

recharge measures													
Water saving irrigation methods (Drip/sprinkler/raingun etc...)													
Crop residue incorporation instead of burning													
Low cost vermicompost	Low cost raised base vermi-composting unit	Bamboo, Plastic, Mother culture	10	10	-	-	-	Ongoing					

Module 2: Crop Production Interventions

Interventions	Technology demonstrate	Critical input (Variety, Fertilizer / Chemicals doses,)	No. of farmer	Area (ha)	Measurable indicators of yield* (q/h)		% increase	Economics of demonstration (Rs./ha)				Economics of Local (Rs./ha)			
					Demo	Local		Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Introducing flood tolerant varieties	Scaling up of submergence tolerant varieties of rice 'Ranjit sub 1' in rice toria cropping system of	Seed, Urea, SSP, MOP & Plant Protection Chemicals	46	10	42.3	38.2 (Ranjit)	10.73	30350.00	48645.00	18295.00	1.60	28500/-	43930/-	15430/-	1.54

Crop diversification	Introduction of high yielding variety of Toria 'TS-46'	Seed, Urea, SSP, MOP, Borax & Plant Protection Chemical	32	5.0	8.65	6.78	27.58	20900.00	34600.00	13700.00	1.66	19230.00	26960.00	7730.00	1.40
	Introduction of high yielding variety of Toria 'TS-38' to compensate losses during kharif crop	Seed, Urea, SSP, MOP, Borax Plant Protection & Chemical	32	5.0	8.52	6.70	27.16	20900.00	34080.00	13180.00	1.63	19230.00	26800.00	7570.00	1.39
	Upscaling of high yielding of late sown variety of Toria 'TS-67' to sustain livelihood in flood affected areas.	Seed, Urea, SSP, MOP, Borax Plant Protection & Chemical	32	5.0	8.60	6.12	40.52	21800.00	34400.00	12600.00	1.57	20230.00	24480.00	4250.00	1.21

	Cultivation of Black gram in flood affected areas in post flood situation	Seed, Urea, SSP, MOP & Plant Protection Chemicals	15	2.0	Crop failed due to prolonged rainy period										
Control of stem borer															
Income generation crop															
Introducing temperature tolerant varieties															
Staggered planting rice variety during kharif season under aberrant weather condition	Up scaling of delayed planting rice variety 'Gitesh' under aberrant weather condition	Seed, Fertilizer & Plant Protection Chemicals	26	5	38.9	28.2	37.94	30500.00	44735.00	14235.00	1.47	28800/-	32430/-	3630/-	1.13
Demonstration on HYV of summer rice	Summer rice variety Bina dhan 11 to escape flood	Seed, Fertilizer & Plant Protection Chemicals	36	5.0	-	-	-	Ongoing							

Integrated duck cum fish farming	Demonstration on Integrated duck cum fish farming	Cost of duck shed, fingerlings, ducklings, feed etc.	2	2/ 0.5 ha	-	-	-	Ongoing
Others (Pl. specify) Low cost shelter for poultry	Low cost improved <i>Mechang</i> type poultry house for flood affected area	Cost of Bamboo, roof etc	5	5	-	-	-	Ongoing
Low cost shelter for goat	Low cost improved <i>Mechang</i> type Goat house for flood affected areas	Cost of Bamboo, roof etc	4	4	-	-	-	Ongoing

* 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	Paddy variety Ranjit Sub1	86.0	Seed production	Seed, Urea, SSP, MOP and PP Chemicals	8	2.0
	Paddy variety	73.4	Seed production	Seed, Urea, SSP,	13	2.0

