Central Research Institute for Dryland Agriculture, Hyderabad
Annual Report (NICRA-TDC) – 2020-21

Name of the KVK and village: - Ganjam-I/Chopara,Lepa, Chikili, Nada

1: Natural Resource Management Interventions

***In-situ* moisture conservation measures (Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)**

Interventions	Details of Technology		Critical inputs provided from the project (Machinery, cost for renovation, irrigation systems, seed etc.)	No. of demos	No. of farmers involved in the demonstration	Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha) (Average)				Economics of local practice (Rs./ha) (Average)			
	Crop Name	Name of variety				Now (2020)	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Trench cum bunding																	
BBF																	
Ridges and furrows	**Maize**	**VNR Maize**	**Seed**	**05**	**05**	**08**	**02**	**43.8**	**40.6**	**32000**	**61320**	**29320**	**1.92**	**31000**	**56840**	**25840**	**1.83**
Contour trenching																	
Contour cultivation																	
FIRB method																	
Mulching (organic/plastic)	**Tomato Poly Mulching**	**Arka Rakshyak**	**Seedling,Polythene**	**03**	**03**	**0.5**	**-**	**285**	**243**	**140000**	**285000**	**145000**	**2.04**	**115000**	**243000**	**128000**	**2.11**
Conservation furrow																	

Field bunding																	
Bed and furrows																	
Compartmental bunding																	
Summer deep ploughing																	
Conservation tillage where appropriate like zero tillage/ minimum tillage etc…																	
Land leveling/ Laser land leveling																	
Raising of farm bund ht. to 10 inch	**Rice**	**Beena-11**		**18**	**18**	**22**	**03**	**33.2**	**30.1**	**30000**	**56440**	**26440**	**1.88**	**28000**	**51170**	**23170**	**1.83**

2: *Ex-situ* moisture conservation measures (Water harvesting and efficient use/critical/supplemental irrigation)

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

Interventions	Details of Technology		Critical inputs provided from the project (Machinery, cost for renovation, irrigation systems, seed etc.)	No. of demos	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)				Economics of local practice (Rs./ha) (Average)			
	Crop Name	Name of variety				Now (2020)	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Community ponds																	
Farm ponds	**Brinjal**	**Akshita**	**Seed**	**01**	**01**	**12 nos.**	**09 nos.**	**286**	**242**	**130000**	**286000**	**156000**	**2.2**	**120000**	**242000**	**122000**	**2.02**
Jalkunds																	
Arhars/Pynes																	
Check dams	**Rice**	**Pooja, sarala,Prati kshya**	**Sand, cement**	**01**	**72**	**21**	**03**	43.2	40.2	33000	73440	**40440**	**2.22**	**34000**	**68340**	**34340**	**2.01**
Polybag/Sand bag check dams																	
Open well Renovation	**Chilli**	**Daya**	**Sand,cement**	**03**	**03**	**08**	-	**110.2**	101.4	160000	424800	264800	2.66	154000	405600	251600	2.63

Bore well																	
Percolation tank																	
Improved drainage in flood prone areas (Desilting of drainage channel)																	
Artificial ground water recharge measures																	
Drip irrigation	**Brinjal**	**Akshita**	**04**	**04**		**04**	**-**	**Cont.**									
Sprinkler irrigation																	
Rain gun irrigation																	
Any other (Pl. specify)																	

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

3: Soil health improvement interventions

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

Interventions	Details of Technology		No. of Demos	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)				Economics of local practice (Rs./ha) (Average)			
	Crop Name	Name of variety			Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Soil health cards issued and how they are used	**Rice**	**Pooja, Sarala, Pratikshya**	**46**	**46**												
Tank silt application																
Site specific nutrient management																
Green manuring	**Rice**	**Hasanta**	**16**	**16**	**10**	**02**	**44.2**	**41.1**	**35000**	**75140**	**40140**	**2.15**	**33000**	**69870**	**37870**	**2.11**
Correction of nutrient deficiency																
Gypsum application																

