

KVK, BHANJANAGAR, GANJAM-1, ODISHA

Annual Progress Report NICRA (April, 2013 to March, 2014)

Name of KVK: (Bhanjanagar, Ganjam-I)

Village: - Chopara

Module-1: Natural Resource Management

Interventions	Technology demonstrate	Critical input (Variety, Fertilizer / Chemicals doses)	No. of farmers	Area (ha)	Measurable indicators of output*	Economics of demonstration (Rs./ha)			
						Gross Cost	Gross Return	Net Return	BCR
1	2	3	4	5	6	7	8	9	10
In-situ moisture conservation	Moisture conservation in Paddy	Ploughing by MB plough	17	5.0	Summer Ploughing by MB plough	23500	38800	15300	1.65
Water harvesting and recycling for supplemental irrigation	Renovation of old farm ponds	Labour Payment	13	0.5	Irrigation area increased by 8 acre	-	-	-	-
Old farm well renovation	Desilting to increase water storage capacity	Labour Payment	06		Water table increased by 2 ft.				
Green manuring	soil conservation by incorporating Sunhemp	Sunhemp Seeds	12	3.0	pH increased from 5.5 to 5.8	-	-	-	-
Micro irrigation systems	Utilization of available irrigation water through sprinkler	2 sets of Sprinkler	08	2.0		62200	128000	65800	2.05
Recycling of organic matter	Minimization of nutrient cost through Vermicomposting	Vermin, financial assistance for Concrete rings	10	-	Soil status and keeping quality of produce increased	1000	1500	500	1.50
Soil reclamation	Reclamation of acidic soil in Maize by applying	Lime	11	4.0	Yield increase by 12%	22400	48200	25800	2.15

	Lime.														
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Module-2: Crop Production

Interventions	Technology demonstrat e	Critical input (Variety, Fertilizer / Chemicals doses,)	No. of farme rs	Are a (ha)	Measurabl e indicators of output*		% incr ease	Economics of demonstration (Rs./ha)				Economics of Local (Rs./ha)			
					Dem o	Loc al		Gross Cost	Gross Retur n	Net Return	BC R	Gros s Cost	Gro ss Ret urn	Net Return	BC R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Short duration and drought resistant variety	Drought resistant Paddy Var. Khandagiri	Seeds and Micronutrient	14	05	8.4	7.4	13	12300	8400	-3900*	0.68	11700	7400	-4300*	0.63
	Draught resistant Paddy Var. Sahabhagi Dhan	Seeds and Micronutrient	15	05	5.6	4.9	14	11900	5600	-6300*	0.47	11400	4900	-6500*	0.43
Micronutrie nt application	High yielding paddy variety MTU-1001	Seeds and Micronutrient	28	08	18.6	16.8	11	16300	18600	2300*	1.14	15400	16800	1400*	1.09

Application of Weedicide	Application of Pretilachlor in Paddy	Weedicide	15	5.0	17.2	16.4	04	16900	17200	300*	300	15700	16400	700*	1.04
Micronutrient application of Boron @ 2 gram/lt	Micronutrient application of Boron @ 2 gram/lt in Paddy	Boron	24	10	17.7	16.9	04	16300	17700	1400*	1.08	15800	16900	1100*	1.07
ITK	Use of Neem oil @ 5ml/lt at 30 DAT in Paddy	Neem oil	10	02	11.4	10.2	12	15200	11400	-3800*	0.75	14600	10200	-4400*	0.7
Demonstration on HYV of Maize	HYV of Maize- <i>Super-36</i>	Maize seed	05	02	47.5	41.8	13.6	21000	47500	26500	2.26	19600	41800	22200	2.13
Short duration Greengram	Greengram V ar. <i>TARM-1</i>	Seeds,pesticidesMicronutrient	25	10	7.4	5.9	25	13700	29600	15900	2.16	12300	23600	11300	1.92
Blackgram	PU-31	Seeds,pesticidesMicronutrient	14	04	6.8	5.4	21	12900	27200	14300	2.11	11800	21600	9800	1.83
Tomato	High yielding tomato var.BT-10	Seedling,pesticidesMicronutrient	16	02	214	187	14	46200	107000	60800	2.32	42400	93500	51100	2.20

Chilli	High yielding chilli var. pusa jwala	Seedling	06	0.1	81.4	68.2	19	68300	162800	94500	2.38	63900	136400	72500	2.13
Mushroom cultivation	Oyster mushroom (<i>Pleurotus sajarcaju</i>) cultivation	Mushroom cultivation	10	100 beds	1.6	1.3	23	40	96	56	2.4	30	52	22	1.73
Brinjal	High yielding brinjal var. blue star	Seedling	08	0.4	218	188	16	43500	109000	66400	2.50	40800	94000	53200	2.30
Cauliflower	High yielding cauliflower var. Krishna-1	Seedling	06	0.1	164	142	15	53000	131200	78200	2.47	49200	113600	64400	2.31
Kitchen garden	Kitchen garden	Seedling	03	03 Units	14	12.8	09	5300	4200	-1100	0.79	4700	38400	-860	0.82

*Low yield & income due to cyclone affect.

