

KRISHI VIGYAN KENDRA-GANJAM-I**NICRA Annual Report 2022-23****2. Module I : NRM****Table. Performances of demonstration of in-situ moisture conservation technologies**

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)	Economics of demonstration (Rs/ha)		
				Gross Cost	Net Return	BCR
Green manuring (Dhaincha) in rice-Swarna Shreya	40	16	36.2	35000	37400	2.07
Brown manuring in rice						
Summer Ploughing in rice	22	06	38.4	37000	39800	2.01
Azolla in Paddy						
Zero Tillage in wheat / Maize/ Others crops						
Repair of bund(raising of Farm bund ht. to 10 inch)/Rice- MTU-1224	21	05	36.3	37000	35600	1.86
Horticultural production through land embankment development						
Organic mulching in vegetables						
Mulching-Brinjal	10	0.4	274.2	132000	142200	2.01
Mulching In Tomato	10	0.4	284.2	120000	107360	1.89
Maize in Ridge & furrow system	16	04	44.2	34000	36720	2.08
Total	119	31.8				

Mention the variety and Enclosed 2/3 photos

Table. Performances of water harvesting and recycling for supplemental irrigation

Technology demonstrated	No. of farmer	Area (ha)/Unit	Output (q/ha)	Economics of demonstration (Rs/ha)		
				Gross Cost	Net Return	BCR
Renovation of pond for fish production and irrigation	02	0.6/02	28.4	130000	284000	2.19
Renovation of canal						
5% Model						
Bora bandh						
Renovation of Well for irrigation(Onion)	02	02	224.2	110000	224200	2.04
Bund making leveling in paddy field						
New water harvesting structure						
Raising of land embankment						

Ground water recharge						
Desiltation of defunct water harvesting structures						
Renovation of irrigation channel						
Newly Check dam						
Renovation of common pond (Rice-Pooja)	08	0.4/01	42.2	41000	82400	2.0
Any intervention not covered in above						
Total	12	3/03 unit				

Enclosed 2/3 photos

Table. Performance of artificial ground water recharge technologies demonstrated

Technology demonstrated	No. of farmers	Area (ha)	Output (q/ha)	Economics of demonstration (Rs./ha)		
				Gross Cost	Net Return	BCR
Field bunding for rice						
Water management through bunding of rice						
Ground water recharge through SRI by sub-soiler						
Any intervention not covered in above						
Total						

Enclosed 2/3 Photos

Table. Performance of different water saving irrigation methods

Technology demonstrated	No. of farmers	Area (ha)	Output (q/ha)	Economics of demonstration (Rs./ha)		
				Gross Cost	Net Return	BCR
Irrigation system (micro Irrigation system) –Brinjal	02	0.16	286.6	138000	148600	2.08
Application of biofertilizer in rice/crops(Greengram-IPM 02-14)	38	10	6.4	18000	14000	1.78
Vermi-compost from biodegradable wastes -Tomato	06	06 units	292.4	120000	113920	1.95
Production of crops on farm bund-Pigeonpea	22	05	0.8	1800	3000	2.67
RBF in crops						
LEWA in crops						
Sprinkler irrigation in crops						
Any intervention not covered in above						
Total	68	15.16/06 unit				

Mention the variety and Enclosed 2/3 photos

Table. Performance of other demonstrations

Technology demonstrated	No. of farmers	Area (ha)	Output (q/ha)	Economics of demonstration (Rs./ha)		
				Gross Cost	Net Return	BCR
Demo 1						
Demo 2						
Others if any						
Total						

Enclosed 2/3 photos

Table: Rainwater harvesting structures developed

RWH structures	No.	Storage capacity (cu.m)	No. of farmers	Protective irrigation potential (ha)	Increase in cropping intensity (%)
Desilting Pond					
New Pond created					
Pond Renovation	01	3600	07	01	0.6
Canal					
Checkdam	01	7200	34	12	02
5% model					
Pyne					
Well					
Inlet Channel					
Desilting drainage channel					
Bora bandh (Temporary check dam)					
Repaired well	02	30	02	0.2	0.2
Jalkund					
Small ditches for jute retting					
Landshaping and rain water harvesting structure					
Total	04	10830	43	13.2	2.8

