

Annual Progress Report 2024-25
NICRA-TDC PROJECT, KVK, Dhenkanal

NICRA Activities

KVK	Name of NICRA Village	Climate vulnerability
Dhenkanal	Arachua	Drought
	Ichhapur	Drought

(Give module-wise results)

Module I: NRM

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
Summer Ploughing in rice	125	50	42	32500	37000	2.13
Horticultural production through land embankment development	20	7	216	108500	112000	2.03
Micro irrigation system	03	0.7	-	-	-	-
Mulching in vegetables	15	1.5	227	146750	178000	2.21
Farm pond	03	3 nos.	215	105000	110000	2.05
Vermi-compost from biodegradable wastes	50	50 nos.	10.0 q/unit	5000/unit	10000/u nit	3.0
Total	166	59.2				

Module II: Crop Production

Performance of different stress tolerant variety of crop 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
Demonstration on multiple stress tolerant rice variety "Swarna Samriddhi Dhan "	50	25	44	38	15.78	32500	37000	2.13
Demonstration on Stress tolerant rice variety "Swarna Shreya"	25	15	43	37	16.21	33000	35750	2.08
Demonstration on finger millet variety "Arjun"	10	01	13	10.5	23.80	33,500	46,550	2.38
Demonstration on Stress tolerant high yielding	50	12	145	115	26.08	63700	168000	3.63

Technology demonstrated	No. of farmers	Area (ha)	Yield (q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross Cost	Net Return	BCR
cowpea variety "Kashi Kanchan"								
Demonstration on Stress tolerant Black gram var. IPU- 11-02	40	20	6.5	5.5	18.18	24500	48200	2.96
Demonstration on plantation of fruit plants in homestead land	50	5	-	-	-	-	-	-
Demonstration on drought tolerant/ improved varieties of vegetable (Brinjal, Tomato, Chilli, Cauliflower, Cabbage, Broccoli, Cucumber & Okra)	50	20	180	132	36.36	98,500	2,70,000	3.74
Income generation activities through mushroom cultivation (oyster and paddy straw mushroom)	30	30 units	1 kg	750 g	33.33	80	140	2.75
Total	305	123						

Module III: livestock demonstration

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
Demonstration on Stress tolerant backyard poultry rearing (Aseel, Kadaknath)	75	75	1.5kg / bird Egg-85	1.2 kg / bird Egg-70	25	170/ bird	450 / bird	3.64

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
Demonstration on fish production in farm pond (11,000 fingerlings)	06	06	-	-	-	-	-	-

Institutional interventions (Custom Hiring Centre) taken up during the year 2024-25

Custom hiring centre started year	Implements	Amount mobilised (₹)	Farmers covered	Area covered (ha)	Total amount under VCRMC	Remarks
2024-25	Power Weeder	5000	45	24	21,500/-	- Farmers accessed the costly farm machinery at affordable rate. - Facilitated timely farm operations which ultimately reduced the cost of cultivation and increased profitability. - Labour efficiency, reduced drudgery and promoted the adoption of climate-resilient practices.
	Pump set	2000	10	10		
	Mini Rice Mill	4000	35	-		
	Power Sprayer	2000	40	30		
	Solar fencing	3000	05	6		
	Rice reaper	2500	25	24		
	Multi crop planter	3000	20	10		

Capacity Building programmes (HRD) taken up for farmers during the year 2024-25

Theme	Title of the training program	No. of training programmes	Number of beneficiaries		
			Male	Female	Total
Poultry Rearing	Capacity building of farmers & farm women on backyard poultry rearing.	1	06	19	25
Scientific Crop Production	Capacity building of farmers & farm women on	1	14	11	25

Theme	Title of the training program	No. of training programmes	Number of beneficiaries		
			Male	Female	Total
	scientific crop production				
Scientific mushroom cultivation	Capacity building of farmers / farm women on mushroom cultivation	1	21	04	25
Summer vegetable cultivation	Capacity building of farmers & farm women on summer vegetable cultivation	1	18	07	25
Micro irrigation system	Capacity building of farmers & farm women on use of micro irrigation system for fruits and vegetable production	1	20	05	25

Other extension activities being taken up during the year 2024-25

Name of program	Details about the activity	Number of programmes	Participants		Remarks
			Male	Female	
Awareness	Animal health camp	01	78	22	Awarded farmers regarding diseases & their remedies & provided vaccines, medicines, multivitamins etc. for cattle, goats and chicks
Field day	Crop cutting of rice var. Swarna Samriddhi Dhan	01	37	13	crop cutting of swarna samriddhi dhan and discussion of result
SWACHHATA HI SEVA 2024	Cleaning and mass plantation programme	02	18	32	Cleaning and mass plantation programme at NICRA village
Diagnostic field visit	Interact with the farmers & farm women's	105	250	100	Interact with the farmers & farm women's regarding the performance of the crop and the problems faced by the farmers

