Annual Report on TDC-NICRA during 2019-20

Name of the KVK: TANUVAS KVK Namakkal

Major climatic details of the village (2019-20): Drought

Table 1: Distribution of rainfall in comparison with normal during 2019

Month	Normal	Actual Boinfoll	Difference	% Deviation i.e.,
	(mm)	(mm)	in comparison	<u>Acual– Normal× 100</u>
	Based on		with	Normal
	min.10years		normal	
		2019	rainiali (mm)	
Jan	1.77	0.00	-1.77	-100
Feb	15.43	0.00	-15.43	-100
March	4.29	0.00	-4.29	-100
April	8.71	56.00 (4)	51.71	542.94
May	62.36	17.00 (1)	-45.36	-72.74
June	7.07	101.00 (2)	93.93	1328.57
July	53.27	0.00	-53.27	-100
August	98.93	49.00 (2)	-49.93	96.10
September	119.31	215.00 (8)	95.69	80.20
October	137.49	83 (5)	-54.49	-39.28
November	76.00	93(6)	17	22.37
December	23.63	0.00	-23.63	-100
Total	608.26	614.00 (28)	-6.84	1458.16
Total actual rainfall during cropping season (Sowing to harvest)	530.12	541.00 (23)	14.65	1287.96

Day	June	July	Aug	Sep	Oct	Nov.	Dec	Jan.20	Feb.20	Mar.20
1	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-
5	91 mm	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	34 mm	-	-	-	-
8	-	-	-	-	-	5 mm	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	-	-	-	25 mm	-	-	-	-	-	-
11	-	-	-	48 mm	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-
13	-	-	-	14 mm	-	-	-	-	-	-
14	-	-	-	18 mm	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	45 mm	-	7 mm	-	-	-	-	-
17	-	-	-	15 mm	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-
19	-	-	-	51 mm	-	-	-	-	-	-
20	-	-	-	-	-	12 mm	-	-	-	-
21	-	-	-	-	18 mm	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-
24	-	-	-	15 mm	37 mm	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-
26	10 mm	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	7 mm	-	-	-	-
28	-	-	-	-	-	30 mm	-	-	-	-
29	-	-	-	-	-	5 mm	-	-	-	-
30	-	-	4 mm	29 mm	13 mm	-	-	-	-	-
31	-	-	-	-	8 mm	-	-	-	-	-
Total	101mm	-	49 mm	215 mm	83 mm	93 mm	-	-	-	-

Table 2: Distribution of rainfall during 2019-20 in NICRA village

(On Third week of August 45 mm of rainfall has been received, it was very useful for land preparation and sowing of Black gram and Green Gram. After the second week of August that time plants were in vegetative stage, and further periodical rainfall during September second and third week 215 mm (8 rainy days) was very useful for flowering for Black gram and Green Gram for further pod development. In the month of November (93 mm) has been received and it can be utilized for onion planting and further the crop has been harvested in the month of February and March.

Summary of interventions during 2019-20

NRM

Name of the intervention	No. of units	Area (ha)	No. of farmers
Water saving technology- Micro	10	3.6	10
irrigation (Laser spray irrigation)			
Compartmental bunding	100	40	100
Green manuring	66	26.4	66
Crop residue composting	15	-	15
Total	191	70	191

By convergence	No. of units	Area (ha)	No. of farmers
Summer ploughing	465	186	465
(Dept. of Agriculture)			
Bund formation	216	86.4	216
(Dept. of Agriculture)			
Farm ponds	6	-	6
(Heals NGO)			
Micro irrigation	87	70	87
(Dept. of Agriculture & Horticulture)			
Total	774	342.4	774

Crop Production

Name of the intervention	No. of units	Area (ha)	No. of farmers
Short duration varieties Black Gram	50	20	50
(VBN-8)			
Introduction of Short Duration and	50	20	50
synchronized maturity of green gram			
(Co-8)			
Introduction of improved groundnut Var.	14	5.6	14
Integrated pest and disease management	15	6	15
Total	115	26	115

By convergence	No. of units	Area (ha)	No. of farmers
Small onion CO-5	12	4.8	12
(Dept. of Horticulture)			
Short duration of Black Gram varieties	60	24	60
(Dept. of Agriculture)			
Short Duration of green gram varieties	45	18	45
(Dept. of Agriculture)			
Introduction of improved groundnut Var.	50	20	50
(Dept. of Agriculture)			