Enclosed 2/3 photos

Module II: Crop Production

Table. Performance of different drought tolerant varieties

Technology demonstrated Crops with varieties	No. of farmers	Area (ha)	Yield(q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Drought tolerant paddy (var. <i>Sahbhagi dhan</i>)	30	10	24.8	21.6	14.81	27000	22600	1.84
Drought tolerant paddy (var. –Swarna Shreya)	32	10	36.2	32.1	12.7	35000	37400	2.07
Crop 3								
More if any								
Total	62	20						

Mention the variety and Enclosed 2/3 photos

Table. Performance of different salt tolerant paddy varieties

Technology demonstrated (Crops with varieties)	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Crop I								
Crop 2								
Crop 3								
More if any								
Total								

Enclosed 2/3 photos

Table. Performance of different flood tolerant varieties

Technology demonstrated (Crops with varieties)	No. of farmers	Area (ha)	Yield		% increase	Economics of demonstration (Rs./ha)		
			(q/ha)			Gross Cost	Net Return	BCR
			Demo	Local				
Flood tolerant Rice var.-Swarna sub1	56	20	44.2	40.6	9.3	42000	46400	2.10
Total	56	20						

Mention the variety and Enclosed 2/3 photos

Table. Performance of advancement of planting dates in different crops

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Rice-Grengam (Swarna sub-1- &IPM 02-14) Rice	18	06	44.8	40.6	10.3	42000	47600	2.13
Greengram	18	06	6.8	5.6	21.4	18000	16000	1.88
Crop 3								
More if any								
Total	18	06						

Mention the variety and Enclosed 2/3 photos

Table. Performances of water saving technologies

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Water saving technology through SRI								
Aerobic Rice								
Direct seeded brown manured rice								
DSR	30	10	24.8	21.6	14.81	27000	22600	1.84
Sowing of rice/ wheat / Maize with ZTD machine								
Others if any								
Total	30	10						

Mention the variety and Enclosed 2/3 photos

Performance of Community nurseries

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Crop I								
Total								

Mention the variety and Enclosed 2/3 photos

Table.Performance of different location specific intercropping systems

Technology demonstrated	No. of farmers	Area (ha)	Yield(q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Maize(Kalinga raj)+ Cowpea (VNR) intercropping	05	01	43.2 32.4	41.6	95.8	48000	53520	2.11
Total	05	01						

Mention the variety and Enclosed 2/3 photos

Table. Performance of different crop diversification in NICRA villages

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Crop diversification from Rice to Ragi in upland	10	02	12.6	10.4	21.1	26000	24400	1.94
Crop diversification from Rice to Maize in upland in Kharif season	16	04	44.2	24.6	79.6	34000	36720	2.08
Crop diversification from Maize to Sweet corn in Rabi season	10	01	44000 cobs	44000cobs		85000	135000	2.59
Total	36	07						

Mention the variety and Enclosed 2/3 photos

Table. Performance of other demonstration under crop production module

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Wilt tolerant Brinjal var.- Swarna Shyamali	10	01	274.2	242.6	13	132000	142200	2.01
YMV & heat tolerant Greengram var. IPM 02-14	14	04	6.4	5.1	25.4	18000	14000	1.78
HYV Blackgram-PU-31	28	10	5.6	4.3	30.2	17000	16600	1.97
Low cost poly house for raising of vegetable seedling(36000/yr)	02	02 units	3.6 % mortality	25.1 % mortality	85.6	7000	10280	2.47
Total	54	15/02 units						

Mention the variety and Enclosed 2/3 photos

Module III : Livestocks and Fisheries

Table. Performance of different fodder demonstration in community lands

Technology demonstrated	No. of farmers	Unit/ Area (ha)	Output (q/ha)		% increase	Economics of demonstration (Rs/ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Fodder 1								
Fodder 2								
Total								

Mention the variety and Enclosed 2/3 photos

Table. Performance of improved fodder

Technology demonstrated	No. of farmers	Unit/ Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Hybrid napier C0-4	14	3.4	2520lt milk/yr	2230lt milk/yr	13	29000	46600	2.61
Fodder 2								
Total	14	3.4						

