



ACTION PLAN

(April 2018 to March 2019)



Krishi Vigyan Kendra, Angul, Odisha
Zone-V (ATARI, Kolkata)



Orissa University of Agriculture & Technology
Bhubaneswar

1. Name of the KVK : Krishi Vigyan Kendra, Angul

2. Name of host organization : Orissa University of Agriculture & Technology, Bhubaneswar

Training programmes to be organized (April 2018 to March 2019)

(a) Farmers and Farm women

Thematic Area	Title	No of training	Duration (Days)	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total
I. Crop Production										
Integrated Crop Management	Contingent crop planning for different types of drought situation	1	1	Off campus						25
Weed Management	Integrated weed management in medium land transplanted rice	1	1	Off campus						25
Cropping Systems	Improved method of cultivation of pulses (greengram, blackgram & gram) under residual soil moisture in rice-fallow situation	1	1	Off campus						25
Integrated Crop Management	Post-harvest management of medium land rice	1	1	Off campus						25
Water management	Water management in major oilseeds	1	1	Off campus						25
Integrated Crop Management	Improved Agronomic practices for medium land rice	1	1	Off campus						25
Weed Management	Integrated weed management in blackgram	1	1	Off campus						25
Integrated Crop Management	Improved method of sugarcane cultivation	1	1	Off campus						25
II. Soil Health and Fertility Management										
INM	Integrated nutrient management in rainfed upland rice	1	1	Off campus						25
Soil fertility management	Soil Health Card is a tool for nutrient management in field crops	1	1	Off campus						25
Production and use of organic inputs	Vermicomposting and its use in agriculture	1	1	Off campus						25
III. Horticulture										
Nursery raising	Nursery raising techniques under low cost polyhouse	1	1	Off campus						25
Propagation techniques of Ornamental Plants	Propagation techniques of ornamental plants	1	1	Off campus						25

Thematic Area	Title	No of training	Duration (Days)	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total
Production of low volume and high value crops	Production technology of kharif onion	1	1	Off campus						25
Cultivation of Fruit	Improved package and practices of papaya cultivation	1	1	Off campus						25
Production and management technology	Improved package and practices in aromatic plants	1	1	Off campus						25
Nursery raising	Nursery raising techniques of rabi vegetables	1	1	Off campus						25
Integrated nutrient management	INM in brinjal	1	1	On campus						25
IV. Plant Protection										
Integrated pest and disease management	Integrated pest and disease management in solanaceous vegetables	1	1	Off campus						25
Integrated pest management	Integrated pest management in kharif paddy	1	1	Off campus						25
Integrated pest management	Management of insect pests in cucurbits	1	1	Off campus						25
Integrated pest management	Management of insect pests of mango	1	1	Off campus						25
Integrated pest management	Integrated pest management practices for management of sucking pests in blackgram	1	1	Off campus						25
Integrated disease management	Disease management in banana	1	1	Off campus						25
Integrated pest management	Integrated pest management practices in cole crops	1	1	Off campus						25
Integrated pest management	Integrated pest management practices in okra	1	1	Off campus						25
Integrated pest management	Management of insect pests of onion	1	1	Off campus						25
Integrated pest and disease management	Seed treatment for insect pest and disease management	1	1	Off campus						25
Bio-control of pests and diseases	Use of neem and neem-based pesticides	1	1	Off campus						25
V. Livestock Production and Management										
Poultry Management	Diversified poultry farming	1	1	Off campus						25
Disease management	Important diseases of cattle and its prevention	1	1	Off campus						25

Thematic Area	Title	No of training	Duration (Days)	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total
Poultry Management	Important diseases of poultry and their prevention	1	1	Off campus						25
Disease and feed management	Feeding and health management in goats	1	1	Off campus						25
Poultry Management	Biosecurity measures for better poultry production	1	1	Off campus						25
Animal by-product processing	Alternate use of cow dung and urine for organic farming	1	1	Off campus						25
Feed Management	New trends of feeding in dairy animals	1	1	Off campus						25
Feed Management	Feeding of processed crop residues for better utilization by dairy animal	1	1	Off campus						25
Production of quality animal products	Clean milk production	1	1	Off campus						25
Poultry Management	Backyard poultry farming	1	1	Off campus						25
Dairy Management	Care & management of new born calves	1	1	Off campus						25
VI. Agricultural Extension										
Innovative Extension	ICT in farmers service- Center for post harvest technology	1	1	Off campus						25
Market dynamics	Mentoring Agri innovation & market excess for agri start ups	1	1	Off campus						25
Group dynamics	Strengthening the agri input eco system at grass root level	1	1	Off campus						25
VII. Home Science										
Household food security by kitchen gardening and nutrition gardening	Nutritional gardening for rural farm women	1	1	Off Campus						25
Value addition	Drying of Oyster Mushroom	1	1	Off Campus						25
Location specific drudgery reduction	Drudgery reduction by using fruit harvester in mango orchard	1	1	Off Campus						25
Storage loss minimization techniques	Storage loss minimization techniques	1	1	Off Campus						25
Value addition	Value added products from Tomato	1	1	Off Campus						25