Crop residue incorporation instead of burning																
Vermicomposting	**Brinjal**	**Swarna Shyamali**	**10**	**10**	**08 nos**	**-**	**284**	**258**	**120000**	**284000**	**164000**	**2.37**	**110000**	**258000**	**152000**	**2.34**
Any other specify																

Add rows if necessary

4: Crop Production Interventions

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

Interventions	Details of Technology		No. of Demos	No. of farmers		Area under practice (ha)		Crop yield* (q/ha) (Average)		% increase in yield over local	Economics of demonstration (Rs./ha) (Average)				Economics of local (Rs./ha) (Average)			
	Crop Name	Name of variety		Involved	Area taken up with demo (ha)	After NICRA	Before NICRA	Demo	Local		Gross Cost	R	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Short duration varieties	Rice	**Been a-11**	**40**	**40**	**16**	**34**	**-**	**33.2**	**29.1**	**14.1**	**30000**	**56440**	**26440**	**1.88**	**29000**	**49470**	**20470**	**1.71**
	Greengram	IPM 02-14	**50**	**50**	**20**	**78**	**-**	**5.8**	**4.4**	**31.8**	**15000**	**29000**	**14000**	**1.93**	**12000**	**22000**	**10000**	**1.83**
	Blackgram	**PU-31**	**20**	**20**	**07**	**41**	**06**	**5.2**	**4.1**	**26.8**	**16000**	**31200**	**15200**	**1.95**	**13000**	**24600**	**11600**	**1.89**
Drought tolerant/improved varieties	**Rice**	**Swarna Shreya**	**15**	**15**	**06**	**28**	**-**	**36.2**	**32.6**	**11.1**	**30000**	**61540**	**31540**	**2.05**	**29000**	**55420**	**26420**	**1.91**
Flood tolerant varieties																		
Advancement of planting dates of *rabi* crops in areas with terminal																		

heat stress																		
Water saving paddy cultivation methods (SRI)																		
Water saving paddy cultivation methods (aerobic paddy)																		
Water saving paddy cultivation methods (direct seeding)																		
Frost/ cold wave management in horticultural crops through fumigation																		
Contingency crops																		
Location specific intercropping systems demonstrated	**Maize+Cowpea**	**VNR seed**	**05**	**05**	**01**	**03**	**-**	**40.2 & 26.6**	**44.6**		**40000**	**82880**	**42000**	**2.07**	**32000**	**62440**	**30440**	**1.95**
Conservation tillage where																		

appropriate like zero tillage/ minimum tillage etc…																		
Crop diversification	**Pigeonpea**	**PRG-176**	**15**	**15**	**05**	**16**	**03**	**9.8(Pigeonpea)**	**22(Rice)**		**32000**	**58800**	**26800**	**1.84**	**22000**	**37400**	**15400**	**1.7**
Nutrient spray during drought																		
Low cost poly houses	**Tomato, Brinjal seedling**	**Lakshmi, Akshita**	**04**	**04**		**06**	**02**	**18800 seedlings(mortality-6%)**	**12000(Mortality-40%)**		**6500**	**18800**	**12300**	**2.89**	**4500**	**12000**	**7500**	**2.66**
Low cost tunnels for minimising impact of frost/ cold wave																		
Integrated Farming Systems (mention components and area)	**Dairy,Poultry,fodder, vegetable, Maize, Honey bee**	**Desi cows, Co-4,Hybrid seedling, VNR Maize, Apis ceranaindica**	**05**	**05**	**5.0**	**05**	**01**				**220000**	**560000**	**340000**	**2.55**	**220000**	**460000**	**240000**	**2.09**
High value crop	**Sweet corn**	**Golden**	**10**	**10**	**1.0**	**03**	**01**	**42000cobs (Sweetcorn)**	**42000cobs (Maize)**		**80000**	**210000**	**130000**	**2.62**	**32000**	**63000**	**31000**	**1.97**