Mention the variety and Enclosed 2/3 photos

Table. Performance of various vaccination camps organized

Technology demonstrated	No. of farmers	Unit/ No./ Area (ha)	Measurable indicators of output* (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Vaccination camp against FMD& other disease Cattle	68	68/92	1090 lt. milk/yr	940lt. milk/yr	15.9	17000	15700	1.92
Vaccination for PPR in goat	06	06/74	Body wt(90days) 7.8kg	6.3 kg	23.8	1000	1730	2.73
Deworming	52	52/76	1080lt. milk/yr	880lt. milk/yr	22.7	17000	15400	1.85
Mineral mixture	10	10units (20cattle)	2040lt.milk/ yr	1810lt.milk/ yr	12.7	27000	34200	2.27
Proper De-worming								
Vaccination camp against other diseases								
Total	136	136						

Enclosed 2/3 photo

Table. Performance of composite and cat fish in the renovated ponds

Technology demonstrated	No. of farmers	Unit/ No. / Area (ha)	Measurable indicators of output* (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Composite fish culture by stocking of yearlings of Catla, Rohu and Mrigal with floating fish feed	03	03/1.2	32.2 q fish yield	26.6	21	194000	256800	2.32
Cat Fish 2								
Total	03	03/1.2						

Enclosed 2/3 photo

Table. Performance of livestock demonstration in NICRA adopted villages

Technology demonstrated	No. of farmers	Unit / No. / Area (ha)	Measurable indicators of output* (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
Poultry-Kadaknath	16	16units(400birds)	2.2kg at 06 month	1.2 kg at 06 month	66.6	120	232	2.93
Breed 2								
If any more								
Total	16	16/400						

Enclosed 2/3 photo

Table.Performance of improved shelters for poultry and dairy animals

Technology demonstrated	No. of farmers	Unit/ No. / Area (ha)	Measurable indicators of output (q/ha)		% increase	Economics of demonstration (Rs./ha)			
			Demo	Local		Gross Cost	Gross Return	Net Return	BCR
Improved cattle shed with concrete flooring, Straw thatched, Mosquito net	08	08units	920lt.milk/year	800lt. milk/year	15	13000	27600	14600	2.1
Total	08	08 units							

Enclosed 2/3 photo

Module III: Institutional Intervention

Table. Details of the various institutional interventions

Interventions	No.of KVKs	Details of activity			No. of farmers	Unit/ No. /Area (ha)
		Name of crops / Commodity groups / Implements	Quantity (q) / Number / Rent / Charges	Technology used in seed / fodder bank & function of groups		
Seed bank		Rice-Sahabghaidhan	22q	HYV, Direct sowing, Rogouing, threshing, winnowing	04	1.0
Fodder bank		Hybrid Napier CO-4, Sugarcane	46q/ha	Slips @ 20000/ha planted in well ploughed field with spacing of 100 cm*50 cm, FYM added to	05	1.0

		grass		field @ 15ton/ha, NPK in 50:80:60 at time of planning, 1st cut at 90 days and subsequent cuts at 45-60 days intervals		
Commodity groups						
Custom hiring centre		Power tiller, sprayer, reaper, diesel pump set, weeder, Thresher cum winnower, MB Plough	Timely agricultural operation at low cost	Implements on hiring basis	104	34
Collective marketing						
Climate literacy through a village level weather station						
Total			68		114	36

Enclosed 2/3 photo

Village Climate Risk Management Committee (VCRMC)

A short note of activities with photographs

Designation	Name of the candidate
President	Rabindra Pradhan
Secretary	Pradeep Pradhan
Treasurer	Bhaskar Majhi
Members	
1.	Mochhia Majhi
2.	Ulla Dakua
3.	Dandasi Pradhan
4.	Sudhansu Pradhan
5.	Anil Pradhan

Custom Hiring Centres:

Detail activities of CHC with fund generation during the year with Photographs of Farm implements and Machinery at NICRA Adopted villages