Fruit saplings	30	-	30
Vegetables seeds	40	2	40
Total	237	68.8	237

Livestock and fisheries

Livestock

Name of the intervention	No. of units (Where	No .of animals	No. of farmers
	ever applicable)	benefited	
Fogger (For cow	4	28	4
shed) Farmers			
Chaff cutter	3	21	3
Brush cutter	2	26	2
Development of trees	23	54	23
around animal shed			
Shelters for Desi Chicken	4	90	4
Total	36	219	36

By convergence	No. of units (Where	No .of animals	No. of farmers
	ever applicable)	benefited	
Vaccination (FMD)	-	386	67
(Dept. of Animal			
Husbandary)			
Mineral mixture		167	35
Total			

Fodder production

Interventions (Fodder	No. of Units	No. of farmers	Area (ha)
Mixed Fodder for Livestock	23	23	7
Total	13	13	7

By convergence	No. of Units	No. of farmers	Area (ha)
Mixed Fodder CoFS-29	-	25	6.25
(Dept. of Animal Husbandary)			
Total			

Institutional Interventions

Name of the intervention	Area (ha)	No. of farmers covered
Custom Hiring Centre	73	110

Total	73	110
D		

By convergence:

ſ

By convergence	Area (ha)	No. of farmers covered		
Custom Hiring Centre (MSDA Scheme)	24 ha	58		
5 Nos. of Tractors				
Total	24 ha	58		
(

Capacity Building

Thematic area	No. of Courses	No. of beneficiaries		
		Male	Female	Total
Training	6	83	23	106
Total	6	96	35	131

Extension Activities

Thematic area	No. of activities	No. of beneficiaries		
		Male	Female	Total
Field days	3	45	13	58
Exposure visit	4	79	37	116
Awareness programme	1	135	77	212
Total	8	259	127	386

Progress Report of NICRA for 2019-20

Module 1.NATURAL RESOURCE MANAGEMENT - Compartmental bunding

1. Name of the technology	In-situ moisture conservation technologies				
2. Objectives of the study	To hold the rain water for moisture				
	conservation and increase the water holding				
	capacity of the soil for longer time				
3. Thematic area	NRM				
4. Problemdiagnosis	In farmer's practice the entire field was sown				
	without any compartments, hence the isolated				
	rain water is not stored in the field, which leads				
	to insufficient moisture.				
5. Micro farming situation	Irrigated/Redsoils				
6. Year of start	2019				
7. Year of completion	2020				
8. Comparisons/treatments					

a) Farmers practice*	Without any bunding farmers sown the crop
(Describe the practice)	Compartmental bunding method
b) Improved technology	Groundnut - Dharani
9. No. of Demonstrations	100
10. Area covered for each	0.4 ha
Demonstration (ha)	
11. No. of farmers covered	100
12. Amount spent for each	Rs. 1200/- per farmer
demonstration/each farmer	
13.Contribution of demonstration from	
a) Project	250
b) Farmers	-
14.Results (Yield, Cost of cultivation, Gross	
income, Net income, B:C ratio)	Described in following table

Results – Blackgram (Kharif)

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmers practice	485	-	Rs. 15,850/-	Rs. 29100/-	Rs. 13,250/-	1.83
				(Rs.60/kg)		
In-situ moisture	635	-	Rs. 16,750/-	Rs. 38100/-	Rs. 21,350/-	2.27
conservation practice				(Rs.60/kg)		

Groundnut - (Kharif)

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmers practice	960	2150	Rs. 24,550/-	Rs. 41,280/-	Rs. 17,000/-	1.68
				(Rs.43/kg)		
In-situ moisture	1320	2950	Rs. 26,150/-	Rs. 56,760/-	Rs. 30,610/-	2.17
conservation practice				(Rs.43/kg)		





Module 2. CROP PRODUCTION

Climate resilient varieties

1. Name of the technology	Introduction of Short Duration and synchronized
	maturity of Blackgram Var. VBN – 8.
2. Objectives of the study	To improve the yield and performance of black
	gram
3. Thematic area	Crop production
4. Problemdiagnosis	Rainfall showers occurs at harvesting stage
5. Micro farming situation	Rainfed
6. Year of start	2019
7. Year of completion	2019
8. Comparisons/treatments	1. Local variety
	2. Improved variety (VBN -8)
9. No. of Demonstrations	50
10. Area covered for each demonstration(ha)	0.4 ha
11. No. of farmers covered	50
12. Amount spent for each	Rs.1530/-
demonstration/each farmer	
13. Contribution of demonstration from	NICRA share :Rs.1530/-
a) Project	
b) Farmers	
14. Results (yield, cost of cultivation, gross	
income, net income B : C ratio, soil	
moisture. Indicators / plant characters of	Described in following table
flood/ drought tolerance in terms growth	
and yield components etc.,	