		eye																
Wilt tolerant var.	**Brinjal**	**Swarna Shyamali**	**05**	**05**	**0.2**	**04**	**-**	**286**	**231**		**120000**	**286000**	**166000**	**2.38**	**110000**	**231000**	**121000**	**2.1**
BPH tolerant var.	**Rice**	**Hasanta**	**35**	**35**	**14**	**34**	**-**	**44.1**	**40.8**		**34900**	74970	40070	2.15	**32200**	69360	37160	2.15

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

5: Livestock & Fisheries

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

Interventions	**Technology demonstrated**	**Critical input from the project (Variety, Breed, etc.)**	**No. of demos**	**No. of farmers involved**	**Area (ha) / no.**	**Measurable indicators of output* (Average)**		**% increase over local**	**Economics of demonstration (Rs./ha) (Average)**				**Economics of demonstration (Rs./ha) (Average)**			
						Demo	**Local**		**Gross Cost**	**Gross Return**	**Net Return**	**BCR**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**
Introduction of new fodder crops or new varieties	**Hybrid Napier,Co-4**	**Root slips**	**05**	**05**	**0.5**	**3020 lt. milk/yr**	**2710lt. milk/yr**	**11.4**	**48000**	**90600**	**42600**	**1.89**	**45000**	**81300**	**26300**	**1.81**
Improved fodder/feed storage methods (Silage/ hay/ etc.)																
Preventive vaccination	**Animal health camp**	Vaccines in Cattle	04	46	46 nos	1040 lt. milk/yr	920lt. milk/yr	13	17000	31200	14200	1.84	**16000**	**27600**	**11600**	**1.73**
		Vaccine in Goats	04	122	122	Body wt(90days) 7.2 kg	6.0 kg	20	800	2160	1360	2.7	**700**	**1800**	**1100**	**2.57**

Improved shelters for reducing heat stress/ cold stress/ water logging/ flood and diseases in livestock	**Improved cattle shed with concrete flooring, Straw thatched, Mosquito net**	Cement, Sand, Stone, Mosquito net	20	20	20	840	**740**	**13.5**	**11000**	**25200**	**14200**	**2.29**	**10000**	**22400**	**12400**	**2.24**
Introduction of improved breeds (Poultry/ goat/fish	**Poultry breed- Kadaknath**	Chicks	10	10	250 birds	**2.1kg at 06 month**	**1.1 kg at 06 month**	**91**	**110**	**525**	**415**	**4.77**	**60**	**220**	**160**	**3.66**
Management of fish ponds / tanks during water scarcity and excess water	Composite fish culture by stocking of yearlings of Catla, Rohu and Mrigal with floating fish feed		04	04	1.2	36.3	27.2	33.4	194000	435600	244000	2.24	**152000**	**326400**	**174400**	**2.15**
Improved feeding like location specific mineral mixtures or mineral bricks	**Mineral Mixture @ 50gram/day**	Mineral Mixture	10	10	20 nos	1160 lt. milk/yr	940lt. milk/yr	23.4	17000	34800	17800	2.05	**15000**	**28200**	**13200**	**1.88**
Any others like Pig, Duck farming																

*** Output is in terms of litres (milk), number (eggs), kgs (meat), kg/ha (dry fodder yield)**

6: Institutional Interventions

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

Interventions	Details of activity			Critical input from the project (Equipment/ Breed / Variety / planting material, doses)	No. of farmers involved/ benefited	Unit / No. / Area (ha) benefited
	Name of crops /varieties Commodity groups / Implements used by number of farmers	Quantity produced (Q)/ Number / Total rental Charges collected (Rs.)/Area covered (ha)	Technology used in seed / fodder production systems & function of groups			
Seed production systems	Rice-Sahabhagidhan,Beena-11 Swarna shreya	32q	Rogouing, Drying,storage	**Seed**	**94**	**64**
Fodder production systems						
Commodity groups						
Custom hiring centre	Power tiller, sprayer, reaper, diesel pump set, weeder, Thresher cum winnower, MB Plough, seed cum fertilizer drill		Timely agricultural operation at low cost	**Implements on hiring basis**	**76**	**28**
Collective marketing						
Climate literacy through a village level weather station						
Any other (Pl. specify)						

