

Module 2: Crop Production Interventions

Interventions	Technology demonstrated along with crop and variety*	Critical input (Variety, Fertilizer/ Machinery, etc)	No. of farmers benefited	Area taken up (ha)	Measurable indicators Crop yield		% increase in yield over local	Economics of demonstration (Rs./ha) (Average)				Economics of Local (Rs./ha) (Average)			
					Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Short duration varieties demonstrated	Crop-paddy, variety-Sabour ardhjal	Seed and seed treatment	82	20.5	43.36	41.25	5.11	26890	65040	38150	2.41	27730	61875	34145	2.23
Drought tolerant varieties demonstrated	Crop-paddy, variety-sahbhagi	Seed and seed treatment	8	2.25	44.22	41.50	6.55	28125	66330	38205	2.35	27730	62250	34520	2.24
Introducing flood tolerant varieties	Crop-I, Variety-I														
Advancement of planting dates of <i>rabi</i> crops in areas with terminal heat stress	Crop-wheat, variety-HD-2967	Seed and seed treatment	26	6.5	28.45	21.15	34.51	26540	51210	24670	1.92	27935	38070	10135	1.36
Water saving paddy cultivation methods (SRI, aerobic, direct seeding)															
Frost management in horticultural crops through fumigation															
Community nurseries for delayed monsoon															
Custom hiring centres for timely planting															
Location specific intercropping systems with high sustainable yield index															
Crop diversification															
Weed management in paddy	Crop-Paddy, variety- R. Sweta,	Weedicide (bispyriback sodium)	10	4.0	50.75	47.43	6.99	27430	96425	68995	3.51	29840	90117	60277	3.02
Sowing of moong for increasing crop intensity	Crop-Moong, variety-IPM 2-03	Seed and seed treatment	35	12	12.35	7.53	64.01	17500	64220	46720	3.66	15800	39156	23356	2.47
Introducing of improved variety of lentil	Crop-Lentil, variety-HUL-57	Seed and seed treatment	44	11	12.65	7.50	68.6	15850	63250	47400	3.99	16150	37500	21350	2.32
Introducing of improved variety of chick pea	Crop-Chick Pea, variety-PG-186	Seed and seed treatment	41	10.25	13.75	9.25	48.6	22930	57750	34820	2.51	23325	38850	15525	1.66

*Make a separate row for each crop and variety demonstrated

Module-3: Livestock & Fisheries

Interventions	Technology demonstrated	Critical input (Variety, Breed, etc)	No. of farmers	Unit/ No. / Area (ha)	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
Use of community lands for fodder production during droughts / floods															
Introduction of new fodder crops or new varieties															
Improved fodder/feed storage methods															
Preventive vaccination															
Improved shelters for reducing heat stress/ cold stress/ water logging/ flood and diseases in livestock															
Introduction of improved breeds	Introducing of improved breed of goat	Black Bengal and jamunapari	14	15	30 kg meat/y ear	16 kg meat/year	87.5	6000	12000	6000	2.0	4000	6400	2400	1.6
Management of fish ponds / tanks during water scarcity and excess water															
Improved feeding like location specific mineral mixtures or mineral bricks	Mineral mixture	Mineral mixture	155	190	5 lit/day	4 lit/day									
Improved feeding like location specific calcium	Calcium	Calcium	200	212	4.5 lit/day	4 lit/day									

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

Module-4: Institutional Interventions

Interventions	Details of activity			Critical input (Breed / Variety / Medicine doses)	No. of farmers involved	Unit / No. / Area (ha)
	Name of crops /varieties Commodity groups / Implements	Quantity produced/ Number / Rent / Charges	Technology used in seed / fodder bank & function of groups			
Seed bank						
Fodder bank						
Commodity groups						
Custom hiring centre	Wheat, paddy, lentil, chickpea	-	Use of farm Implement for minimized the cost of cultivation	Implement	31	72
Collective marketing						
Climate literacy through a village level weather station	Weather station	1	Data interspersed of the AWS and then forecasting/advisory	Cost of SMS/Voice SMS/Internet	68	68
Any other (Pl. specify)						

