

Annual Report (NICRA-TDC) - 2017-18

Name of the KVK and village:- Ganjam-I, Chopara

Module-1: Natural Resource Management Interventions

Interventions	Technology demonstrated along with the crop and variety*	Critical inputs provided (Machinery, cost for renovation, irrigation systems, seed etc)	No. of farmers involved in the demonstration	Area under practice in the village (ha)		Measurable indicators Crop yields* (q/ha) (Average)		Economics of demonstration (Rs./ha) (Average)			
								Gross Cost	Gross Return	Net Return	BCR
				After intervention	Before intervention	Demo	Local practice				
In-situ moisture conservation measures (BBF/Ridge&furrow/contour trenching/mulcing/conservation furrow/bunding etc...)	Moisture conservation in Paddy – Summer ploughing by MB plough	Tractor hiring	20	6.0	2.0	Paddy-39.7	37.1	30100	58359	28259	1.94
	Sowing of maize in Ridge & furrow method in upland	Seed	14	5.0	2.0	Maize-43.2	37.4	26200	51840	25640	1.98
	Green manuring by Sunhemp. (Sunhemp-paddy)	Seed	10	3.0	1.0	Paddy- 38.6	34.4	31100	56742	25642	1.82
Water harvesting and recycling for supplemental irrigation (Community ponds/farmponds/jalkunds / checkdams/polybag checkdams/wells etc...)	Repairing of Check Dam	cement, stone	42	Paddy irrigation-21ha.	05 ha.	Paddy-39.1	37.2	29100	57477	28377	1.97
	Renovation of Defunct Well-03 nos.	Stone, cement, sand	18	Vegetable-2.0	1.5	Brinjal-184	162	65000	147200	82200	2.26

	Poly mulching in Tomato by 50 micron Polythene	Seedling, polythene	03	0.15	-	Tomato-264	232	60000	132000	72000	2.2
Improved drainage in flood prone areas											
Conservation tillage where appropriate like zero tillage/ minimum tillage etc...											
Artificial ground water recharge measures											
Water saving irrigation methods (Drip/sprinkler/raingun etc...)											
Crop residue incorporation instead of burning											
Any other											

***Mention crop being taken up in each demonstrations**

Module 2: Crop Production Interventions

[illegible]

with terminal heat stress															
Water saving paddy cultivation methods (SRI, aerobic, direct seeding)															
Frost management in horticultural crops through fumigation															
Community nurseries for delayed monsoon															
Custom hiring centres for timely planting															
Location specific intercropping systems with high sustainable yield index															
Moisture tolerant Groundnut var. Devi in Rabi season	Groundnut, var- devi, seed treatment with Rhizobium @ 20gram/kg of seed 01 hour before sowing	Rhizobium, seed, pesticides	10	02	21.40	17.60	21.5	42700	85600	42900	2.0	38100	70400	12637	1.84
Demonstration on High yielding Short duration heat tolerant Blackgram var. PU-31	Blackgram - PU-31, seed treatment with Rhizobium @ 20gram/kg of seed 01 hour before sowing, Foliar application of NPK	Seed, Rhizobium, foliar nutrient, pesticides	25	10	4.9	3.2	53.1	13400	24500	11100	1.83	11400	16000	4600	1.4

	(19:19:19) @ 10 gram/lit at 25 & 40 DAS.,														
Growing of short duration Greengram variety IPM-02-14 to avoid YMV incidence during high temperature	Greengram – IPM-02-seed treatment with Rhizobium @ 20gram/kg of seed 01 hour before sowing ,Foliar application of NPK (19:19:19) @ 10 gram/lit at 25 & 40 DAS.	Seed, Rhizibium, foliar nutrient,pesticides	25	10	5.8	4.3	34.8	13000	23200	10200	1.79	10400	17200	6800	1.65