Chilli, Tomato, Brinjal & cauliflower seedlings were given as cyclone contingent crop.

Module-3: Livestock & Fisheries

Intervention s	Technology demonstrate	Critical input (Variety, Fertilizer / Chemicals doses,)	No. of farmer	Unit / No. / Area (ha)	Measurable indicators of output*		% increase	Economics of demonstration (Rs.)				Economics of local (Rs.)			
					Demo	Local		Gross Cost	Gross Retur n	Net Retur n	BC R	Gross Cost	Gross Retur n	Net Retur n	BC R
1	2	3													
Improved fodder/feed storage methods	Supplementa ry feed	Mineral mixture	24	70 no.	1400 l/laction	1125 l/lactati on	25.0	2070 0	36400	15700	1.7 6	1720 0	29250	12050	1.7
De-worming to protect the livestock from worms and reduce calves mortality	Deworming with Albendazole @ 30 ml/ Calf	Albendazol e	40	72 nos.	-	06 % mortali ty	Decreasi ng mortality 100%								
Preventive vaccination	Animal Health Camp	Convergen ce with Veterinary Departme nt	86	264 Ani mal	-	-	-	-	-	-	-	-	-	-	-
Composite Pisciculture	Stocking yearlings of IMC @ 5000/ ha	Yearlings of IMC	12	1 ha	32.75 q/ha	24.50 q/ha	34	1,12, 500	2,94,7 50	1,82,2 50	2.6 2	96,71 0	2,20,5 00	1,23,7 90	2.2 8

Intervention s	Technology demonstrate	Critical input (Variety, Fertilizer / Chemicals doses,)	No. of farmer	Unit / No. / Area (ha)	Measurable indicators of output*		% increase	Economics of demonstration (Rs.)				Economics of local (Rs.)			
					Demo	Local		Gross Cost	Gross Retur n	Net Retur n	BC R	Gross Cost	Gross Retur n	Net Retur n	BC R
1	2	3													
Dual purpose poultry bird	Dual purpose poultry bird – Rainbow rooster	Rainbow rooster	10	100n o birds	2.7kg bodt weight	1.4kgbo dy weight	93	145	360	215	2.4 8	105	190	85	1.8 0
Fodder crop	Growing of Oat as fodder crop	seed	02	0.05	CONT.										

Module-4: Institutional Interventions

Interventions	Details of activity			Critical input (Breed / Variety / Medicine doses,)	No. of farmers	Unit / No. / Area (ha)
	Name of crops / Commodity groups / Implements	Quantity / Number / Rent / Charges	Technology used in seed / fodder bank & function of groups			
1	2	3	4	5	6	7
Seed bank	Paddy	-	High Yield seed	Khandagiri, Sahabhagi Dhan	34	14
Commodity groups	6	16 member	Village Climate Risk Management Committee (CRMC): to take up the overall activities of the project	All types of help and commodity during disaster collected from different source.	114 farm family	54

Custom hiring centre	Sprinkler (2 Nos)	Rs. 5/- per pipe Per day	Irrigation	Implements	10	2ha
	Power tiller	Rs.40/- per hour	Ploughing	Implements	44	18ha
	Power sprayer (1 nos.)	Rs. 30/- per hour	Disease control	Implements	14	04ha
	Diesel Water pump Set (2HP)	Rs 20 /-per hour	Irrigation	Implements	12	5ha
	Multi crop thresher	Rs. 40/- per hour	Harvesting	Implements	28	-
	MB plough	Rs 10 /- per day	Tillage	Implements	18	4ha
	Garuda Mini weeder	Rs 20 /-per hour	Weeding	Implements	10	8 ha
	Seed –cum- fertilaizer Drill	Rs 50 /-per hour	Sowing	Implements	08	2ha

Capacity Building (HRD):

Sl. No.	Thematic area	Title of training	No. of Courses	No. of beneficiaries		Date
				Male	Female	
1	2	3	4	5	6	7
1	Exposure visit	OUAT, CHES, CTCRI and CRRI, Cuttack visited	2	30	-	24 th and 25 th August 2013 and 22 nd Dec, 2013