Results - (Kharif)

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers	594	-	16300	35640	19300	2.18	-
practice				(Rs.60/kg)			
Improved	812	-	16850	48720		2.89	-
varieties				(Rs.60/kg)	31870		





Short Duration, synchronized matured Green Gram Variety

1. Name of the technology	UP- Scaling of Successful interventions -
	Introduction of Short Duration and
	synchronized maturity of green gram (C0 -8)
2. Objectives of the study	To improve the yield and performance of Green
	gram varieties
3. Thematic area	Crop production
4. Problem diagnosis	Rainfall showers occurs at crop harvesting stage
5. Micro farming situation	Irrigated
6. Year of start	2019
7. Year of completion	2020
8. Comparisons/treatments	1.Local variety
	2. Improved variety (C0 -8)
9. Area covered for each demonstration (ha)	0.4 ha
10. No. of farmers covered	50
11. Amount spent for each	Rs.2,600/- for each demonstration per farmer
demonstration/each farmer	
12. Contribution of demonstration from	
a) Project	NICRA share: Rs.2,600/-
b) Farmers	
13. Results (yield, cost of cultivation, gross	
income, net income B:Cratio)	Described in following Table

Results - (Kharif)

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers	601	-	16874	35640	18766	2.11	-
practice				(Rs.60/kg)			
Improved	835	-	17650	50100	32450	2.83	-
varieties				(Rs.60/kg)			





Climate resilient varieties

1. Name of the technology	Additional crrop cultivation during excess rainfall – Solanaceous and pandhal vegetable cultivation
2 Objectives of the study	To improve the regular income from the farmers field
3 Thematic area	Crop production
4 Problem diagnosis	Mono cropping – Small onion
	Price fluctuation in small onion
	small onion is a Seasonal crop
	farmers are getting income from their field during
	the harvesting season (single harvested crops
	likecereals, pulses and oil seeds), after harvested
	of there is no regular income to the farmers
5 Micro farming situation	Irrigated
6 Year of start	2019
7 Year of completion	2020
8 Comparisons/treatments	1. Farmers practice
	No additional income generated from the
	cultivation practices
	2. Technology demonstrated
	Daily income generated to the farmers through
	vegetables cultivation and sales of vegetables
	through market
9 Area covered for each demonstration (ha)	0.4 acre
10 No. of farmers covered	10
11 Amount spent for each	80,000/-
demonstration/each farmer	
12 Contribution of demonstration from	
a) Project	Dept. of horticulture
b) Farmers	
13 Results (yield,cost of cultivation, gross	
income, net income B:C ratio)	Described in following Table

Results

Treatments	Vegetable yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers practice	9.7	-	75,550	148750	73200	1.97	-
Improved varieties	14.1	-	93,600	217500	123900	2.32	-





Crop Prodution (Water saving technologies)

1. Name of the technology	Water saving technologies – Laser spray micro irrigation / Rainhose method of irrigation for Groundput and small opion
2. Objectives of the study	Awareness to be created and utilize the stored water
	in a more efficient manner by micro irrigation
	system to minimize the use of water and increase
	the area of cultivation
3. Thematic area	Crop production
4. Problem diagnosis	Flood irrigation –it requires more than 2 lakhs litre
	of water/acre/irrigation.
	Due to non availability of water during critical
	stages of groups yield to be reduced
	stages of crops yield to be reduced.
5. Micro farming situation	Irrigated
6. Year of start	2019
7. Year of completion	2020
8. Comparisons/treatments	Farmers practice: Flood irrigation
	(20 cent/irrigation)
a). Farmers practice*	Flood irrigation
b).Improved technology	Conservation measures: Laser spray irrigation
	(1 acre irrigation in same quantity of water)
	(1 dere inigation in sume quantity of water)
9. No. of Demonstrations	10
10. Area covered for each demonstration(ha)	0.2 ha
11. No. of farmers covered	10
12. Amount spent for each demonstration/each	Rs. 12,500/-
farmer	
13. Contribution of demonstration from	NICRA share: 12,500
a) Project	Farmer share: Rs 12 500/-
b) Farmers	1 amor share. RS. 12,300/-

