S.No.	Item	Unit cost* (Rs)	No. of units	Amount (Rs)
1.	Power weeder	70000	01	70000
2.	Power tiller	160000	01	16000
	Total NRC		02	230000

Summary of budget Estimates for 2023-24(Tentative)

S.N.	Item	Amount (Rs)
1.	Farming system typologies demonstration	549000
2.	Repair/ Renovation of existing water harvesting structures & drainage channels etc.	70000
3.	Improved structure of live stock	46000
4.	Capacity building programme	28000
5.	Field day	12000
6.	Exposure visit	40000
7.	Media products to be developed	10000
8.	Contractual manpower (SRFs)	390600
9.	Nonrecurring Item	230000
10.	TA	60000
11.	POL & other Misc. expenses	30000
	Grand total	1465600

(Rupees fourteen lakhs sixty five thousand six hundred only)

**Sd/-
Senior Scientist & Head
KVK, Ganjam-I, Odisha**