2	Crop diversification	Natural resource management	1	17	08	22 th June 2013
	Crop management	Pest and disease management in Paddy	1	20	5	12 th August 2013
	Fodder and feed management	Live stock management	1	20	5	21 th sept. 2013
	Nursery management	Nursery management of vegetables	1	19	06	08 th Nov. 2013
	Mushroom cultivation	Oyster mushroom cultivation	01	-	25	17 th December, 2013

Extension activities

Sl. No.	Thematic area	Title of Field Day	No. of Courses	No. of beneficiaries		Date
				Male	Female	
1	2	3	4	5	6	7
1	Method demonstration	Soil sample collection, SRI Paddy, Power Sprayer, Pheromontrap installation, Seed treatment, Biofertiliser inculcation, Application paper mill sludge, Application of Tricho card	09	123	62	8-4-2013, 4-5-2013, 11-6-2013, 9-7-2013, 06-01-14, 22-01-14
2	Farmer and scientist interaction	Climate resilient technology, SRI Paddy, application micronutrients, management practices of crops, use of Pheromone trap , use of bio-agent, Seed treatment, Biofertiliser application, Wilt management in vegetables	2	74	26	21-6-2013, 17-9-2013
3	Diagnostic field visit	SRI Paddy, management practices of crops, management practices of vegetables, use of bio-agent, Seed treatment, Micro nutrient application, Lime application in maize, Intercropping	16	74	23	27-4-2013 13-6-2013, 8-7-2013, 2-8-2013, 14-8-2013, 22-10-2013, 25-11-2013, 17-01-14, 22-01-14, 20-02-14

4	Group discussion	Discuss about IPM for paddy Stem Borer, Foliar application of micronutrient in Paddy and pulses, Short duration Paddy variety	14	82	17	9-5-2013, 1-6-2013, 22-6-2013, 27-9-2013, 31-10-2013, 02-01-14,06-02-14
5	Monitoring of field works	Interaction made with farmer group on cultivation practices vegetables, Possible suggestion given to farmers regarding demonstration trails	14	78	34	1-6-2013,10-6-2013, 19-6-2013, 1-7-2013,6-8-2013,22-8-2013, 3-9-2013, 15-10-13,27-10-13,04-12-13
6	Field day	Improved Cultivation method of drought resistant Paddy Var.Sahabhagi dhan & Khandagiri Cultivation of Maize in waste up-lands	2	63	26	11-11-2013, 27-11-2013, 24-03-14

Status of custom hiring Services

NICRA –KVK Ganjam-I

S. No.	Name of implements	Date of Purchase	Operational performance		Revenue Generated (Rs.)	No. of Farmers benefited
			No. of hrs.	Area covered (ha)		

1.	Sprinkler (2 Nos)	31th March 2011	35	2ha	1050/-	10
2.	Power tiller	31th March 2011	220	18ha	8800/-	44
3.	Power sprayer (1 nos.)	31th March 2011	40	04ha	1200/-	14
4.	Diesel Water pump Set (2HP)	31th March 2011	38	5ha	760/-	12
5.	Multi crop thresher cum winnower	31th March 2011	60	-	2400/-	28
6.	MB plough	31th March 2011	25	4ha	1000/-	18
7.	Garuda Mini weeder	31th March 2011	20	8 ha	400/-	10
8.	Seed cum fertilizer drill	31th March 2011	8	2ha	400/-	08

Monitoring of NICRA projects

NICRA –KVK, Bhanjanagar, Ganjam-I

S.No.	Name of KVK	Name of NICRA Village	Name & designation of visitors	Date	Remarks If Any
1	Ganjam-I	Chopara	Mr. Prasanta Ku. Panda, SMS (P.P), Debasis Sadangi, SMS (Soil.Sc.) Co-PI,	8-4-2013, 4-5-2013, 11-6-2013,9-7-2013	Discussion made on Soil test and collection n of soil