Table. Revenue generated through Custom hiring Centres and VCRMC in KVKs

Name of KVK	Revenue generated (Rs.)	
	From Custom Hiring Centres (2022-23)	Total under VCRMC
Cooch Behar		
Malda		
South 24 Parganas		
North 24 Parganas		

Purulia		
Kalimpong		
Murshidabad		
Port Blair		
Ganjam 1	14300	4700
Kalahandi		
Kendrapara		
Bhadrak		
Bolangir		
Keonjhar		
Dhenkanal		
Puri		
Jagatsinghpur		
Total		

Capacity Building

Thematic area	Topic of the training	No. of Courses	No. of beneficiaries		
			Male	Female	Total
Natural Resource Management	Vermicomposting & use of Bio fertilizer in crops	01	17	8	25
Crop Management					
Nutrient Management					
Integrated Crop Management	ICM in Greengram	01	14	11	25
Crop Diversification					
Resource conservation Technology					
Pest and disease management	IPM in Rice	01	15	10	25
Nursery raising	Nursery raising, grafting techniques in fruits	01	20	5	25
Employment Generation					
Nutrition garden					
Repair & Maintenance of					

farm machinery & Implements					
Integrated Farming System					
Livestock and Fishery Management					
Fodder and feed management					
Value addition	Preparation of Tomato Sauce	01	-	25	25
Employment generation					
Others if any					

Enclosed 2/3 Photographs
Extension Activities

Name of the activity	Number of Programmes	No. of beneficiaries		
		Male	Female	Total
Agro advisory Services	22	88	52	140
Awareness	01	41	14	55
Diagnostic visit	14	63	24	87
Exposure visits	02	40	-	40
Field Day	03	112	38	150
Group Discussion	12	106	22	128
Method demonstrations	05	82	34	116
KMAS Services	48	88	52	170
Farmers day				
SHG				
Campaign				
Popular extension literature	02	180	70	250
Animal Health Camp	02	54	14	68
World earth day				
Krishak Chaupal				
Kishan Gosthi				
Woman health and nutrition				

Technology week				
NICRA Workshop at ATARI, Kolkata				
Scientist visit to field				
Others if any				
Total	122	878	316	1194

Enclosed 2/3 photographs

Table: Convergence of Ongoing Development Programmes/Schemes in NICRA implementing KVKs

KVK	Development Scheme /Programme	Nature of work	Amount (Rs.)
Ganjam-I	MGNREGA	Check dam construction	540000
	Woman empowerment by CIWA, Bhubaneswar	Capacity building of Woman farmers	80000
	AICRP on Goat, OUAT	Improvement of Goat breed	90000
	NFSM of Agril. Dept.	Minikit-HYV seed	60000
	NBPGR, New Delhi	Drudgery reducing implements	100000
	Total		870000

Table- SHC card distribution at NICRA adopted village

KVK	Year	No of soil samples collected	No. of samples analysed	SHC issued	No of Farmers involved
Ganjam-I	2022-23	24	24	82	82

Enclosed 2/3 Photographs

Dignitaries visited NICRA Villages during 2022-23

Name of KVK	Name of VIPs/Experts	Date of visit
Ganjam-I	Prof. Pravat Kumar Roul, Hon'ble Vice-Chancellor, OUAT, Bhubaneswar	22.02.2023

Enclosed 2/3 Photographs

- Success stories of NICRA Village Farmers with photographs
- Newspaper coverage
- Publication

Expenditure Statement of NICRA-TDC Budget during 2022-23

KVK	FINAL RE (lakhs)				Expenditure (lakhs)	Closing Balance 01.04.20
	Contingencies	TA	NRC	Total		
Cooch Behar						
Malda						
South 24 Parganas						
North 24 Parganas						
Purulia						
Kalimpong						
Murshidabad						
Port Blair						
Ganjam 1	8.78	0.6	1.15	10.53	10.53	Nil
Kalahandi						
Kendrapara						
Bhadrak						
Bolangir						
Keonjhar						
Dhenkanal						
Puri						
Jagatsinghpur						

Sd/-
Senior Scientist & Head
KVK,Ganjam-I, Bhanjanagar