14. Results (yield,cost of cultivation, gross income, net income B:Cratio, other parameters like amount of water saved in terms of irrigation, yield components, soil moisture depth etc.	Described in following table
---	------------------------------

Results

Groundnut - Rabi

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivatio n (Rs/ha)	Gross Income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers practice (Flood Irrigation)	1272	2875	Rs. 30,150/-	Rs. 57,240/- (Rs.45/kg)	Rs. 27,090/-	1.90	-
Water saving technology- Laser spray Micri irrigation for Groundnut	1925	3825	Rs. 33,550/-	Rs. 86,625/- (Rs.45/kg)	Rs. 75,575/-	2.58	-

Onion - Rabi

Treatments	Seed yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross Income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers practice (Flood Irrigation)	13,200	-	2.98,000	4,16,225	1,18,225	1.40	-
Water saving technology- Laser spray Micro irrigation for Small onion	15,500	-	2,23,750	4,88,750	2,65,000	2.18	-





· · · · · · ·	
1. Name of the technology	Nutrient management by incorporation of Green manure
2. Objectives of the study	To improve the fertility of soil by incorporation of
	multigrains
3. Thematic area	Nutrient management
4. Problem diagnosis	Nutrient deficiency
	Lake of availability of Farmyard manure during
	monsoon period
5. Micro farming situation	Irrigated
6. Year of start	2019
7. Year of completion	2020
8. Comparisons/treatments	
a) Farmers practice*	1. Farmers practice of nutrient management
(Describe the practice)	(does not adopted any technology) -
b) Improved technology	2. Improved nutrient management practice by
(Mention test crop and	incorporate of green manures
varieties/variety used in demonstration)	
9 No of Demonstrations	66
9. No. of Demonstrations	00
10. Area covered for eachdemonstration	0.4
(ha)	
11. No. of farmers covered	66
12. Amount spent for each	Rs.240
demonstration/each farmer	
13. Contribution of demonstration	
from	
a) Project	Rs.560
b) Farmers	Rs. 240
14. Results	
(yield, cost of cultivation, gross	
income, net income B:Cratio, other	
parameters like vigor, ear head	Described in following table
weight, No. of pods/plant if	č
applicable and population/sq.m at	
harvest)	
(Brief results to be summarized)	
15. Any other information/details	-

Crop production: NUTRIENT MANAGEMENT

Results

Treatments	Seed / Grain yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers practice	10500	-	74312	147865	73553	1.99	_
Improved technology (INM etc.,)	12100	-	77899	178643	100744	2.29	-



CROP PRODUCTION: PLANT PROTECTION

1. Name of the technology	IPDM technology in small onion CO -4
2. Objectives of the study	To reduce the pesticide uasege
	To reduce the pest and disease population like
	Thrips and basal rot incidence
	To reduce the cost of cultivation
3. Thematic area	Crop production
4. Problem diagnosis	Onion is mainly affected by basal rot and thrips resulting in yield loss of $20 - 30$ %
5. Micro farming situation	Irrigated
6. Year of start	Oct. 2019
7. Year of completion	Jan. 2019
8. Comparisons/treatments	Test crop: Small onion Non – IPDM field

a). Farmers practice* b) Improved technology	 Farmers method of plant protection (Non – IPDM practice) IPM technology: Bulb treatment and soil application of Trichodermaviride + Pseudomonas fluorescence, Beaveria bassiana, Barrier crop fodder maize seed, Blue and yellow sticky trap –
9 No of Demonstrations	10Nos./ac.
9. NO. OF Demonstrations	15
10. Area covered for eachdemonstration (ha)	0.4
11. No. of farmers covered	15
12. Amount spent for each demonstration/each farmer	Rs. 600/-
13. Contribution of demonstration from	NICRA project
a) Project	Rs.600/-
b) Farmers	Rs.600/-
14. Results (yield, cost of cultivation, gross income, net income B:C ratio)	Described in followi ng table
15. Any other information/details	-

Table: Influence of IPM technologies on yield and income in cotton

Treatment s	Seed/Grain yield (kg/ha)	Fodder Yield (kg/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Remarks
Farmers practice	11,050	-	1,54,740	3,31,500	1,76,760	2.10	Unawareof practices
Improved method /IPM	14,500	-	1,52,650	4,35,000	2,82,350	2.85	Timely following the IPDM practices

- Price of sale bulb @ Rs. 30/kg
- Higher herbicide application, over irrigation, cool climate leads to severe pest and disease outbreak which leads to yield loss.