7: Capacity Building taken up (HRD)

Sl. No.	Thematic area	Title of training	No. of programmes	No. of beneficiaries		Date		Feedback from farmers
				Male	Female	from	to	
1	Pest and disease management	IPM in Rice	1	21	04	25.09.2020		
2	Nursery raising	Nursery raising , Grafting techniques of veg. & fruits	1	17	08	01.10.2020		
3	Livestock and Fishery Management	Application of Floating feed in Pisciculture	1	16	09	05.10.2020		
4	Livestock and Fishery Management	Cattle health management	1	19	06	05.02.2021		
5	Employment Generation	Mushroom cultivation	1	-	25	21.02.2021		

8: Extension Activities

Name of the activity	Details about the activity	Number of programs	Time of the program conducted (From--- to ---)	No. of beneficiaries		Remarks
				Male	Female	
Exposure visit of farmers	Interaction, Doubt clearing	1	23.03.2021	22	08	
Exposure visit of students						
Strengthening SHGs						
Strengthening kisan clubs						
Field days	Greengran & Blackgram	2	02.03.2021 & 16.03.2021	69	31	
Method demonstrations	Seed treatment, Herbicide application, yellow sticky trap	03	13.06.2020,12.11.2020,08.01.2021	41	17	
Awareness	Awareness on COVID	02	12.05.2020,18.05.2020	43	22	
Others (if any)						

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

9: Rainfall characteristics for the year 2020-21

Month		June	July	August	September	October	November	December	January	Annual
Rainfall received in (mm)		**248**	**261**	**325**	**138**	**120**	**7**	**0**	**1**	**1508**
No. of dry spells during *kharif* season 2020	>10days				01 to 12					
	>15days									
	>20days									
No. of intensive rain spells (2020)	>60 mm per day		23(69mm) 29(63mm)							
	Waterlogging/Flooding observed (number of days)		No							
Any other extreme events (Heat wave, Cold wave, frost) observed during the season										
Contingency measures adopted during the season	**1)** **2)**									

10: Day-wise rainfall distribution in the village during *kharif* 2020; Rainfall recorded at BDO office, Jagannath Prasad (NICRA village/ KVK??)

		Day														
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Rainfall (mm)	**June**	**0**	**3.2**	**3.3**	**0**	**0**	**0**	**0**	**0**	**4.2**	**22**	**0**	**31**	**0**	**46.2**	**0**
	July	**0**	**0**	**0**	**0**	**0**	**1**	**16**	**0**	**12**	**1**	**0**	**0**	**13.3**	**2.1**	**0**
	August	**0**	**21**	**3**	**0**	**11.3**	**34**	**2**	**12.2**	**3.2**	**0**	**0**	**0**	**56**	**32.2**	**36.2**
	September	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2.2**	**0**	**6**	**5.4**	**8.0**
	October	**36**	**10**	**3**	**13**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**2.2**	**15.1**	**9**
	November	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**0**
	December	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	January	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

		Day															
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Rainfall (mm)	June	38	3.2	0	0	0	1	0	0	13	0	0	0	7	39.2	37	
	July	0	0	53	0	0	0	0	69	1	0	0	0	30.1	63.4	0	0
	August	1	0	0	2	13	7.3	2	0	3	0	21	38.2	0	0	0	27
	September	6.0	16.2	0	11.2	0	55	3	0	0	0	2	2	0	0	19.4	
	October	28.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0

