

On Farm Trial (2010-11)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Blackgram	Irrigated	Lower yield due to non application of fertilizers, non adoption of foliar spray during flowering stage, lack of knowledge on management practices	Assessment of the performance of Pulse wonder in pulses	5	Basal dose of fertilizer + foliar spray of pulse wonder (6.25 kg/ha) at flowering stage + NAA @ 40 ppm on pre flowering and 15 days after 1 st spray.	No. of pods/plant	31.56
						Yield kg/ha	865.56
						BCR	2.89 : 1

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
Application of pulse wonder 2.25 kg/acre with 200 liters of water is effective for increasing the yield (5 – 10%) compared to 2% DAP spray, decrease the flower shedding and increase the drought tolerance of blackgram plants	The farmers were satisfied with foliar application of pulse wonder for blackgram to increase the yield and induced drought tolerance in blackgram	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Conventional method of blackgram cultivation and without foliar nutrient application	Farmer's practice	686.10	Kg/ha	20874.50	2.42 : 1
Technology option 2 Basal dose of fertilizer + foliar spray of 2% DAP at flowering	TNAU, Coimbatore	822.64	Kg/ha	27018.80	2.69 : 1

stage and 15 days after first spray					
Technology option 3 Basal dose of fertilizer + foliar spray of pulse wonder (6.25 kg/ha) at flowering stage + NAA @ 40 ppm on pre flowering and 15 days after 1 st spray.	TNAU, Coimbatore	865.56	Kg/ha	28950.20	2.89 : 1

Results of On Farm Trial – 2. Agronomy (2010-11)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Redgram	Irrigated	Lower yield due to improper planting method, maintenance of poor plant population, non adoption of foliar spray during flowering stage, lack of knowledge on management practices	Assessment of planting method in Redgram	5	Seedling raised in polybags and transplanted on 25 – 28 days after sowing, seed treatment with (Rhizobium, Trichoderma, Phosphobacteria), NAA, pulse wonder and Thiodicarb spray	No. of plant / m ² No. of pods / plant Yield kg/ha	1.85 244 790.94
						BCR	2.16 : 1

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
Direct sowing method of redgram with seed treatment of Rhizobium, Trichoderma, Phosphobacteria, NAA & 2% DAP foliar spray and Thiodicarb spray to increase the higher yield (831.58 kg/ha) in redgram compared to transplanting method.	The farmers were satisfied with direct sowing of redgram cultivation gives higher yield	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Conventional method of direct sowing	Farmer's practice	725.68	Kg/ha	21104.24	1.90 : 1
Technology option 2 Seeds dibbling by hand recommended by TNAU. Direct sowing with seed treatment (Rhizobium, Trichoderma, Phosphobacteria), NAA, pulse	TNAU, Coimbatore	831.58	Kg/ha	24757.94	2.32 : 1

wonder and Thiodicarb spray.					
Technology option 3 Seedling raised in polybags and transplanted on 25 – 28 days after sowing, seed treatment with (Rhizobium, Trichoderma, Phosphobacteria), NAA, pulse wonder and Thiodicarb spray	TNAU, Coimbatore	790.94	Kg/ha	22010.42	2.16 : 1

Results of On Farm Trial – 3 – Horticulture (2010-11)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Chillies	Irrigated	Yield reduction due to incidence of pest & disease complex	Management of chillies pest & disease complex	10	IPM techniques in chillies for pest & disease complex management	Disease incidence	9.5
						Pod borer incidence	8.92
						Yield	13.04
						BCR	2.61

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
1. Azadirachtin @ 2ml/lit on 25 DAT 2. Difenconazole 0.5 ml/lit 35 th & 60 th DAT (need based) 3. Imidachloprid @ 2ml/lit (need based) 4. P.flouescens @ 10g/lit on 40 DAT 5. Flubendiamide 25 g ai/ha 6. Set up pheromone trap 12 no/ha	Technology parameters are being done by scientist only & farmers were actively participated in collecting data. The farmers were able to record the yield data and handed over to the scientists.	Nil	Nil

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Chemical control with carbendazim & synthetic pyrethroids	Farmer's practice	8.55	t/ha	24850	1.71
Technology option 2 1. Spraying of mancozeb @ 2g/lit at 15 days interval 2. Set up pheromone trap @ 12 no/ha 3. Spraying of chlorpyrifos @ 2ml/lit	TNAU, Coimbatore	10.98	t/ha	41860	2.20
Technology option 3 1. Azadirachtin @ 2ml/lit on 25 DAT	TNAU, Coimbatore	13.04	t/ha	56280	2.61

2. Diefenaconazole 0.5 ml/lit 35 th & 60 th DAT (need based)					
3. Imidachlopid @ 2ml/lit (need based)					
4. P.flouescens @ 10g/lit on 40 DAT					
5. Flubendiamide 25 g ai/ha					
6. Set up pheromone trap 12 no/ha					