	Naveen			MOP and PP Chemicals		
	Paddy variety Gitesh	77.2	Seed production	Seed, Urea, SSP, MOP and PP Chemicals	15	2.0
	Toria variety TS-38	17.3	Seed production	Seed, Urea, SSP, MOP and PP Chemicals	5	2.0
	Toria variety TS-67	16.8	Seed production	Seed, Urea, SSP, MOP and PP Chemicals	8	2.0
Fodder bank						
Community Nursery	Establishment of community nursery in flood affected area with short duration rice variety	Transplanted area 5.0 ha	Seedling production and distribution as contingency measure	Seed, land preparation cost	9	0.60
Commodity groups	-	-	-	-	-	-
Custom hiring centre	Power tiller, sprayer, pump set, reaper, plant protection kit, hoe, sickle, rack, wheel hoe, SRI marker, weighing balance, power sprayer, drum, bucket, rope, measuring cylinder, Manual Duster etc.	-	Utilize the agricultural machineries and implements for cultivation of crops on hiring basis	-	63	1
Collective marketing	-	-	-	-	-	-
Climate literacy through a						

village level weather station						
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 diversification	Crop diversification through oilseed crop for sustainable livelihood	1	16	32	16.03.20	-
2	INM	Soil health card based INM in summer rice to increase crop productivity in changing climatic condition	1	33	11	18.03.20	-

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	Exposure visit of School Student to NICRA village	1	20 th November, 2018	20	24	Students were exposed to basic agriculture
Kisan Mela	Celebration of Kisan Mela on the occasion of World Soil Day	1	5 th December, 2019	170	130	Farmer were acquainted with new agril.

						technologies
Strengthening SHGs		-				
Strengthening kisan clubs		-				
Integrated farming system						
Field day	Field Day on Staggered planting rice variety Gitesh	1	20 th November, 2018	21	30	Farmer were convince with the result of the technology
	Field Day on Submergence tolerant rice variety Ranjit Sub1	1	20 th November, 2018	21	30	-do-
Method demonstrations	Root dip treatment in paddy	2	2 nd July, 2019 & 8 th July, 2019	52	-	Conducted for skill development of farmers
Awareness						
Others (if any)						
Mahila Kisan Divas						

7. Rainfall characteristics for the year 2019-20

Kharif 2019		JUNE	JULY	AUG UST	SEPTE MBER	OCTO BER	NOVE MBER	DECE MBER	JANUA RY	FEBRU ARY	MARC H	APRIL	ANNUA L
Rainfall received in (mm)		297.8	354.1	68.9	340.3	130.2	0.6	0	0	2.3	29.6	-	1721.2
No. of dry spells during kharif season 2018	>10 days	-	-	-	-		02	03	03	02	-	-	10
	>15 days	-	-	-	-	-	-	02	02	01	-	-	05
	>20 days	-	-	-	-	-	01	01	01	-	-	-	03
No. of intensive rain spells (2018)	>60 mm per day	02	02	-	02	-	-	-	-	-	-	-	06
Water logging observed (days)		-	-	-	-	-	-	-	-	-	-	-	-

8. Impact of contingency measures (Relate the dry spells with crop and their growth stages):

S. No	Dry spell (no. of days)	Duration (from--- to--)	Crop name*	Crop stage	Intervention taken up	Number of farmers involved	Impact on crop yields (q/ha)	
							Farmers' practice	Demo
1	30 days	1 st Dec – 31 st Dec	Toria	Active vegetative stage	One light irrigation	52	-	-
4	31 days	1 st Jan – 31 st Jan	Toria	Silique formation stage	One light irrigation	41	7.1	6.7

			Summer rice	Seedling transplanted at main field	Irrigation	60	-	-
5	16 days	7 th Feb – 22 nd Feb	Summer rice	Tillering stage	Irrigation	51	-	-