11: Impact of contingency measures taken up in the village (Relate the dry spells/floods/heat wave/cold wave/etc., with crops and their growth stages)

(Please provide your inputs about the performance of the interventions with reference to the rainfall, climatic vulnerability (drought, flood/ cold wave/heat wave, etc.) crop growth, soils, etc. at the end of table)

S. No	Dry spell/ heat wave/cold wave/frost (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	Dry spell	Sept.01 to Sept. 12, 2020	Rice	Tillering	Drought tolerant var.- Swarna Shreya				
2	Dry Spell	Sept.01 to Sept. 12	Pigeonpea	Vegetative	Medium duration drought tolerant var.-PRG-176				
3	Dry spell	Sept.01 to Sept. 12	Rice/Hasanta	Tillering	Green manuring & critical irrigation from Checkdam & farm pond				
4	Dry Spell	Sept.01 to Sept. 12	Rice/beena-11	Tillering	Raising of farm bund ht.				

*** List the interventions taken up for each crop**

12: Adoption of successful interventions in the NICRA village & the adjoining villages

Successful interventions	Crop	Variety	Extent of adoption in the village in ha (2020)
NRM			
Raising of farm bund ht. to 10 inch	**Rice**	**Beena-11**	**24**
Green Manuring	**Rice**	**Hasanta**	**28**
CROP			
Drought tolerant short duration Rice var. Sahabhagidhan	**Rice**	**Sahabhagidhan**	**43**
Drought tolerant medium duration Rice var. Swarna Shreya	**Rice**	**Swarna Shreya**	**24**
Livestock			
Yearling stocking in rainfed farm ponds	**Pisciculture**	**Composite Pisciculture**	**13**

13: Details about agro advisories issued (Organization giving the forecast: RRTTS, Kandhamal, forecast is based on the district, forecast is based on the district:DAMU,IMD,KVK , Ganjam-1 Organization is giving the agromet advisory for block level); How the advisories are disseminated in the NICRA village -by Whats app

Agromet advisory Bulletins issued

(Please provide your inputs about the performance of the advisory with reference to the rainfall forecasted at the end of table)

Month	June	July	August	September	October	November	December	January
Number of agromet bulletins issued	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**
Other advisories issued	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**

14: Popularization of Climate Resilient Varieties

Crop*	Climate Resilient Varieties incorporated in the *Kharif* 2020 plan of the State Department	Approx. area brought under the variety by the state department during the K*harif* 2020 (ha)	Climate Resilient Varieties incorporated in the *Rabi* 2020 plan of the State Department	Approx. area brought under the variety by the state department during the *Rabi* 2020 (ha)
Rice	**Sahabhagidhan**	1800	**Variety 1**	
	Beena-11	800	**Variety 2**	
	Swarna sub-1	200		
Greengram			**IPM 02-14**	**2200**
Pigeonpea	**PRG-176**	**300**	**Variety 2**	
Crop3	**Variety 1**		**Variety 1**	
	Variety 2		**Variety 2**	
Crop4	**Variety 1**		**Variety 1**	
	Variety 2		**Variety 2**	
Crop4	**Variety 1**		**Variety 1**	
	Variety 2		**Variety 2**	

15: Awards Received during the year for the work related to NICRA

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

16: Distinguished visitors to the NICRA village during the year

Name of the person	When the visit occurred	Significant comments/ suggestions

17: Amount (Rs.) mobilized through convergence from various departments

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

1	Goat improvement	20		AICRP on Goat, OUAT	60,000
2	Demonstration	40		Woman empowerment by CIWA, Bhubaneswar	70,000

18: Publications and other products/Video films etc., developed during the year: 13 minutes short Video films about NICRA interventions since inceptions.