Summary of Upscaling of technologies through convergence taken up during the year 2024-25 (For the continuing KVKs)

Village name	Name of the technology scaling up/out	No. of farmers reached	Convergence established with center / state (Name of the programme or department)	Approx. amount mobilised (₹)
Arachua	Vermi composting	Arachua	State Forest Dept., Odisha	1,00,000/-

Issuance of agro advisories during the year 2024-25

Whether agro-advisories are being issued: **Yes**

Source of forecast: GKMS-AMFU, Mahisapat, Dhenkanal

Distinguished visitors during the year 2024-25

Name of visitors	Date	Remarks
Sudhansu Kumar Maahanta(BAO)	07.11.2024	Crop cutting of rice var. Swarna Samriddhi Dhan
Geetashree Padhi (DDH)	15.10.2024	Verification of horticulture farm
Mr.Amaya Ranjan Parida (SMS,OFSDP-2)	03.04.2024	Field visit
MR. Dinesh Sharma (FMU, Co-ordinator OFSDP 2)	10.06.2024	Field visit
Mrs. Itishree Pati (FMU, Co-ordinator OFSDP 2)	12.08.2024	Community mobilization
Mr. Pravat Khuntia (TL, PNGO)	12.09.2024	Community and SHG strengthening
Mr. Srinibash Mallick (Director Mahima Alekha)	20.01.2025	Development of farmer interest group and market linkage of farm produce
Bibekananda Maharana (MMSA, OFSDP-2)	21.02.2025	Market linkage

Publications from the project and send the photographs of first page of the publications

Sl.No	Conference/Seminar	Nature of publication	Description/Title of publication
01.	International Conference on “Building small holder climate resilience for achieving sustainable food systems” OUAT, Bhubaneswar	Extended Summery	Climate change adaptation strategies through cultivation of drought tolerant rice variety Swarna Shreya in Dhenkanal district of Odisha
02.	International Conference on Rainfed Agriculture: “Building pathways for resilience and sustainable livelihoods” ISDA,ICAR,CRIDA,	Extended Summery	Building climate resilience in dry land rice farming with drought tolerant Swarna Shreya variety

Sl.No	Conference/Seminar	Nature of publication	Description/Title of publication
	Hyderabad		
03.	National Seminar on “Resource management for climate resilient sustainable food production systems” OUAT, Bhubaneswar	Extended Summery	Mushroom cultivation: A Pathway to Sustainable Agri-food Systems

Significant achievements during the year 2024-25

Description	No. of farmers covered	Impact
Utilization of farm pond water for nursery raising of rice, fish production and irrigation for vegetable production	60	- Provide supplemental water for irrigation to crops, even when rainfall is insufficient - Additional income from fish production
Mushroom cultivation	50	Recycling of farm residue, additional income, solves unemployment problem & high market demand

Awards received

Sl. No.	Award Title	Awarded for	Award received from Organization
01	Best mushroom farmer & BOD member	Best mushroom farmer & BOD member in Dhenkanal sadar block	BALADEVJEW WOMEN FPC ltd.

Farm equipment purchased in TDC -NICRA KVKs (2024-25)

Name of KVKs	Name of Equipment	Quantity	Cost/Unit	Total
KVK, Dhenkanal	Power operated pulse thresher	01	93,600/-	93,600/-
	Power tiller with seat (VST Shakti 165 DI power plus)	01	Power tiller- 2,19,885/-Power tiller seat- 5000/-	2,24,885/-
	Power Weeder	01	55,000/-	55,000/-
	Pulverizer machine	01	48490/-	48,490/-
	Pulverizer machine	01	48,025/-	48,025/-
GRAND TOTAL				4,70,000/-

Rainfall for the year 2024

Date	April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.0	0.0	0.0	17.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	5.0	7.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	29.0	15.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	2.0	1.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	6.0	46.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	24.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Date	April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
7	0.0	7.0	15.0	0.0	14.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
8	31.0	0.0	8.5	11.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	16.0	0.0	14.0	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	6.0	48.5	0.0	0.0	1.0	0.0	0.0	0.0
11	2.3	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.0	1.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	2.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	10.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	7.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	13.0	48.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	14.0	4.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	12.0	16.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	20.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0
21	0.0	0.0	47.0	17.5	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0
22	0.0	0.0	14.0	38.0	3.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
23	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0
24	0.0	0.0	0.0	24.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	3.0
25	0.0	0.0	0.0	13.0	24.0	3.0	9.0	0.0	6.0	0.0	0.0	0.0
26	0.0	0.0	0.0	5.0	1.0	12.0	34.0	0.0	6.0	0.0	0.0	0.0
27	0.0	2.0	0.0	10.0	28.0	44.0	2.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	10.0	7.0	5.0	12.0	13.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	4.0	10.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	10.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	8.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	34.3	28.0	153.5	318.5	278.5	272.0	66.0	0.0	22.5	0.0	11.5	20.0