* 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 ha.															
	2012		2013		2014		2015		2016		2017		2018		2019	
Demonstration on Submergence tolerance paddy variety 'Swarna Sub1'	-	-	2	-	4	-	5	-	6	-	1630 (Dept of Agriculture Scheme) 857.5 (Seed Village Scheme) 100 (Assam Seed Certification Scheme)	-	15	-	19	5
Demonstration on staggered planting paddy variety 'Gitesh'	0.27	-	2	-	4	-	4	-	6	-	8	-	8	-	16	8
Demonstration on semi deep water Rice Variety "Dipholu"	-	-	-	-	-	-	-	-	0.4	-	5	-	8	-	11	3
Demonstration on	8	-	10	-	12	-	21.21	-	22	-	25	-	28	-	35	18

<i>Boro</i> paddy variety 'Joymati'																	
Crop Diversification with Toria variety "TS-36"	-	-	5	-	5	-	8	-	21	-	25	-	20	9	36	29	
Crop Diversification with Toria variety "TS-46"	-	-	-	-	-	-	-	-	5	-	5	50** (CFLD programme)	8	60**	14	12	
Crop Diversification with late sown Toria variety "TS-67"	-	-	-	-	-	-	-	-	5	-	9	-	12	7	27	9	

* Deptt of Agriculture, Assam has taken up demonstration on Submergence tolerance rice variety 'Swarna sub1'

** CFLD programme was taken up by KVK, Dhubri

10. Popularization of Climate Resilient Varieties

Crop*	Climate Resilient Varieties incorporated in the Kharif 2018 plan of the State Department	Approx. area brought under the variety by the state department during the Kharif 2018 (ha)
Rice	Submergence tolerance rice variety 'Swarna sub1'	152
	Submergence tolerance rice variety 'Bahadur Sub 1'	60
	Submergence tolerance rice variety 'Ranjit Sub 1'	95
	Staggered planting rice variety ' Gitesh'	23
	Summer rice variety Joymati	75
Toria	Timely sown Toria Variety "TS-36" in Rice (short	25

	duration) - Toria cropping sequence	
	Timely sown Toria Variety "TS-46" in Rice (short duration) - Toria cropping sequence	85
	Late sown Toria Variety "TS-67" in Rice (long duration) - Toria cropping sequence	65
Black Gram	HYV Black gram variety Pratap & PU-31	80

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

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

12. Distinguished visitors to the NICRA village during the year: Nil

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

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

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

14. Publications and other products developed during the year

Item	Title /and Name of Journal	Authors name
Leaflet	Flood tolerant rice varieties	Dr. C. K. Deka, Mr. A. Pal, Dr. R. Islam, Dr. P. Sutradhar, Mr. G. Sharma, Mr. B. K. Das, Ms. N. Bhuyan, Ms. N. Nath, Mr. B. Borah, Ms. K. Boruah, Mr. G. S. Bordoloi
	Crop diversification through HYVs of Toria	Dr. C. K. Deka, Mr. A. Pal, Dr. R. Islam, Dr. P. Sutradhar, Mr. G. Sharma, Mr. B. K. Das, Ms. N. Bhuyan, Ms. N. Nath, Mr. B. Borah, Ms. K. Boruah, Mr. G. S. Bordoloi

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

1. The farmers of NICRA village have shown interest for adopting HYV of rice like Swarna Sub 1, Ranjit Sub 1, Bahadur Sub 1, Gitesh & Dipholu (for *Sali* season) and Joymati (for *Boro* season)
2. Also adopting HYV Toria varieties TS-38 & TS 46 (as timely sown crop) and TS-67 (as late sown crop)
3. Few farmers are maintaining seed bank of rice varieties Swarna Sub1, Gitesh & Dipholu and Toria variety TS-67 and serving the fellow farmers by providing seeds, also generating subsidiary income for livelihood improvement.
4. Low cost raised bed vermicomposting Unit are adopted by most of the farmers of the village and nearby ones.
5. Low cost improved goat house and poultry house become highly popular among the farmers specially for flood affected areas
6. Farmers become alert for maintaining fodder bank (Hybrid Napier) for animal feed especially during the time of flood.

Farmers getting attracted towards IFS as it minimize the risk in farming.