2. Objectives of the study To	Γο improve the nuteient status of fodder and increasing
111	nilk yield
3. Thematic areaLi	Livestock
4. Problem diagnosis SI fo Li ra Fe	Shortage of green fodder due less awareness of green Fodder cultivation Livestock reared mainly based on grazing and no special ration was provided Feeding low nutritive and locally available feed grains
5. Micro farming situation Ir	rrigated
6. Year of startSet	Sep. 2019
7. Year of completion In	n standing Crop
8. Comparisons/treatments Te	Test crop CoFS 29 variety
a). Farmers practice*1*(Describe the practice)2b) Improved technology2	 Farmers practice: Rearing of livestock by providing dry fodder, low nutritive feed stuffs and grazing only. Improved technology: green fodder cultivation (multicut sorghum) and provided to livestock
9. No. of Demonstrations 23	23
10. Areacoveredfor0.eachdemonstration (ha)0).4
11. No. of farmers covered23	23
12. Amount spent for each R demonstration/each farmer	Rs. 1600/-
13. contribution of demonstration from	
a) Project N	NICRA share: 800
b) Farmers Fa	Farmer share : 800
14. Results (Fodderyield,cost of cultivation, gross income, net income B:Cratio)	Described in following table
15. Any other information/details	-

Module 3: LIVE STOCK AND FISHERIES

Table: Potentials of fodder varieties under irrigated or rain fed environment

Treatments	Fodder Yield (t/ha)	Cost of cultivation (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio	Quantity used for live stock and qty. sold
Local variety fodder	8.6	11050	25800	14750	2.33	6225 kg 2375 kg
Improved variety	28.5	15550	57000	41450	3.6	18000 kg 10500 kg





Live stock and fisheries: Shelter Management

1. Name of the technology	Shelter management in dairy
2. Objectives of the study	Improved housing / shelter for protection of livestock
	against extreme weather
3. Thematic area	Live stock
4. Problem diagnosis	-
5. Micro farming situation	Small and marginal farmers dependent on mostly
	daily wages and rainfed agriculture
6. Year of start	2019
7. Year of completion	2020
8. Comparisons/treatments	Type of bird species: local
a) Traditional method	1. Traditional method of housing
* (Describe the practice)	(thathed roof)
b) Improved technology	2. Improved method of housing (Fogger)
9. No. of Demonstrations	4
10. No. of families covered in	4
Demonstration	
11. No. of animals benefited/farm family	10
12. Amount spent for each	Rs. 5000/-
demonstration/each farmer	
13. Contribution of demonstration from	
a) Project	Rs.5000/-
b) Farmers	Rs. 6,800/-
14. Results	Described in following table
15. Any other information/details	-

Results

Table: Performance of improved shelters in

Parameters with unit	With fogger shed	Without fogger shed
Temperature inside the shed	25.6	28.2
Temperature outside the shed in summer	29	29
Milk yield (Litres/day)	6.4	5.7
SNF content (%)	7.9	7.9
Fat content (%)	3.4	3.4



Module 4 :INSTITUTIONAL INTERVENTIONS

Example: Custom Hiring center

1. Name of the technology	Custom hiring center
2. Objectives of the study	To establish community based custom hiring center to provide hiring services of agricultural operations in a village
3. Thematic area	Institutional innovations
4. Problem diagnosis	Low productivity of crops due to lack of timely Operations
5. Micro farming situation	Group based activity in a village
6. Year of establishment	2011
7. No. of families as members in community based custom hiring center	19
 8. Contribution for the establishment of the center (Rs) (a) From the Project 	Rs. 7,90,692 (in the form of farm implements)
(b) Farming community	Rs. 1,60,000/-
(c) Loan from the Bank	Rs. 6,00,000/- (Punjab National Bank, Namakkal)
(d) Other sources	-

Total	Rs. 7,60,000/- (Including Registration fee)
9. Process of establishment	Oct 2011
10. Date of formation of Management committee	23.03.2011
11. Types of equipments procured for	Annexure
running the center	1. Rotovator
	2. Spring tyne cultivator
	3. Seed driller
	4. Bund former
	5. Ridge former
	6. Chain block
	7. Chain pully
	8. Chisel plough
	9. Electronic weighing balance (50 g capacity)
	10. Electronic weighing balance (500 kg capacity)
	11. Electronic weighing balance (100 kg capacity)
	12. Community incubator
	13. Liquid nitrogen container (351 capacity)
	14. Liquid nitrogen container (31 capacity)
	15. Mobile sprinkler
	16. Mobile sprinkler accessories
	17. Five tyne arrow cultivator
	18. Spring loaded nine Tyne cultivator
	19. Tractor attached tanker
	20. Tractor attached sorghum harvester
	21. Maize cob harvester
	22. Nine Tyne cultivator without spring
	23. Power sprayer
12. No. of persons engaged on hire basis in running and maintenance of equipments	19
13. No. of meetings held by the	2 Nos.
Management committee in a year with dates	
14. Recommendations of the	Frequent meeting conducted by VCRMC
committee for improved	
tunctioning	Good
15. Kesuits/ performance	0000
the center	-