Thematic Area	Title	No of training	Duration (Days)	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total
Location specific drudgery reduction	Drudgery reduction by using hanging type grain cleaner	1	1	Off Campus						25
Value addition	Value added product from Mango	1	1	Off Campus						25
Value addition	Value addition of cashew apple	1	1	Off campus						25
Value addition	Value addition from sweet potato	1	1	Off campus						25
Storage loss minimization techniques	Storage techniques of fruits & vegetables	1	1	On campus						25
Income generation activities for empowerment of rural Women	Paddy straw mushroom cultivation	1	1	On campus						25
VIII. Forestry										
Agroforestry	Preparation and Management of Horti-silvi Agroforestry model	1	1	Off Campus						25
Production technologies	Propagation techniques important forest trees	1	1	Off Campus						25
Nursery management	Management of aromatic plants in the nursery	1	1	Off Campus						25
Agroforestry	Agroforestry practices for soil conservation	1	1	Off Campus						25
Production technologies	Growing nitrogen fixing trees for energy plantation	1	1	Off Campus						25
Orchard management	Pruning and girdling techniques of forest trees	1	1	Off Campus						25
Production technologies	Plantation of forest tree for industry and their management	1	1	Off Campus						25
Value addition	Collection and processing of NTFPs	1	1	Off Campus						25
Production technologies	Management of bamboo harvesting in the forest	1	1	Off Campus						25
Orchard management	Silvicultural operations in fruit-based orchard	1	1	Off Campus						25
Agroforestry	Management of bund plantation of tree species	1	1	Off Campus						25
IX. Fisheries										
Production management	Integrated fish farming	1	1	Off Campus						25
Breeding and hatchery management	Carp breeding and hatchery management	1	1	Off Campus						25
Income generation	Carp fry and fingerling rearing	1	1	Off Campus						25

Thematic Area	Title	No of training	Duration (Days)	On / Off campus	No of participants					
					SC	ST	Others	M	F	Total
Production management	Species selection & management of stocking density in composite Carp culture system	1	1	Off Campus						25
Breeding and hatchery management	Hatchery Management & culture of F.W, Prawn	1	1	Off Campus						25
Production management	Fish pond preparation and its management	1	1	Off Campus						25
Water management	Water management practices for enhancement of fish yield	1	1	Off Campus						25
Production management	Use of stunted yearlings for enhancement of pond productivity	1	1	Off Campus						25
Production management	Jayanti rohu culture method with IMC	1	1	Off Campus						25
Disease Management	Fish disease diagnosis & Management	1	1	Off Campus						25
Breeding and hatchery management	Quality carp seed production through the use of FPR, carp hatchery	1	1	Off Campus						25

(b) Rural youth

Thematic Area	Title	No of courses	Duration (Days)	On/ Off campus	No of participants					
					SC	ST	Others	M	F	Total
I. Crop Production										
Integrated farming	Crop based Integrated farming system for enhancing farm productivity and livelihood security	1	2	On campus						15
II. Soil Health and Fertility Management										
Production of organic inputs	Bio fertilisers and their use in agriculture for better soil health and enhancing crop productivity	1	2	On campus						15

Thematic Area	Title	No of courses	Duration (Days)	On/ Off campus	No of participants					
					SC	ST	Others	M	F	Total
III. Horticulture										
Propagation techniques of fruit plants	Propagation techniques of fruit plants and nursery management	1	2	On campus						15
IV. Plant Protection										
Bio control of pest & diseases	Use of bioagents in IPM practice	1	2	On campus						15
Integrated pest and disease management	Integrated pest and disease management in ground nut	1	2	On campus						15
V. Livestock Production and Management										
Feed management	Hydroponic fodder cultivation for livestock feed management	1	2	On campus						15
Value addition	Value addition in milk	1	2	On campus						15
VI. Agricultural Extension										
Market dynamics	Formation and strengthening of Farmer Producer Companies (Phase-1)	1	1	On campus						15
Innovative Extension	New media for agriculture extension	1	1	On campus						15
Market dynamics	Value chain management for agricultural produce	1	1	On campus						15
VII. Home Sc.										
Income generation	Paddy straw mushroom cultivation in compost method	1	2	On campus						15
Income generation	Oyster mushroom cultivation by different substrate	1	2	On campus						15

Thematic Area	Title	No of courses	Duration (Days)	On/ Off campus	No of participants					
					SC	ST	Others	M	F	Total
VIII. Forestry										
M & A Plants cultivation	Identification of different aromatic plants and their management	1	2	On campus						15
Production management	Identification & cultivation practices of medicinal plants	1	2	On campus						15
IX. Fishery										
Fish Production management	Culture Techniques of medium carps with IMC	1	2	On Campus						15
Diversified aquaculture	Culture techniques of <i>Pangasius sutchi</i> with IMC	1	2	On Campus						15
Value addition	Preparation of value added fishery products & their marketing	1	2	On Campus						15