19: Lessons learnt from the project

Significant observations	**Performance of interventions**	**Adoption of interventions**	**Livelihood improvement**
Short duration var. of Rice are first attacked by wild boar	**Performance of greengram var. IPM-02-03 is better in late sowing (January) than December**	**Use of fodder can alleviate the feed stress during adverse climatic conditions.**	**mproved poultry breeds (Kadaknath) can thrive well in adverse climatic conditions with better production performances.**

20: Equipment procured under custom hiring center since the inception of the programme

S.No.	**Equipment purchased**	**Number of units purchased**	**Year of purchase**	**Whether the equipment is in working condition or not**
1.	M.B. plough	01	2011-12	**Working**
2.	Power sprayer	03	2011-12,2019-20	**Working**
3.	Diesel Pump set	03	2011-12,2020-21	**Working**
4.	Power	02	2011-12	**Damaged not working**

	weeder			
5.	Sprinkler	02 sets	2011-12	**Working**
6.	Power tiller	02	2011-12, 2016-17	**Damaged not working(01)**
7.	**Seed cum fertilizer drill**	01	2011-12	**Not Working**
8.	**Multi crop thresher**	01	2011-12	**Damaged not working**
9.	**Reaper**	01	2016-17	
10	**Thresher cum winnower**	4	2016-17(3),2018-19	**Working**

21: Success stories of the farmers

Success story-1	
Technology demonstrated:	**Integrated farming system with Live stock**
Problem identified:	**Dry spell decrease the yield & low income due to single enterprises**
Description of technology:	**Integration of Dairy, Poultry, Fodder along with Crops(Rice, Greengram, Brinjal,Sweet corn, Cauliflower).**
	Dairy -02 Crossbred cows, Poultry- Kadaknath 20 nos..
	Rice- 0.6ha, Brinjal -0.4 ha., Fodder- 0.2 ha.-Sweet corn-0.2ha., (Kharif)
	Greengram-0.6 ha., Cauliflower-0.4 ha., Tomato-0.2 ha.(.(Rabi),
Impact of intervention:	**Rice var. Swarna Shreya has 16% higher yield as compared to local var., Sweet corn gave higher profit than Maize.. Brinjal var.- Swarna Shyamali decreased the mortality rate of seedlings by 76%.**
	.
How the interventions minimized the impact of climate variability	**Rice Var. – Swarna Shreya tolerate dry spell for 10 days, Integration of dairy, Poultry, Sweetcorn increased income. Fodder crop provides feeds round the year. Greengram var. IPM 02-03 has no YMV incidence**
Yield and Economics:	**Earlier he was getting profit of Rs.1,06,000/- per year & after IFS integration he got a profit of Rs.1,65,000/- per year**

Name of farmer	**Bhaskar Pradhabn**
Age	
Mobile	
Address	
Land holdings (Rainfed & Irrigated)	**1.4 ha./0.8 rainfed**
Livestock	**Dairy, Poultry**

Success story-2	
Technology demonstrated:	**Integrated farming system with Live stock**
Problem identified:	**Dry spell decrease the yield & low income due to single enterprises**
Description of technology:	**Integration of Honey bee, Dairy, Poultry, Fodder along with Crops(Rice, Ragi,Greengram, Brinjal,Mango orchard).**
	Honey -10 box, Dairy -02 Crossbred cows, Poultry-Kadaknath 30 nos..
	Rice- 0.6ha, Ragi-0.2 ha., Fodder- 0.2 ha.-Mango-0.2 ha., (Kharif)
	Greengram-0.4 ha., Brinjal-0.4 ha.(.(Rabi)
Impact of intervention:	**Rice var. Swarna Shreya has 14% higher yield as compared to local var., Ragi var. has higher yield than upland Rice var., Fruit fly management in Mango increased the yiel by 12 %. Brinjal var.- Swarna Shyamali decreased the mortality rate of seedlings by 72%.**
How the interventions minimized the impact of climate variability	**Rice Var. – Swarna Shreya tolerate dry spell for 10 days, Ragi is a Climate Resilient crop, Integration of dairy, Poultry, Honey bee increased income. Fodder crop provides feeds round the year. Greengram var. IPM 02-03 has no YMV incidence.**
Yield and Economics:	**Earlier he was getting profit of Rs.1,03,000/- per year & after IFS integration he got a profit of Rs.1,34,000/- per year**

