

Action Plan For 2018-19

(Yearly plan prepared prior to start of *Kharif* season in April/May)

1.0 A. Basic information about NICRA cluster DISTRICT:GANJAM

S. No.	Item	Existing NICRA village	Additional villages selected in the programme*		
			Village 1	Village 2	Village 3
1.1	Village name	CHOPARA			
1.2	Name of mandal/Block	GP- Chhamunda, Block- jagannath Prasad	Lepa	Chikili	Dungapalli
1.3	Total area (ha)	150	70	230	210
1.4	No. of house holds	315	125	370	215
1.5	Extent of rainfed area (ha)	45	28	60	35

* Please add columns, if more villages are involved

B. Technologies proposed to be scaled up in the NICRA village during 2018

Sl. No.	Name of technology	No. of farmers covered	Approx. area to be covered (ha)	Remarks
1.	Check dam for critical irrigation	62	18	Life saving irrigation
2.	Raising of farm bund ht. by 1ft.	08	0.8	Moisture conservation
3.	Drought tolerant short duration Paddy var. sahabhagidhan	15	06	To coop with Dry spell
4.	Growing of Contigent crop-pigeonpea in Upland	15	05	Moisture stress tolerant
5	Maize in Ridge & Furrow method	10	02	Moisture conservation
6	Yearling rearing in seasonal farm pond	04	0.8	to coop with the decrease water table of seasonal farm pond
7	Summer tomato var.- Chiranjibi	10	0.8	Heat tolerant
8	Short duration YMV tolerant Greengram var.- IPM 02-14	25	10	YMV tolerant
9	Poly mulching in vegetables	04	0.2	Moisture conservation & to suppress weed growth

* Simple and low cost resilient practices are to be scaled up so as to reach as many farmers as possible with minimal cost

C. Module-wise technologies proposed to be scaled up in the adjoining villages during 2018

Sl. No.	Name of technology	No. of farmers covered	Approx. area to be covered (ha)	Remarks
1.	NRM- Raising of farm bund ht. by 1 ft.	08	0.5	Moisture conservation
2.	Drought tolerant short duration Paddy var. sahabhagidhan	15	06	Moisture stress tolerant
3.	Growing of Contigent crop- pigeonpea in Upland	15	05	Moisture stress tolerant
4.	Summer tomato var.- Chiranjibi	10	01	Heat tolerant
5	Polymulching in vegetables	06	0.2	Moisture conservation
6	Short duration YMV tolerant Greengram var.- IPM 02-14	30	06	YMV tolerant
7	Live stock-Yearling rearing in seasonal farm pond	06	02	Harvested in short period

* Simple and low cost resilient practices are to be scaled up so as to reach as many farmers as possible with minimal cost

D. Module-wise resilient technologies proposed to be demonstrated for the year 2018-19

S. N o.	Module	Climatic constraint addressed	Key intervention	No. of farmers proposed to be involved	Measurable indicator (s)
1	Natural resource management				
	Check dam repairing	delay in monsoon by 2 weeks, terminal moisture stress	community nursery in check dam area	62	Irrigation area, no.of farmers benefitted
	Repair of Defunct well	Water table decreased	Desilting & renovation of open well	16	Water table at monthly interval
	Desilting of farm pond	Delay in monsoon leads to late	Community nursery near farm pond area, life saving irrigation	18	Irrigation area, no.of farmers benefitted

		transplanting, no life saving irrigation in dry spell	to Paddy & rabi crop		
	Raising of farm Bund height- Paddy	Loss of moisture & soil during runoff water	Raising of farm bund height by 1 ft.	08	Moisture content at different time, yield
	Ridge & furrow practices in Cowpea	To increase water use efficiency	Cowpea planted in Ridge	08	No. of Irrigation required, Moisture content of soil
	Ridge & furrow practices in Maize	To increase water use efficiency	Maize planted in Ridge	10	No. of Irrigation required, Moisture content of soil
	percolation tank	Dry spell & No irrigation facility to 2 nd crop	Percolation tank- 15m*10m* 1.5 m	15	Moisture content at different time, yield
	Poly mulching in Tomato, Brinjal	Moisture conservation & to suppress weed growth	50 micron polythene is used in raised beds	04	Weeds/m ² ,moisture content, yield, no.of irrigation required
2	Crop production				
	Paddy- Sahabdagidhan	Drought tolerant	Sahabdagidhan in upland	15	Yield, dry sell
	Paddy- Swarnasub-1	Flood tolerant	Water logging Low land situation	10	Yield, water logging period
	Tomato- Chiranjibi	Heat tolerant	Planted in Feb.	10	Yield, temp.
	Paddy-DRR-42	Drought tolerant	DRR-42 in upland	10	Yield, dry sell
	Groundnut-Devi	Moisture stress tolerant	Cash crop	10	No.of irrigation ,yield
	Pigeonpea-PRG- 176	Short duration	Crop diversification in upland	25	Additional benefit
	Maize-Hybrid super 36	To increase water use efficiency in Ridge & furrow method	Crop diversification in upland	10	Additional benefit
	Greengram IPM-02-14	Short duration & YMV tolerant	Grown in residual soil moisture	25	Yield, moisture content
	Blackgram-PU- 31	Short duration	Grown in residual soil moisture	25	Yield, moisture content
	Intercropping- Maize + cowpea	Better utilization of available resources	Maize + cowpea in 2:1 ratio.	05	Additional benefit