Table: Performance of custom hiring center

Yea	Crops in	Area	Amount	Amount	Amount	Net amount	Number of	Additional
r	demand	covered	realized	spent on	incurred in	realized due	farmers	Yield
	for	with	due to	contact	maintenance	to custom	benefitted	advantage
	servicing	hiring	services	service	of tools and	hiring		due to
	custom	services	with	personne	center	center		timely
	hiring	(ha)	custom	1				farm
	center		hiring	For				operations
			services	running				
			(Rs)	the				
				center				
201	Kharif	23	19,800/-	11,600/-	-	8,200/-	37	-
8-								
19								
	Rabi	38	44,415/-	26,805/-	-	17,610	54	-
	Others	12	10,400/-	6320/-	-	4,080	19	-
	Total	73	74615	44725		29890	110	

5. Capacity Building

Date	DateTitle of the training		duratio No.of		participa	Remarks	
	programmes	n in days	programmes Organized	Male	Female	Total	-
15.5.2019	Training programme on Summer management and prevention of nitrate nitrate toxicity in dairy animals	1	1	13	4	17	-
6.12.2020	Off campus training cum demonstration on ICM Practices in small onion	1	1	16	9	25	-
11.9.2019	Integrated farming system	1	1	11	3	14	-
6.12.2020	Training programme on IPDM in small onion	1	1	16	9	25	-
13.12.202 0	Off campus training cum demonstration on Soil fertility management	1	1	25	10	35	-
28.1.2020	Off campus training cum demonstration on Composting technology	1	1	15	-	15	-
	Total	6	6	96	35	131	-













6. Extension Activities

Date	Title of the activity	No.of	No. of participants			Remarks
		programmes Organized	Male	Female	Total	
02.10.2020	Celebrated 150 th birth aanivarsary of Mahatma Gandhi	1	135	77	212	-
16.10.2019 & 23.11.2019	Desimination of NICRA activities to school childrens of sarojini naidu and National public school namakkal	1	117	104	221	
04.11.2019 & 19.02.2020	Field days (Demonstration of short duration Blackgram – VBN-8)	3	39	12	51	-
20.01.2010	D					
28.01.2010 & 29.01.2020	Exposure visit- (IIHR,Bangaluru & KVK, Davanagere, Karnataka)	2	6	5	11	-
11.02.2020	Exposure visit - AIIRLIVAS (Advanced institute for integrated research in Livestock and Animal sciences and farmers conclave 2020) at Thalaivasal	1	33	27	60	-
24.02.2020	Farmers exposure visit to Krishimela @ Namakkal	1	22	3	25	-
13.03.2020	Workshop, TNAU, Coimbatore	1	18	2	20	-
Total		8	118	49	167	-

















7.Up-scalable Technologies

S. No	Name of the Technology	Previous area of	Target area achieved during 2010-20 (ba)	Area of adoption achieved during	Remarks
1.	Water saving laser spray micro irrigation for small onion	1.4 ha	4 ha	10 ha	_
2.	Introduction of short duration and synchronized maturity Blackgram Var. VBN -8	10 ha	20 ha	44 ha	-
3.	short duration and synchronized maturity Greengram Var. Co-8.	10 ha	20 ha	38 ha	-
4.	Nutrient management based on soil test	26.4 ha	40 ha	23 ha	-
5.	Institutional arrangement to mitigate health issues for livestock Vaccination for foot and Mouth disease	34 farmers	34 farmers	150 farmers (Animal health department)	-

1. Table: Information on NICRA Village Clusters

S.No	Name of the villages in the cluster		Year of Inclusion	Intervention undertaken in new
	Old villages	New Villages	of new villages	villages
1	Vadavathur	Thipramadevi	2018	Water saving: Laser spray micro
	&			irrigation for groundnut & onion
2	Jambumadai	Muttanchetti &	2019	Short duration varieties Black Gram
		Sevendhipatti		(VBN-8)
				Introduction of Short Duration and
				synchronized maturity of green gram
				(Co-8)
				Introduction of improved groundnut
				Var. Dharani
				Climate based Integrated Pest and
				Disease Management in small onion
				Soil testing & issue of soil health cards