S.No.	Name of KVK	Name of NICRA Village	Name & designation of visitors	Date	Remarks If Any
					samples
2	Ganjam-I	Chopara	Debasis Sadangi, SMS (Soil.Sc.) Co-PI Prasanta Ku. Panda, SMS (P.P), Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Debasis Sadangi, SMS (Soil.Sc.), Mr. S.S.Das, SMS (Fishery Science), Dr. Smrutirekha Mallick SMS (Animal Sc.)	21-6-2013, 17-9-2013, 16-10,13, 11-11-13,	Group discussion was made on disease and pest incidence and its management and its practices
3	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P), Debasis Sadangi, SMS (Soil.Sc.) Co-PI, Mr. S.S.Das, SMS (Fishery Science), Dr. Smrutirekha Mallick SMS (Animal Sc.)	27-4-2013 13-6-2013, 8-7-2013, 2-8-2013, 14-8-2013,	Discussion made on short duration Paddy variety
4	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project), Mr. Prasanta Ku. Panda, SMS (P.P), Debasis Sadangi, SMS (Soil.Sc.) Co-PI, Mr. S.S.Das, SMS (Fishery Science), Dr. Smrutirekha Mallick SMS (Animal Sc.)	22-10-2013, 25-11-2013	Interaction made on area specific high yielding variety of Paddy
5	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P), Debasis Sadangi, SMS (Soil.Sc.) Co-PI, Mr. S.S.Das, SMS (Fishery Science), Dr. Geetanjali Subudhi, SMS (Home Sc.), Dr. Smrutirekha Mallick SMS (Animal Sc.)	9-5-2013, 1-6-2013,	Suggest for supplementary feeding & Nursery preparation for Paddy & Green manuring
6	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project), Debasis Sadangi, SMS (Soil.Sc.) Co-PI Prasanta Ku. Panda, SMS (P.P), Dr. Geetanjali Subudhi, SMS (Home Sc.)	22-6-2013, 27-9-2013,	Discuss about cultivation Maize cultivation
7	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project), Debasis Sadangi, SMS (Soil.Sc.) Co-PI Prasanta Ku. Panda, SMS (P.P), Dr. Geetanjali	31-10-2013, 1-6-2013	Discuss about custom hiring centre &

S.No.	Name of KVK	Name of NICRA Village	Name & designation of visitors	Date	Remarks If Any
			Subudhi, SMS (Home Sc.),		maintenance of implements
8	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project), Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy)	10-6-2013, 19-6-2013	Transplanting and application of Weedicide
9	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project), Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy)	1-7-2013,6-8-2013	Management of Insect, pest in Paddy & groundnut
10	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy)	22-8-2013, 27-12-2013	Application of Micro nutrient
11	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy), S.K.Samantaray SMS (Agril. Extension)	3-9-2013, 27-12-2013	Improved Cultivation Practices of Groundnut
12	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy), S.K.Samantaray SMS (Agril. Extension)	27-11-2013 11-11-2013	Field day, Discussion about Vermii composting & Oyster mushroom in backyard
13	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy),	25-6-2013, 26-12-2013	Discussion about Vermii composting & Oyster mushroom in

S.No.	Name of KVK	Name of NICRA Village	Name & designation of visitors	Date	Remarks If Any
			S.K.Samantaray SMS (Agril. Extension)		backyard
14	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), Mr. Tiryak Ku. Samant SMS (Agronomy), S.K.Samantaray SMS (Agril. Extension)	5-7-2013, 19-12-2013	Demonstration on Oyster mushroom, Diagnostic visit
15	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Mr. Tiryak Ku. Samant SMS (Agronomy), S.K.Samantaray SMS (Agril. Extension)	26-7-2013, 12-12-2013	Discussion made on Greengram/ Blackgram cultivation
16	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension)	12-8-2013, 08-01-14	Discussed about importance of seed treatment
17	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension), Dr. Smrutirekha Mallick SMS (Animal Sc.)	21-8-2013, 19-11-2013	Field visit and monitoring of disease/ pest
18	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension), Dr. Smrutirekha Mallick SMS (Animal Sc.)	26-8-2013, 25-10-2013, 31-12-2013	Field visit and monitoring of disease/ pest and Marketing linkages
19	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator (PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, S.K.Samantaray SMS (Agril. Extension),	31-8-2013, 17-10-2013,9-1-14	Group discussion was made on disease and its management in

S.No.	Name of KVK	Name of NICRA Village	Name & designation of visitors	Date	Remarks If Any
			Dr. Smrutirekha Mallick SMS (Animal Sc.)		domestic animals
20	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension), Dr. Smrutirekha Mallick SMS (Animal Sc.)	6-9-2013, 3-10-2013, 10-10-2013, 4-1-14	Interaction made with farmer group on cultivation of summer vegetables, feed management of domestic animals
21	Ganjam-I	Chopara	Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension), Dr. Smrutirekha Mallick SMS (Animal Sc.)	30-11-2013, 3-12-2013, 9-12-2013, 20-12-12, 03-01-14, 09-01-14	Discussed about desilting of Farm wells , Cultivation of Tomato, Brinjal, Chilli & Cauliflower as contingent crop
22	Ganjam-I	Chopara	Dr S.K.Satapathy, Programme Coordinator(PI. of the project),Prasanta Ku. Panda, SMS (P.P) Co-PI, Dr. Geetanjali Subudhi, SMS (Home Sc.), S.K.Samantaray SMS (Agril. Extension), Dr. Smrutirekha Mallick SMS (Animal Sc.)	31-8-2013,13-6-2013, 28-12-2013,07-01-14, 22-01-14	Discussed about renovation of farm pond , Cultivation of Green gram, Black gram