Module-5: Capacity Building taken up (HRD)

Sl. No.	Thematic area	Title of training	No. of Courses	No. of beneficiaries		Date	
				Male	Female	from	To
1	Crop Production	Scientific cultivation of Moong	1	19	5	07/04/2018	07/04/2018
2	Nursery management	Nursery management in paddy	1	24	13	07/06/2018	07/06/2018
3	Crop Production	Scientific cultivation of paddy	1	45	7	14/06/2018	14/06/2018
4	Crop Production	Scientific cultivation of paddy	1	15	3	15/06/2018	15/06/2018
5	Weed management	Weed management in paddy	1	25	15	17/08/2018	17/08/2018
6	Crop Production	Scientific cultivation of chick pea and lentil	1	12	6	10/11/2018	10/11/2018
7	Crop Production	Scientific cultivation of chick pea and lentil	1	35	10	12/11/2018	12/11/2018
8	Crop Production	Scientific cultivation of wheat	1	33	9	13/11/2018	13/11/2018
9	Crop Production	Scientific cultivation of wheat	1	16	3	17/11/2018	17/11/2018
10	Water management	Water management in wheat	1	30	0	26/02/2019	26/02/2019
11	IDM	disease management in wheat crop	1	30	0	2/03/2019	2/03/2019

Module-6: Extension Activities

Name of the activity	Details about the activity	Number of programmes	Time of the programme conducted (From ---- to----)	No. of beneficiaries		Remarks
				Male	Female	
Exposure visit of farmers	Kisan mela	1	From 23 to 25 Feb. 2019	50	0	
Strengthening SHGs						
Strengthening kisan clubs						
Integrated farming system						
Field days	Draught tolerant variety of wheat	1	27/3/2019	86	15	
Method demonstrations						
Awareness	Swachta programme	1	28/11/20118	52	12	
Others (if any)						

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

7. Rainfall characteristics for the year 2018-19

Kharif 2018		JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	ANNUAL
Rainfall received in (mm)		61.7	163.6.20	397.10	147.2	4.4	873.00
No. of dry spells during kharif season 2018	>10days	1	1			1	
	>15days					1	
	>20days						
No. of intensive rain spells (2018)	>60 mm per day		1				
	Water logging observed(days)						
Any other extreme events observed during the season							

8. Impact of contingency measures taken up in the village (Relate the dry spells with crops and their growth stages)

S. No	Dry spell (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	1(11days)	12 – 22 june	paddy	Nursery preparation affected	Life saving irrigation in seedling of long and medium variety of paddy	21	45.22	52.35	15.76%
2	11 (10days)	7 – 16 july	Paddy		Short duration of paddy and direct sowing of paddy	46	35.78	38.43	7.40%
3	1 (10days) 1 (18days)	1 – 10 Oct. 13 – 31 Oct.	paddy	Grain filling	Life saving irrigation	78	31.38	34.00	6.91%

* List the interventions taken up for each crop

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

Successful interventions including crops and varieties	Extent of adoption in the village in %.											
	2013		2014		2015		2016		2017		2018	
Seed Treatment	71%	11%	82%	18%	88%	25%	90%	36%	92%	48%	92%	55%
Chemical Weed Management	42%	20%	64%	25%	64%	30%	66%	36%	66%	40%	66%	42%
Sprinkler	78%	2%	82%	5%	85%	12%	86%	20%	86%	25%	86%	25%
Zero tillage in Wheat	35%	12%	47%	12%	48%	15%	50%	15%	52%	17%	52%	20%
Zero tillage in Lentil	7%	2%	13%	5%	15%	8%	18%	8%	18%	10%	120%	10%
Direct Seeded Rice	5%	0%	8%	2%	8%	2%	8%	5%	10%	5%	10%	8%
Integrated nutrient management/Balance use of fertilizer	52%	30%	59%	40%	62%	55%	70%	60%	75%	60%	80%	65%
Summer crop	25%	6%	31%	10%	35%	18%	38%	20%	40%	25%	45%	25%
Vaccination	59%	10%	76%	16%	76%	22%	80%	25%	80%	30%	85%	40%
Mineral mixture	47%	5%	65%	10%	65%	12%	70%	15%	70%	25%	75%	25%
Short duration paddy variety	7%	0%	10%	2%	16%	5%	20%	8%	25%	12%	38%	15%
Drought tolerance paddy variety	5%	0%	8%	5%	8%	10%	10%	12%	15%	15%	20%	15%
Heat tolerance Wheat variety	4%	0%	7%	5%	10%	5%	15%	8%	25%	12%	30%	15%