***Make a separate row for each crop and variety demonstrated**

Module-3: Livestock & Fisheries

[illegible]

storage methods															
Preventive vaccination	Deworming	Vaccine – fenbendazole @7.5/kg/body wt.	12	106 animals (Goat)	Body wt. (gm/month) 970	840	15.4	2800	5892	3092	2.10	2800	5424	2624	1.94
	Animal health camp	Vaccine, deworming	52	642 animals (cattle, goat)											
Improved shelters for reducing heat stress/cold stress/ water logging/ flood and diseases in livestock	Cement flooring with mosquito repellent net for better hygienic for cattle	Cement, sand, stone, mosquito repellent net	04	16 animals											
Introduction of improved breeds															
Management of fish ponds / tanks during water scarcity and excess water															
Improved feeding like location specific mineral mixtures or mineral bricks	Agriminferte @ 50gm/day/animal	Mineral mixture	10	20 animals	Lactation (lt/yr) 1380	1210	14	28000	41400	13400	1.48	26000	36300	10300	1.4
Composite fish culture by stocking of yearlings	Stocking yearlings of	Yearling ,feed	05	02ha	31.20	25.73	21.2	312000	130540	181460	2.39	257300	119670	137630	2.15

of Catla, Rohu and Mrigal	Catla, Rohu and Mrigal @ 5000 nos/ha at a ratio of 3:4:3 with proper water quality management														
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*** Output is in terms of litres (*milk), number (eggs), kgs (meat), kg/ha (fodder yield)**

Module-4: Institutional Interventions

Interventions	Details of activity			Critical input (Breed / Variety / Medicine doses)	No. of farmers involved	Unit / No. / Area (ha)
	Name of crops /varieties Commodity groups Implements	Quantity produced/ Number / Rent / Charges	Technology used in seed / fodder bank & function of groups			
Seed bank						
Fodder bank						
Commodity groups						
Custom hiring centre	Sprinkler	Rs5/Pipe	40 hr	On Hiring basis	71	28
	Power sprayer	Rs.20/hr	32 hr			
	Diesel Water pump Set	Rs.30/hr	20 hr			
	MB plough	Rs.20 /hr	16 hr			
	Mini weeder	Rs.20/hr	36 hr			
	Reaper	Rs.100/hr	16 hr			

	Power thresher cum winnower	Rs.40/hr	12 hr			
	Power tiller	Rs.40/hr	44 hr			
Collective marketing						
Climate literacy through a village level weather station						
Any other (Pl. specify)						

Module-5: Capacity Building taken up (HRD)

Sl. No.	Thematic area	Title of training	No. of Courses	No. of beneficiaries		Date	
				Male	Female	from	to
1	ICM	Off season Tomato cultivation	01	18	07	21.10.17	
2	IPM	IPM in Paddy	01	21	04	24.10.17	
3	ICT	Role of farmer club in climate smart agriculture	01	18	07	30.10.17	
4	Resouce conservation	Resouce conservation	01	21	04	22.02.2018	
5	Integrated crop management	IPM in Pulse crops	01	19	06	03.03.2018	04.03.2018

6	Planting material production	Management of Nursery, grafting technique	01	18	07	19.03.2018	20.03.2018
7	Production & management	Composite Pisciculture	01	22	03	26.03.2018	

Module-6: Extension Activities

Name of the activity	Details about the activity	Number of programmes	Time of the programme conducted	No. of beneficiaries		Remarks
				Male	Female	
Exposure visit of farmers	Exposure visit of farmers	Ganjam-1	01(28.03.2018)	50		Centre of Excellence, Deras Horticulture farm, Bhubaneswar & KVK, PURI
Field days	Field days	Ganjam-1	02(13.09.17 & 18.10.17)	52	15	Blast & BPH Management in Paddy
Method demonstrations	Method demonstrations	Ganjam-1	04 (22.06.17, 18.07.17, 18.10.17, 06.12.17)	68	17	Seed treatment, Weedicide application, alley making)
Awareness	Awareness	Ganjam-1	02(18.07.17 & 27.07.17)	53	23	On PMFBY, soil health management
Others (if any)						

Note: 1) Please don't change format heads. 2) All the required specific information should be given.