Name of farmer	**Mahendra Kumar Nayak**
Age	**46**
Mobile	**9777282482**
Address	**Lepa, JN Prasad**
Land holdings (Rainfed & Irrigated)	**1.2 ha- (0.8 ha. rainfed)**
Livestock	**Honey bee, Dairy, Poultry**

21: Prepare farmer wise table for each of the demonstration

Farmer name	Technology demonstrated		Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha)				Economics of local practice (Rs./ha)			
	Crop Name	Name of variety	Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Intervention-1	**Rice**	**Swarna Shreya**	**28**	**-**										
Dandapani Pradhan	**Rice**	**Swarna Shreya**			**35.3**	**32.7**	**30400**	60010	29610	1.97	**29100**	55590	25980	1.88
Bansidhar Pradhan	**Rice**	**Swarna Shreya**			**34.7**	**32.8**	**30600**	58990	28390	1.93	**29000**	55760	27370	1.96
Mahendra Kumar Nayak	**Rice**	**Swarna Shreya**			**36.4**	**32.6**	**30300**	61880	31580	2.04	**28800**	55420	23840	1.75
Pradeep Kumar Pradhan	**Rice**	**Swarna Shreya**			**36.1**	**32.5**	**30000**	61370	31370	2.05	**28900**	55250	23880	1.76
Bainath Pradhan	**Rice**	**Swarna Shreya**			**36.3**	**32.4**	**29800**	61710	31910	2.07	**29000**	55080	23170	1.73

Farmer name	Technology demonstrated		Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha)				Economics of local practice (Rs./ha)			
	Crop Name	Name of variety	Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Intervention-2	**Rice**	**Beena-11**	**34**	**-**										

Simanchal Pradhan	**Rice**	**Beena-11**			**33**	**29.4**	**28900**	**57120**	**26920**	**1.89**	**29100**	49980	20880	1.72
Khadal Nayak	**Rice**	**Beena-11**			**33.6**	**29.2**	**30200**	**57290**	**26890**	**1.88**	**28900**	49640	20740	1.72
Krushna Chandra Gouda	**Rice**	**Beena-11**			**33.7**	**29**	**30400**	**56270**	**26270**	**1.88**	**29200**	49300	20100	1.69
Narayana Naik	**Rice**	**Beena-11**			**33.1**	**28.8**	**30000**	**55590**	**26790**	**1.93**	**29000**	48960	19960	1.69
Jayasen Pradhan	**Rice**	**Beena-11**			**32.7**	**29.2**	**28800**	**57120**	**26920**	**1.89**	**28800**	49640	20840	1.72

Farmer name	**Technology demonstrated**		**Area under practice in the village (ha)**		**Crop yields (q/ha) (Average)**		**Economics of demonstration (Rs./ha)**				**Economics of local practice (Rs./ha)**			
	Crop Name	**Name of variety**	**Now**	**Before initiation of NICRA project**	**Demo**	**Local**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**	**Gross Cost**	**Gross Return**	**Net Return**	**BCR**
Intervention-3	**Pigeonpea**	**PRG-176**	**16**	**03**	**Pigeonpea**	**Rice**								
Susanta Pradhan	**Pigeonpea**	**PRG-176**			**9.9**	**22.2**	**32200**	59400	27200	**1.84**	**22300**	37740	15440	1.69
Ugrasen Pradhan	**Pigeonpea**	**PRG-176**			**9.7**	**22**	**32100**	58200	26100	**1.81**	**22100**	37400	15300	1.69
Jogindra Sahu	**Pigeonpea**	**PRG-176**			**9.8**	**22.3**	**31800**	58800	27000	**1.85**	**22200**	37910	15710	1.71
Jayasen Pradhan	**Pigeonpea**	**PRG-176**			**9.6**	**21.9**	**32000**	57600	25600	**1.80**	**22000**	37230	15230	1.69
Upendra Nayak	**Pigeonpea**	**PRG-176**			**9.7**	**21.8**	**32200**	58200	26000	**1.81**	**21800**	37060	15260	1.70