10. Popularization of Climate Resilient Varieties

Crop*	Climate Resilient Varieties incorporated in the <i>Kharif 2018</i> plan of the State Department	Approx. area brought under the variety by the state department during the <i>Kharif 2018</i> (ha)
Paddy	sahbhagi	17000
	Rajendra Sweta	52000
Crop*	Climate Resilient Varieties incorporated in the <i>Rabi2018</i> plan of the State Department	Approx. area brought under the variety by the state department during the <i>Kharif 2018</i> (ha)
Wheat	PBW-343	5000
	HD-2967	25000
lentil	HUL-57	5000
Chick pea	PG-186	5200

11. Awards Received during the year for the work related to NICRA

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

12. Distinguished visitors to the NICRA village during the year

Name of the person	When the visit occurred	Significant comments/ suggestions
District Agriculture officer, Aurangabad	22.07.2018	Increase the area of drought tolerant variety
ADH, Aurangabad	12.08 2018	Planted of orchard in upland area
PD, ATMA, Aurangabad	5.10 2018	Exposure visit of farmers to another state

13. Amount (Rs.) mobilized through convergence from various departments

S. No.	Activity/ Intervention	Coverage [No. of farmers/Area (ha)]	Convergence established with (Name of the programme or department)	Approx. amount (Rs.) mobilized
1	Sprinkler irrigation system	52	National micro irrigation system project	10.052
2	Chilling plant	80	Adrash Dairy gram yojna	14.820
3	Construction of road (4 km)	All villagers	Pradhan mantri gram sadak yojna	176.00
4	PACS Godown	500	IAP yojna	17.690
5	PACS Godown	500	Rastriya Krishi vikash yojna	11.450
6	Threshing floor	35	Rastriya Krishi vikash yojna	0.780
7	Veterinary Hospital	400	Animal Husbandry Department (Under construction)	40.00
8	Rice mil	600	Rastriya Krishi vikash yojna (Under process)	34.400
Total				305.192

14. Publications and other products developed during the year

Sl.no	Author	Title
2	Dr. Nityanand & Dr. Sunita Kumari	Techniques of Mushroom production
3	Dr. Nityanand & Er. Rajeev Singh	Scientific cultivation of chick pea
4	Dr. Nityanand & Praveen Kumar	Vermin compost production technique

15. Significant observations about the project/ the performance of interventions/ adoption of interventions/ livelihood improvement etc..

Water harvesting and recycling for supplemental irrigation through Arha:

There was no facility of irrigation in NICRA village. Irrigation through water reservoir (Arha) is also present from long time, But it is fully damage and siltation caused mixed up with farmers field just look like plate. It can't contain enough water. Farmers were not irrigating rabi crop in time. In month of April to June many hand pumps, wells and bore well were dried due depletion of water table. Animals and few people are migrated due to insufficient drinking water. After the starting of this project 9 ponds, 4 wells and 2.2 km irrigated reservoir (Arha) were renovated. At present time reservoir (Arha) is useful in following aspect:-

1. Ground water is fully recharged and water level increase up to 2.0-3.0' during month of May & June. So water level is also maintained. No any claim or problem of drinking water as well as irrigation of crops.
2. Farmers are also happy because they apply 3 to 4 irrigation in wheat and 1 sprinkler irrigation apply in pulses. That causes increase the cultivated area and yield.
3. Before renovation of arha they can't cultivate moong but in this summer season they also cultivated moong in the month of April.
4. Arha water is used by animal, cultivation of fishes and other activities.
5. In Kharif-2015 farmers raised his paddy nursery in time. Before renovation of reservoir they raised his nursery in neighbour village.