3	Livestock & Fisheries				
	Cattle-Concrete flooring& Roof thatching by straw	To improve sanitation for better milk production	Concrete flooring with bamboo & straw thatching	04	Diseases incidence & milk yield
	Low cost poultry house	Improved housing for adverse climatic condition	Cement pillar with wire mesh	02	Avg. body wt, mortality %.
	Poultry-Kadakhnath	Better adaptability to adverse climatic condition	Backyard poultry rearing	05	Avg. body wt, mortality %.
	Pisciculture	to coop with the decrease water table of seasonal farm pond	Yearling with floating fish feed management	04	Avg. body wt, survivility %.
4	Institutional interventions				
	Custom hiring	To co op up for late agronomic operation	Use of farm implements	64	Efficiency, yield increase

***add rows if required**

ACTIVITIES AND COSTS

2.0 Non-recurring contingencies – Equipment

Proposal for Procurement of farm machinery/ implements for Custom Hiring entre

S. No.	Item	Unit cost* (Rs)	No. of units	Total amount (Rs)
1.	Moisture meter	25000	01	25000
2.	Power weeder	90000	01	90000
	Add rows if required			
	Total NRC 2.0		02	115000

** Wherever possible, subsidy extended by State Government for the machinery to be utilized and accordingly rate adjusted. Wherever required, include equipment for village level small weather station, GPS, rain gauge and any other critical equipment for community interventions.*

3.0 Contingencies

3.1 Module 1 – NRM interventions

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

S. No.	Intervention* and village	Dimensions	No. of units	No. of beneficiaries	Convergence value, if any (Rs)	Value of farmers share (Rs)	Cost to project (Rs)
	Check dam repairing	50m * 20 m	01	62			25000
	Repair of Defunct well	30 m3	4	16			20000
	Desilting of farm pond	80m * 35 m	02	18			14000
	Sub-total 3.1 A			96			59000

**De-silting, deepening & clearing of irrigation/drainage channels, repair of defunct wells etc.*

B) *In situ conservation – Resource Conservation Technologies (RCTs)*

Item (specify the interventions) and village	Unit cost Rs/acre	No. of demos	Coverage		Total amount (Rs)	Remarks
			Area (acres)	No. of farmers		
	A	B	C	D	A x C	
Raising of farm Bund height- Paddy	10000	08	2	08	20000	Water conservation
Ridge & furrow practices in Cowpea	5000	10	2	10	10000	Water conservation
Ridge & furrow practices in Maize	4000	15	05	15	20000	Water conservation
percolation tank	4000	04	0.03	04	16000	Water conservation
Poly mulching in Tomato, Brinjal	20000	04	0.5	04	10000	To check weed population
Sub total 3.1.B		41	9.53	41	76000	

**Support for improved planting methods, in-situ conservation practices; Specify crops for planting methods and all practices*

3.2 Module II – Crop production interventions

A) Stress tolerant / Improved varieties / Short duration / Legume crops

Intervention and village	Description		Cost (Rs/acre)	No. of demos	Coverage		Total amount (Rs)	Remarks (purpose of intervention)
	Crop	Variety (s)			Area (ac)	No. of farmers		
			A	B	C	D	A x C	
Drought	Paddy	Sahabhagidhan	700	15	15	15	10500	To coop with dry spell
Flood	Paddy	Swarnasub-1	1000	15	15	15	15000	To coop with waterlogging
High temperature stress	Tomato	Chiranjibi	10000	10	02	10	20000	Better profit
Short duration varieties (specify)	Paddy	DRR-42	600	20	20	20	12000	Water conservation
Any other stress (specify, add rows if required)- Moisture stress tolerant	Ground nut	Devi	7000	10	05	10	35000	Less water requirement
Crop diversification (to other crops)	Pigeon pea	PRG-176	1200	25	25	25	30000	Better profit
	Maize	Hybrid super 36	2000	10	05	10	20000	Better profit
Agroforestry								
Seed for green / brown manuring								