2. Information on Technology Saturation during 2019-20

S.No	Name	Module	Technology selected for	Achieve	ement during	2019-20	% Saturation achieved (Area of adoption of intervention /Area under the crop in the village) or No. of animals covered by the intervention/Total no. of animals in the village or No. of households covered / Total no. of households in the village)
	of the NICRA village		saturation	Area covered (ha)	No. of farmers benefited	No.of animals benefited	
1	Vadava thur & Jambu	NRM	Water saving technology: Laser spray micro irrigation for groundnut & onion	1	2	-	43 farmers (21.98%)
	madai		Compartmental bunding	32	80	-	243 farmers (81%)
			Green manuring	18.4	36	-	45 farmers (22.5%)
			Crop residue composting	-	15	-	Newly introduced 2.1%
		Crop Production	Short duration varieties Black Gram (VBN-8)	10	25	-	118 farmers (59.67%)
			Introduction of Short Duration and synchronized maturity of green gram (Co-8)	10	25	-	139 farmers (69.50%)
			Introduction of improved groundnut Var.	2.8	7	-	16 farmers (8.54%)
			Climate based Integrated Pest and Disease Management in small onion	4	10	-	128 farmers (64%)

		Live stock	Fogger (For cow shed) Farmers	4	28	4	Newly introduced
		fisheries	Chaff cutter	-	3	21	32 farmers (25%)
			Brush cutter	-	2	26	18 farmers (14.14%)
			Development of trees around animal shed	-	23	54	145 farmers (72.5%)
			Shelters for Desi Chicken	-	4	90	78 farmers (52%)
			Mixed Fodder for Livestock	7	23	70	46 farmers (35.9 %)
2	Thipra madevi, Muttan	NRM	Water saving technology: Laser spray micro irrigation for groundnut & onion	2.8	8	-	38 farmers (5.84%)
	chetti &		Compartmental bunding	8	20	-	243 farmers (32.40%)
	Sevend hipatti		Green manuring	8	30	-	54 farmers (7.2%)
		Crop Production	Short duration varieties Black Gram	10	25	-	68 farmers (22.67%)
			Introduction of Short Duration and synchronized maturity of green gram	10	25	-	108 farmers (34.67%)
			Introduction of improved groundnut Var.	2.8	7	-	16 farmers (3.54%)
			Climate based Integrated Pest and Disease Management in small onion	2	5	-	84 farmers (11.2%)
			Soil test based nutrient management	10	23		178 farmers (23.73%)

3. Benefits accrued due to different interventions under NICRA in the adopted villages under different modules since inception of the project

S.No	Module	Name of the	Previous	Additional	Monito	Benefit
(a)	(b)	intervention	adoption	area(ha) or	ry	accrued
		(c)	Area ((ha)/	Number	benefit	since
			Number	covered/	(Rs./ha)	inception
			before	benefited	(f)	(e) x (f)
			NICRA	since		
			(d)	inception		
				(sum of all		
				years)		
				(e)		
1	NRM	Desilting / reno	104 ha	362.8 ha	-	-
		vation of Senguttai,				
		Aayiramkuttai,				
		Ponnankannikuttai,				
		Periyakalingikuttai				
		Farm ponds	Nil	28 (In	-	-
		I I I III		farmers field		
				with the		
				contribution		
				of MGRS)		
		Check dams	2	13	-	-
		Percolation tanks	0	2	-	-
		Recharge structures	2	8	-	-
		for bore wells				
		Supplementary	Nil	96 (with	-	-
		irrigation with		lining sheet)		
		harvested water		28 (without		
				lining)		
		In-situ moisture	135 ha	525 ha	-	-
		conservation				
		measures (specify)				
		Soil quality and	Nil	504 ha	-	-
		fertility				
		management		1		
	9	Weather station	-	1	-	-
2	Crop	Climate resilient	N1l	503 ha	69250	3,48,32,750
	production	Crop diversification	NI:1	161 ha	12160	10.04.240
		Intergroupping	INII NUI	104 IIa 128 ho	57020	19,94,240
		systems	1111	+20 IIa	51920	2,47,09,700
	 	Farm	Nil	307 ha	35500	1.08.98.500
1	1				22200	_,,

