Annual Report (NICRA-TDC) - 2015-16

Name of the KVK /village:- Ganjam-1/Chopara

Module-1: Natural Resource Management

Interventions	Technology	Critical inputs	No. of	Area under j	practice (ha)	Measurable			ics of demon		
	demonstrated along with the	(Machinery, cost for	farmers benefitted			Crop yield		Gross Cost	Gross Return	Net Return	BCR
	crop	renovation, irrigation systems)		After intervention	Before intervention	Demo	Local practice				
In-situ moisture conservation RCT											
Deep summer ploughing	Paddy	Tractor	10	6	0	37.8	35.4	22300	46020	23720	2.1
Green manuring	Sunhemp- paddy	Seed	10	06	02	36.8	34.1	22300	47840	25540	2.15
Raising of farm bund ht.	Paddy	Labour	03	02	0	37.2	35.1	22900	48360	25460	2.11
Ridge & furrow method	Maize	Seed	05	5	1	43.4	34.6	19200	43400	24200	2.26
Water harvesting and recycling for supplemental irrigation	Check dam renovation	Labour,cement, stone	32	14	4	41.2	38.1	24100	53300	29200	2.21
Improved drainage in flood prone areas											
Conservation tillage where appropriate	Seed cum fertilizer drill	Seed, pesticides	10	6	0	6.6	5.7	12100	27000	15600	2.23
Artificial ground water recharge	Percolation tank	labour	03	0.0027	0	38.8	37	23100	50440	27340	2.18
Water saving irrigation methods	Drip irrigation- tomato	seed	02	0.4	0	24.3	22.0	54000	121500	67500	2.26

Any other (Pl. specify)						

^{*}Mention crop being taken up in each demonstrations

Module 2: Crop Production

Interventions	Technology demonstrated	Critical input (Variety, Fertilizer / Machinery, etc)	No. of farmers benefitted	Are a (ha)	Measi indica yield*	tors of	% increase in yield	Ecoi	nomics of d (Rs./	lemonstrat /ha)	ion	Eco	nomics of l	Local (Rs./	ha)
					Dem o	Local		Gros s Cost	Gross Return	Net Return	BC R	Gros s Cost	Gross Return	Net Return	BCR
Introducing of short duration varieties	Black gram- prasad	Seeds, micronutrient, pesticide	14	04	4.1	5.2	27	1230 0	26000	13300	2.1	1040 0	20500	10100	1.95
Introducing of drought tolerant varieties	Paddy- sahabhagidha n	Seeds,micronutrient,weedicid,pestici de	18	06	22.3	26.8	20	1760 0	37520	21120	2.13	1640 0	31120	15720	1.9
Introducing flood tolerant varieties	Paddy- Swarna sub-1	Seeds,micronutrient,weedicid,pestici de	16	04	39.1	42.3	8.1	2440	59220	34820	2.43	2440	54570	30170	2.24
Advancement of planting dates of rabi crops in areas with terminal heat stress	Green gram- TARM-1	Seeds, micronutrient, pesticide	13	05	5.1	7.4	45	1940 0	44640	25240	2.3	1580 0	30600	14800	1.94
Water saving paddy cultivation methods (SRI, aerobic, direct seeding)															
Frost management in horticulture through fumigation															
Community nurseries for delayed monsoon	Paddy-Pooja	seeds	16	01											
Custom hiring centres for timely planting	Use of farm machinery for timely	Power sprayer, power tiller,MB plough,multicrop thresher	156	59											

	operation													
Location specific intercropping systems with high sustainable yield index														
Cyclone contingent crop	Pigeon pea- asha	seed	10	04	8.2(m aize)	22.3(padd y)	1920 0	41000	21800	2.13	1640 0	31120	15720	1.9

^{*}make a separate row for each crop and variety demonstrations

Module-3: Livestock & Fisheries

Interventions	Technology demonstrated	Critical input (Variety, Breed, etc)	No. of farmers	Unit/ No./	Measurable of ou		% increase	Econ	nomics of d (Rs./		ion	Econ	omics of de local(R		ion -
				Area (ha)	Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Use of community lands for fodder production during droughts / floods															
Improved fodder/feed storage methods															
Preventive vaccination	Animal health camp	Albendazole, vaccines	59	186 No.	Disease %- 07	23	70								
Improved shelters for reducing heat stress in livestock															
Introduction of improved breeds	Poultry bird- Rainbow rooster	Rainbow rooster-200 birds	10	10	Egg laid/yr 118	162	37	185	810	625	4.38	140	590	450	4.2
Management of fish ponds / tanks during water	Stocking yearlings of	Yearling ,feed	03	03/1.2	Survivility-	78%	34	116000	280000	164000	2.41	93500	190000	96500	2.03

scarcity and excess water	Catla, Rohu and Mrigal @				95%	19q/ha.	48				
	5000 nos/ha at				Yield-28						
	a ratio of 3:4:3				q/ha.						
	with proper										
	water quality										
	management										
	and feeding										
	with floating										
	fish feed @ 1%										
	of body weight										
	daily.										
1				20	T	T					
Mineral mixture feeding to cattle	Agriminforte@ 50 gram/day	Mineral mixture	10	20 no.	Lactation- 1400 lt/yr	Lactation- 1125 lt/yr	24.4				