Seed for legume catch crops (specify)	Greengram	IPM-02-14	2000	25	25	25	50000	Residual soil moisture
	Blackgram	PU-31	2000	25	25	25	50000	Residual soil moisture
Intercropping systems (specify)	Maize + cowpea	Hybrid, Utkal manika	3000	05	02	05	6000	Better profit
Sub Total 3.2 A				145	124	145	248500	

***Add rows for other interventions, if required**

B) Improved agronomic practices and other crop interventions

Intervention		Cost (Rs/acre)	No. of demos	Coverage		Amount (Rs)	Remarks (Purpose of intervention)
				Area (ac)	No. of farmers		
		A	B	C	D	A x C	
Water saving paddy cultivation methods	DSR	700	15	15	15	10500	To decrease water use
	Aerobic						
	SRI						
Community nursery							
Critical inputs for Integrated crop management (specify crop)-vegetable		3000	20	05	20	15000	Pest & disease management
Critical inputs for Integrated Farming systems (specify inputs and crops) Paddy-veg-poultry-mushroom		4000	04	02	04	16000	Sustainable increase of income
Other inputs (soil amendments, soil test based nutrient management, bio-fertilizers, other soil and plant health related inputs etc)		400	25	25	25	10000	Use of micronutrient
Harvesting and post harvesting related interventions							

Facilitating insurance for crops (specify)						
Income generation activities (Mushroom etc)	500/10 beds	20	20	20	10000	Higher Income
Income generation activities (Vegetables etc.)-Sweetcorn	15000	10	02	10	30000	Higher Income
Facilitation of marketing of farm produce						
Any other (specify), add rows if needed- net house	5000	03	0.15	03	15000	Protected cultivation
Sub-total 3.2 B		97	69.15	97	106500	

4.0 Module 3 – Livestock & Fisheries interventions

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

Season	Name of fodder	Variety	Area (ha)	Unit cost of demo (Rs/ha)*	No. of demos	Total amount (Rs/ha)*	Remarks (purpose of intervention & No. of farmers covered)
<i>Kharif</i>	Hybrid napier		0.4	2000	04	8000	Fodder availability in summer
<i>Rabi</i>							
Summer							
	Sub-total 4.1		0.4	2000	04	8000	

*if applicable

4.2 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	No. of demos	Total amount (Rs/ha)	Remarks (purpose of
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	(Rs)			<i>intervention & No. of farmers covered)</i>
a) Silage demos	1000	10	10000	To provide feed in stress period
b) Feed block demos	800	10	8000	To provide feed in stress period
c) Mineral mixture demos	6000	02	12000	To increase milk production
d) Unconventional feed resources (eg., red gram stalks, cotton stalks etc) used in preparation of complete feed				
e) Feeding management & disease control programme in livestock (Total Mixed Ration, Mineral block, medicines & disinfectant solution)				
f) Any other (specify), add rows if needed-Animal health camp	12000	02	24000	To increase immunity
Sub-total of 4.2		24	54000	

**Specify fodder & animal type for demos; here indicate cost of demo, if any; cost of establishment of new units to be given in item 2.0 (equipment), if any.*

4.3 Improved housing / shelter for protection of livestock against extreme weather

Type of shelter improvement *	Unit cost of demo (Rs)	Cost to project (Rs)	Farmer's share (Rs)	No. of demos	Total amount (Rs)	No. of farmers covered	Remarks (purpose of intervention)
Cattle-Concrete flooring& Roof thatching by straw	5000	8000	3000	04	20000	04	Better hygienic condition
Low cost poultry house	5000	7000	2000	02	10000	02	Adverse climatic condition
Sub-total of 4.3		15000	5000	06	30000	06	

**Specify animal type and material used; Plan innovative demonstrations using locally available material*

4.4 Livestock / Fisheries units

A	B	C	D	E	F	G
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 (D x E) (Rs)	Remarks (purpose of intervention & farmers covered)
Poultry- Kadaknath	2000			05	10000	Higher income
Pisciculture	5000			04	20000	Higher income
Sub-total of 4.4				09	30000	

* Stress tolerant breeds/piggery/goatery/duckery/backyard poultry/ fisheries/bee keeping etc.
Also include livestock component of Integrated Farming Systems (IFSs)

5.0 Module 4 – Community interventions

5.1 Establishment of fodder banks (hay)

Name of the SHG	Fodder type	Quantity of storage (t)	Unit cost (Rs.)	No. of units	Amount (Rs.)	Remarks (purpose of intervention & farmers covered)
Sub-total 5.1						