Results of On Farm Trial – 4 Animal Science (2010-11)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Poultry	Poultry farmers	Mortality in Desi birds	Control of Ranikhet disease in desi chicken	50 units	Birds with oral pellet vaccine on 7 th and 14 th day & RDVK at 8 th week	Disease incidence	Ranikhet prevalent at 2 nd week in chicks
						Mortality %	5%
						BCR	4.87

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
The farmer accepts the effectiveness of the vaccine and was happy over the reduced disease incidence	Not easily available in the market	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) No vaccination	Farmer's practice	80 – 120 eggs	Nos	6110	2.88 : 1
Technology option 2 Lasota vaccine on 7 th & 14 th day & RDVK at 8 th week	TANUVAS	80 – 120 eggs	Nos	12230	4.76 : 1
Technology option 3 Oral pellet vaccine on 7 th & 14 th day & RDVK at 8 th week	TANUVAS	80 – 120 eggs	Nos	12590	4.87 : 1

Results of On Farm Trial – 5 Animal Science (2010-11)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Dairy	Dairy farmers	Low milk production in dairy cows	Area specific mineral mixture for dairy cows	10 units	Supplementation of TANUVAS smart mineral mixture (Area specific mineral mixture)	Milk yield	300 – 500 ml
						Onset of first oestrus after calving	3 – 4 months
						No of insemination for one conception	1 – 2

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
The farmers feels that the animals breeding problems are reduced along with increasing milk yield	Increase in milk yield. Animal is healthy with shining hair coat. Animal comes to heat regularly	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) No mineral mixture supplementation	Farmer's practice	6	Litres / animal	32,940	
Technology option 2 TANUVAS mineral mixture supplementation	TANUVAS	6.3	Litres / animal	34,587	1.05 : 1
Technology option 3 Area specific mineral mixture supplementation	TANUVAS	6.5	Litres / animal	35,685	1.08 : 1

Results of On Farm Trial –6 Animal Science (2010-11)

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Dairy	Dairy farmers	Performing A.I. for animals when they come for estrus at different periods	Synchronization of estrus in dairy cows	5	Synchronization of estrus in dairy cows with CIDR and PGF _{2α} injection. Synchronization of estrus with GNRH and PGF _{2α} injection	Stage of oestrus Conception rate	Dioestrus 60 – 80 % (70%)

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
It is effective only upto 70%. Technical staff is essential for implementation	Very effective and technical guidance is essential in implementation	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) AI normal	Farmer's practice	Out of 5 animals 2 animals conceived	40% conception rate	18,300	1.5 : 1
Technology option 2 CIDR and PGF _{2α} injection	TANUVAS	Out of 5 animals 4 animals conceived	80% conception rate	25,620	2.1 : 1
Technology option 3 GNRH and PGF _{2α} injection	TANUVAS	Out of 5 animals 3 animals	60% conception rate	21,960	1.8 : 1

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Results of On Farm Trial –7 Home Science (2010-11)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Health status	-	Iron deficiency among Pre-school children	Assessment of KVK nutrimix on health status of Anaemic preschool children	Supplementation period 5 months	Supplementation of KVK nutrimix on Anaemic preschool children of Konathi village.	Clinical examination	Face – eye, nose, lips, teeth, ear Skin, stomach, hands, legs, nail, hair
						Anthropometric measurements	Height, weight, head circumference, chest circumference, mid upper arm circumference
						Estimation of blood Haemoglobin	Degree of Anaemic – normal – >11 g/dl Mild – 9 – 11 g/dl Moderate – 7 – 9 g/dl Severe - < 7

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
Blood Haemoglobin level were <12 mg/dl initially for all the children. After supplementation the hb level increased by 1.2 to 1.4 g/dl in group II children and 1.6 to 2.0 g/dl in group III children. Thus group III children shifted to normal and mild category from moderate and severe anaemic.	Mothers of the children are willing to feed their children with KVK Nutrimix even after completion of the study	-	-

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Technology Assessed	Source of Technology	Production / Performance	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Regular Home Diet – 10 children	-	-	-	-	-

Technology option 2 Sesame incorporated nutrimix - 10 children	TNAU, Madurai campus	7 out of 10 children were free of Anaemia	-	-	-
Technology option 3 KVK Nutrimix – 10 children	KVK, Kattupakkam	10 out of 10 children were free of Anaemia	-	-	Improvement in health status-weight and haemoglobin

Results of On Farm Trial –8 Fisheries (2010-11)

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter
1	2	3	4	5	6	7	8
Ornamental fish farming	-	Disease outbreaks in ornamental fish farming	Assessment of formulated feed fortified with herbal mix for colour and immune enhancement	2	Formulated feed with herbal mix	Biogrowth parameters (Growth, survival & color)	Average body weight - 28 g Survival - 80% Growth increment – 10.72 %

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Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
9	10	11	12
The formulated feed with herbal mix improved the colour, growth rate and disease resistance in ornamental fish – Gold and koi carp	Farmers get more price for their fishes due to improved colour and less disease occurrence.	-	-

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Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's					

practice) Farm made feed					
Technology option 2 Formulated feed with herbal mix	TANUVAS	The parameters assessed are qualitative like improvement in colour and immunity			
Technology option 3					