Module-4: Institutional Interventions

Interventions		Det	ails of activity	Critical input (Breed / Variety / Medicine	No. of farmers	Unit / No. /
	Name of crops / Commodity groups / Implements	Quantity / Number / Rent / Charges	Technology used in seed / fodder bank & function of groups	doses,)		Area (ha)
Seed bank	Paddy-sahabhagidhan, Naveen	32q/18/300 per month	Sell to other farmers @ Rs.1700 per quintal & rent is provided from that money	Seeds, pesticides	114	40
Fodder bank						
Commodity groups						
Custom hiring centre	Power sprayer, power tiller,MB plough,multicrop thresher	Power tiller-40/hr Sprayer-20/hr. Pumpset-20/hr Rotary tiller-20/hr Multicrop thresher- 40/hr Mb plough-20/hr Seed cum fertilizer drill-30/hr	Use of different farm machinery for timely operation	Power sprayer, power tiller,MB plough, multicrop thresher	156	59
Collective marketing						
Climate literacy through a village level weather station						
Any other (Pl. specify)						

Module-5: Capacity Building taken up (HRD)

Sl.	Thematic area	Title of training	No. of Courses	No. of ben	eficiaries	Dat	te
No.				Male	Female	from	to
1	IPM	IPM in Paddy	01	18	07	05.08.15	06.08.15
2	Income generation system	Paddy straw mushroom cultivation	01	-	25	07.07.2015	
3	Income generation system	Oyster mushroom cultivation	01	-	25	11.11.2015	
4	Income generation system	Yearling rearing	01	21	04	06.10.2015	
5	Integrated crop management	Resource conservation	01	19	06	11.01.2016	

Module-6: Extension Activities

Name of the activity	No .of KVKs	Number of programmes	No. of be	neficiaries	Remarks
			Male	Female	
Exposure visit of farmers	Ganjam-1	01	19		CPR, Fishery college Berhampur
Strengthen - SHG	Ganjam-1	03	-	38	Awared on income generation activities
Strengthen - kisan club	Ganjam-1	02	28	-	Group activity, record keeping
Integrated farming system	Ganjam-1	01	16	03	Optimum utilization of available resources
Field days	Ganjam-1	02	52	15	Seeing is believing
Method demonstrations	Ganjam-1	04	42	17	Seeing is believing
Awareness	Ganjam-1	02	53	23	On PMFBY, soil health management

Instructions:

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

7. Rainfall characteristics for the year 2015-16

Kharif 2015		JUNE	JULY	AUGUST	SEPTEMBER	ANNUAL
Rainfall received	in (mm)	309	200	223	283	1343
No. of dry spells	>10days				01	
during kharif season 2015	>15days					
seasun 2013	>20days					
No. of intensive rain spells (2015)	>60 mm per day	01			01	
	Water logging observed (days)					

8. Impact of contingency measures (Relate the dry spells with crop and their growth stages)

S. No	Dry spell (no.	Duration (from to	Crop name*	Crop stage	Intervention taken	Number	Impact on cro	p yields (q/ha)
	of days))			up	of		
						farmers	Farmers'	Demo
						involved	practice	
1	10	21.09.15 to 30.09.15	Paddy-MTU-1001	PI stage	Raised farm bund ht. by 3 ft.	06	29.2	34.1
2	25	07.10.15 to 31.10.15	Paddy- MTU-1001	PI stage	Irrigation from	12	27.4	35.6
3	27	04.11.2015 to 30.11.15	Paddy-pooja	Milking stage	Irrigation from	14	34.7	38.3

^{*} Interventions taken up (list them for each crop).

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

Successful Interventions		Extent of adoption	in the village in ha.	
	2012	2013	2014	2015
Drought resistant short duration	-	12	28	94
Paddy var. Sahabhagi dhan				
Maize in Ridge & furrow system	2	8	24	68
Crop diversification from Paddy to Maize & contingent crop	3	7	18	29
pigeon Pea in upland		2	17	26
Sowing of short duration Green gram & black gram var. by seed cum fertilizer drill	-	3	16	26
Yearling stocking in rainfed farm ponds	-	3	7	11