5.2 Establishment of Seed banks

Name of the SHG	Crop and variety	Quantity of storage (t)	Unit cost (Rs.)	No. of units	Amount (Rs.)	Remarks (No. of beneficiaries & Period of use)
	Paddy-Sahabgaidhan	04	5000	01	5000	162/june-july
Sub-total 5.2				01	5000	

6.0. Capacity Building & Training Programmes

6.1 Training Courses proposed

Theme	Title of training course	Proposed month	No. of participants	Cost to project (Rs.)
IPM	Management of Pest & diseases in paddy	August	25	5000
IPM	Management of Pest & diseases in Pulses	Jan.	25	5000
Income generation	Paddy straw Mushroom cultivation	June	25	3000
Income generation	Oyster mushroom cultivation	Oct.	25	3000
Resource conservation	Vermicomposting	Nov.	25	5000
INM	Use of micronutrient in Paddy, vegetables	Aug.	25	3000
Feed management	Application of Floating feed in Pisciculture	Dec.	25	5000
Quality planting material	Nursery raising , Grafting techniques of veg. & fruits	Oct.	25	5000
Sub-total 6.1			225	34000

6.2 Field Days proposed

Theme	Title of training course	Proposed month	No. of participants	Cost to project (Rs.)
Field day .	Field day on short duration Paddy var.- DRR-42	Oct.	60	5000
Field day .	Field day on drought tolerant Paddy var.- Sahabhagidhan	Oct.	60	5000
Field day .	Short duration Greengram var. IPM-02-14	Feb.	70	6000
Field day .	Short duration Blackgram var. PU-31	Feb.	70	6000
Sub-total 6.2			260	22000

6.3 Exposure Visits proposed

Place of visit	Purpose of visit	Proposed month	No. of participants	Cost to project (Rs.)
CHES, CTCRI, WTCER	Awareness on improved technology	Nov. & feb.	40	20000

Sub-total 6.3			40	20000
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7.0 Plan for contingency situations involving various crops during the cropping season 2018-19

Sl. No	Possible contingency situation	Measures envisaged	Unit cost/ acre	No. of farmers to be covered	Cost to project (Rs.)	Remarks
1.	Late onset of monsoon	Crop diversification to maize	1500	20	15000	
2.	Prolonged breaks during the season	Irrigation from check dam & farm pond	-	80	-	
3.	Early withdrawal of monsoon	Short duration Black gram var.	1000	40	10000	
4.	Intense storms					
5.	Temporary flooding/ Water logging due to heavy rains					
6.	Any other, ..					
Sub-total 7.0				140	25000	

8.0 Contractual Manpower (SRFs/YPs)

Category	Rate/month (Rs.)	No. of months	Amount (Rs.)
SRF	28000	12	336000
Sub-total 8.0	28000	12	336000

9.0 Media Products to be developed (video films/brochures/bulletins proposed to be developed)

Item description	No. of copies	Amount (Rs.)
Bulletin on Impact of NICRA activities	1000	10000
Video CD on NICRA success stories	100	8000
Sub-total 9.0	1100	18000

Summary of budget Estimates for 2018-19 (Tentative)

Item number	Title of the Item	Amount (Rs.)
2.0	Procurement of farm machinery/implements for CHC	115000
3.1 A	Repair/ Renovation of existing water harvesting structures & drainage channels etc.	59000
3.1 B	<i>In situ</i> conservation – Resource Conservation Technologies (RCTs)	76000
3.2 A	Stress tolerant/ Improved varieties	248500
3.2 B	Improved agronomic practices and other crop interventions	106500
4.1	Year round fodder production strategies (annual/perennial fodder) in the village	8000
4.2	Feed demonstrations for crop residue management / stress management: silage / feed blocks/ mineral mixture blocks / feed enrichment	54000
4.3	Improved housing /shelter for protection against extreme weather	30000
4.4	Livestock/fisheries units	30000
5.1	Establishment of fodder banks (hay)	
5.2	Establishment of seed banks	5000
6.1	Training courses	34000
6.2	Field days	22000
6.3	Exposure visits	20000
7.0	Plan for contingency measures for various crops during the cropping season 2018-19	25000
8.0	Contractual manpower (SRFs/YPs)	336000
9.0	Media products to be developed	18000
10.0	Any other contingencies (TA , Hiring of vehicle etc)	100000
	Grand total (Rs.)	1287000

Date:

Signature of PC, KVK/ In-charge NICRA

Date:

Signature of Nodal Officer, NICRA-ZPD Zone __