		mechanization for resource conservation				
		(specify)				
		Resource / water saving technologies (Eg. Zero tillage maize)	Nil	-	-	-
		Nutrient management of crops	Nil	298	16552	49,32,496
		Better crop protection practices	Nil	487	97000	4,72,39,000
3	Live stock	Improved fodder varieties	Nil	55.29	8340	4,60.368/-
		Fodder preservation through silage	Nil	46	8340	3,83,640/-
		Feed enrichment techniques	Nil	214 farmers	11300	24,18,200/-
		Backyard poultry	Nil	43 farmers	1500	64,500/-
		Health management interventions	Nil	415 farmers	2700	11,20,500/-
		Shelter management	Nil	215 farmers	4000	8,60,000/-
		Interventions in fisheries	Nil	13 farmers	6500	84,500/-
4	Institutional intervention s	Custom hiring center	Nil	736 farmers	-	10,10,786/-
		Seed bank	Nil	64 farmers	14000	8,68,000/-
		Fodder bank	Nil	21 farmers	7500	1,57,500/-

4. Budgetary Details

-	-			
Sanctioned RE	Opening balance	Funds received	Expenditure up	Closing balance as
for 2019-20	as on 1 st April		to 31 March	on 01 st April 2020)
	2019		2020	
10,35,000/-	11,775/-	10,23,225	10,35,000/-	0

Success stories of the farmers/technologies) particularly on the adoption of resilient practice

1			Einst manner C. Amer		
1	Iname	:	Middle Name:		
			Surname: subramani		
2	Postal address	:	S. Amutha		
			W/o subramani		
			Jambumadai villag	e	
			Vadavathur post,		
			NamakkalDt.Tamil Nadu		
2	A		Farmer Mobile No:	9677424683	
3	Age	:	41 years		Doinfod: 2 00
4	Land holding (acres)	:	Crops group:	$\Lambda reg (garag)$	Rainied: 2 ac
5	Farming experience	·	Onion	Alea (acles)	fioudclivity (kg/acie)
			Foddar Sorahum	1	
			Sorahum	1.5	
			Sorghunn	2.3	Poultry (no.): 52
			Livestock (IIO.): CO	w 10	Poultry (IIO.): 52
			Small ruminants (n	a): Coat 4	Earm machinery evoilable:
			Silian funninants (il	0.). Goal 4	Spraver, chaff cutter, brush
					cutter, Tractor
6	Description of	:	1. crop production:		
	innovation /		Cultivated onion in	n one acre and t	the average income of Rs. 80,000/-
	adoptedClimate		from the agriculture produce		
	resilient practices		2. Poultry night shelter:		
	(1 or 2 practices)		She adopted low cost night shelter for poultry birds to prevent the		
			birds from heat stress and predators as an innovation by seeing the		
	Describe in not more	intervention of KVK under NICRA scheme to fellow farmers in		A scheme to fellow farmers in his	
	than 100 words and		village and the average income of Rs. 36,000/- from poultry		
	attach separately /		3 Dairy shed		
	photo of the innovation		She built dairy shed for dairy animals to withstand heat stress		
	/adopted technology)		and the annual income of Rs. 2,05,000/- from dairy		
			3. Improved shelter for extreme weather condition		
			sne installed the Fogger to dairy shed to prevent the heat stress of		
			A Cultivation of mixed fodder:		
			By cultivating mixed fodder she can able to rear the livestock in a		
			balanced ration at low cost.		
			5. Dry fodder storage bank:		
			In her farm, she p	reserved the d	ry fodder storage bank by putting
			aluminium sheet over the fodder.		
			6. Disease preventi	on strategies	

			Adoption of regular vaccination & deworming of small ruminants
			7. Feeding
			Feeding balanced concentrate feed and unconventional feeds such as
			onion crop residue for better weight gain and to overcome stress
			during vagaries of climate change
			8. Clean Milk Production
			Adopted strategies of by using teat dip with KMNO4
7	Impact of innovation	:	In this NICRA village more than 40% of the poultry farmers, 80% of
	on other farmers		the Dairy farmers adopted housing management.60-70% of the
	(Quantify in terms of		farmers cultivated green fodder for their livestock. Majority of the
	no. of other farmers		farmers (90%) preserved their fodder for feeding their livestock.
	adopted, area covered)		
8	Any other information	:	She has effectively integrated dairy, goat and poultry enterprise with
	pertaining to		agriculture and doing organic agriculture and fetching more income
	innovation/ adoption of		from crop component too.
	the technology not		
	covered above		