7. Rainfall characteristics for the year 2017-18

Kharif 2017		JUNE	JULY	AUGUST	SEPTEMBER	ANNUAL
Rainfall received in (mm)		181	287	270	216	1332
No. of dry spells during kharif season 2017	>10days					
	>15days					
	>20days					
No. of intensive rain spells (2017)	>60 mm per day					
	Water logging observed (days)					
Any other extreme events observed during the season						

7A. Day-wise rainfall distribution in the village during Kharif 2017

		Day														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Rainfall (mm)	June	33.0	2.0	2.0	0.0	11.4	6.2	5.4	0.0	0.0	0.0	7.2	0.0	0.0	0	0.0
	July	6.20	0	0.0	0.0	0.0	0.0	4	8.2	38.4	0.0	3.0	5.0	56.4	26.0	26.4
	August	13.0	25.0	3.0	19.2	0.0	8	0.0	10.0	46.0	0.0	19.0	0	10.0	4.4	0.0
	September	19.0	4.0	16.0	9.6	10.8	0.0	0.0	44.0	6.0	0	0.0	0.0	15.2	7.0	3.0

		Day															
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Rainfall (mm)	June	4.0	0.0	0.0	0.0	0.0	0.0	22.0	0	0.0	54.4	3	0.0	0.0	31.0	0.0	
	July	13.2	14.6	28.0	15.0	0.0	0.0	0.0	13.2	0.0	0	5.2	5.0	14.2	5.2	0	0.0
	August	0.0	0.0	7.0	8.2	0.0	0.0	0.0	0.0	36.0	46.0	0	0.0	9.4	0	6	0
	September	0	0	16.6	15.6	12.4	0.0	0.0	0	0	2	26.4	5	0	0	4	

8. Impact of contingency measures taken up in the village (Relate the dry spells with crops and their growth stages)

S. No	Dry spell (no. of days)	Duration (from --- to---)	Crop name	Crop stage affected	Intervention taken up*	Number of farmers involved	Impact on crop yields (q/ha)		
							Farmers' practice	Demo	Increase over farmers' practice
1									
2									
3									

* List the interventions taken up for each crop

9. Adoption of successful interventions in the NICRA village & the adjoining villages

Successful interventions including crops and varieties	Extent of adoption in the village in ha.					
	2012	2013	2014	2015	2016	2017
Drought resistant short duration Paddy var. Sahabhagi dhan	-	4	9	17	22	28
Maize in Ridge & furrow system	-	2	3	4	5	5
Crop diversification from Paddy to Maize & contingent crop pigeon Pea in upland	-	2	5	7	9	11
Sowing of short duration YMV tolerant Green gram var.	-	3	12	18	28	36
Sowing of short duration Heat tolerant Black gram var.		2	5	9	11	14
Yearling stocking in rainfed farm ponds	-		1	2	3	3

10. Popularization of Climate Resilient Varieties

Crop*	Climate Resilient Varieties incorporated in the Kharif 2017 plan of the State Department	Approx. area brought under the variety by the state department during the Kharif 2017 (ha)
Crop1-Paddy	Variety 1- Sahabhagidhan	8400
	Variety 2-Swarnasub-1	6600
Crop2	Variety 1	
	Variety 2	
Crop3	Variety 1	
	Variety 2	
Crop4	Variety 1	
	Variety 2	
Crop*	Climate Resilient Varieties incorporated in the Rabi2017 plan of the State Department	Approx. area brought under the variety by the state department during the Kharif 2017 (ha)
Crop1 Greengram	Variety 1-IPM 02-14	3400
	Variety 2	
Crop2 Blackgram	Variety 1-PU-31	1800
	Variety 2	
Crop3	Variety 1	
	Variety 2	
Crop4	Variety 1	
	Variety 2	

11. Awards Received during the year for the work related to NICRA

Name of the award	Given by whom	When the award was given

12. Distinguished visitors to the NICRA village during the year

Name of the person	When the visit occurred	Significant comments/ suggestions
D. Indra kumar, member of NITI Ayoga	21.12.2017	

13. Amount (Rs.) mobilized through convergence from various departments

S. No.	Activity/ Intervention	Coverage [No. of farmers/Area (ha)]	Convergence established with (Name of the programme or department)	Approx. amount (Rs.) mobilized

14. Publications and other products developed during the year

15. Significant observations about the project/ the performance of interventions/ adoption of interventions/ livelihood improvement etc..