Farmer name	Technology demonstrated		Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha)				Economics of local practice (Rs./ha)			
	Crop Name	Name of variety	Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Intervention-4	**Greengram**	**IPM - 02-14**	**78**	**-**										
Dhoba Sahu	**Greengram**	**IPM - 02-14**			**5.6**	**4.3**	**15200**	28000	12800	1.84	**12200**	21500	9300	1.76
Pitambar Pradhan	**Greengram**	**IPM - 02-14**			**5.9**	**4.2**	**15300**	29500	14200	1.93	**12100**	21000	8900	1.74
Jalandhra Alatia	**Greengram**	**IPM - 02-14**			**5.8**	**4.4**	**14800**	29000	14200	1.96	**11900**	22000	10100	1.85
Dandapani Pradhan	**Greengram**	**IPM - 02-14**			**6**	**4.7**	**15000**	30000	15000	2.00	**12000**	23500	11500	1.96
Sishula Gouda	**Greengram**	**IPM - 02-14**			**5.6**	**4.6**	**15100**	28000	12900	1.85	**11800**	23000	11200	1.95

Please provide information in the same format for all the demonstrations taken up during the year 2020. This includes technologies demonstrated in NRM, crops, livestock fisheries.

Farmer name	Technology demonstrated		Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha)				Economics of local practice (Rs./ha)			
	Crop Name	Name of variety	Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Intervention-5	**Blackgram**	**PU-31**	**41**	**06**										
Sunita Gouda	**Blackgram**	**PU-31**			**5.4**	**4.2**	**16300**	32400	16100	1.99	**13200**	25200	12000	1.91
Binodini Pradhan	**Blackgram**	**PU-31**			**5.3**	**4**	**15800**	31800	16000	2.01	**13300**	24000	10700	1.80
Pitabas Pradhan	**Blackgram**	**PU-31**			**5.5**	**4.4**	**15900**	33000	17100	2.08	**12800**	26400	13600	2.06
Sahadev Gouda	**Blackgram**	**PU-31**			**5.1**	**3.9**	**16100**	30600	14500	1.90	**12900**	23400	10500	1.81
Dibakar Pradhan	**Blackgram**	**PU-31**			**5**	**3.8**	**16200**	30000	13800	1.85	**13000**	22800	9800	1.75

Farmer name	Technology demonstrated		Area under practice in the village (ha)		Crop yields (q/ha) (Average)		Economics of demonstration (Rs./ha)				Economics of local practice (Rs./ha)			
	Crop Name	Name of variety	Now	Before initiation of NICRA project	Demo	Local	Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Intervention-6	**Rice**	**Hasanta**	**34**	**-**										
Ugrasen Pradhan	**Rice**	**Hasanta**			**44.6**	**41.1**	**35200**	75820	40620	2.15	**32900**	69870	36970	2.12
Rabindra Gouda	**Rice**	**Hasanta**			**44.1**	**40.8**	**34900**	74970	40070	2.15	**32200**	69360	37160	2.15
Prakash Nayak	**Rice**	**Hasanta**			**44**	**41.4**	**35100**	74800	39700	2.13	**32400**	70380	37980	2.17
Babuli Sahu	**Rice**	**Hasanta**			**43.2**	**41.2**	**34800**	73440	38640	2.11	**32100**	70040	37940	2.18
Kuni Pradhan	**Rice**	**Hasanta**			**43.6**	**40.7**	**35000**	74120	39120	2.12	**32200**	69190	36990	2.15

Sd/-
Senior Scientist & Head
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