(c) Extension functionalities

Thematic Area	Title	No of courses	Duration (Days)	On/Off	No of participants					
					SC	ST	Others	M	F	Total
I. Crop Production										
Resource Conservation Technologies	Resource conservation technologies for sustainable crop production in rice based cropping system	1	1	On campus						15
Climate resilient agriculture	Agro-adaptations to climate change for improved rice production	1	1	On campus						15

Thematic Area	Title	No of courses	Duration (Days)	On/Off	No of participants					
					SC	ST	Others	M	F	Total
II. Horticulture										
Post-harvest technology Management	Post harvest technology and value addition in vegetable crops	1	1	On campus						15
Post-harvest technology management	Post harvest technology and value addition in fruit crops	1	1	On campus						15
III. Plant Protection										
Integrated pest management	Integrated pest management practices in different field crops	1	1	On campus						15
Integrated disease management	Integrated disease management practices in different vegetables	1	1	On campus						15
IV. Livestock Production and Management										
Management in farm animals	Management of metabolic disorders in dairy cattle	1	1	On campus						15
Management in farm animals	Prevention and control methods of bird flu	1	1	On campus						15
V. Agricultural Extension										
Innovative Extension	Extension strategies for management of organic certification	1	1	On campus						15
Market dynamics	Innovative strategy for management of Agribusiness	1	1	On campus						15
Market dynamics	Formation and strengthening of Farmer Producer Companies (Phase-2)	1	1	On campus						15

Thematic Area	Title	No of courses	Duration (Days)	On/Off	No of participants					
					SC	ST	Others	M	F	Total
Climate resilient agriculture	Extension strategies for promotion of climate smart livelihood opportunities	1	1	On campus						15
Market dynamics	Linking farmer to market- Opportunities & challenges	1	1	On campus						15
VI. Home Sc.										
Household food security	Nutritional assessment of farm families leads nutritional security	1	1	On campus						15
Drudgery reduction	Drudgery reduction of farm women through women friendly implements	1	1	On campus						15
VII. Forestry										
Productivity enhancement	Inter crop management of trees	1	1	On campus						15
Silviculture	Role of Agroforestry models in forest plantation	1	1	On campus						15
VIII. Fishery Sc.										
Production management	Innovative Aquaculture Practices	1	1	On campus						15
Production management	Maximization of fish production through Pen culture Technique	1	1	On campus						15

Sponsored Training

Thematic Area	Title	Courses	Duration (Days)	On/Off	No of participants					
					SC	ST	O	M	F	Total
Water Management	Efficient utilization of water	40	40	On						1000
Total		40	40							1000

(d) Vocational Training

Thematic Area	Title	Courses	Duration (days)	On/Off	No of participants/trainee days						
					SC	ST	O	M	F	Total	
Seed production	Seed production in Pigeon pea	1	5	On							10
Income generation	Rearing of honey bee	1	5	On							10
Livestock production and management	Commercial dairy farming	1	5	On							10
Value addition	Women empowerment through processing and value addition of fruits and vegetables	1	5	On							10
Production management	Identification of different bamboo species, their propagation and economics	1	5	On							10
Feed Management	Low cost fish feed preparation methods & its use	1	5	On							10
Total		5	25								50

3. Frontline Demonstration

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Paddy	Kharif	Demonstration of soil test based nutrient management in upland rice	Soil test based fertilizer recommendation + FYM @ 5 t/ha incubated by biofertilisers <i>i.e.</i> <i>Azosporillum</i> , <i>Azotobactor</i> & <i>PSB</i> @ 5 kg/ha each	5	1.0
Paddy	Kharif	Demonstration of medium duration HYV of rice (Hiranmayee)	135 days duration; Medium slender, 1000 grain wt: 17.4 gm, Average yield: 54.53 q/ha; Potential yield: 125.07 q/ha, Adaptability in rainfed & irrigated medium land	5	1.0

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Paddy	Kharif	Demonstration of weed management in transplanted medium land rice	Post-emergence application of bispyribac sodium 10% SC @ 200 ml/ha + almix (chlorimuron+ metsulfuron) 40 ml/ha at 25 DAT effectively controls grasses, some broad-leaved weeds and sedges	5	1.0
Blackgram	Rabi	Demonstration of weed management in blackgram	Pre-emergence application of pendimethalin 30% EC @ 2.5 litre/ha followed by imazethapyr 10% SL@ 750 ml/ha at 20 DAS effectively controls broad leaved weeds and some grasses in blackgram	5	1.0
Papaya	Kharif	Demonstration of high yielding papaya var. Pusa nanha	Cultivation of high yielding dwarf variety papaya Pusa nanha. Fruiting starts at a height of 40 cm, Fruits are medium to small size oval shaped with blood red to orange colour flesh with a potential yield of 75-100 t/ha.	5	1.0
Onion	Kharif	Demonstration of kharif onion var. Bhima Dark Red	Bhima Dark Red attains maturity in 95-100 DAT. Average yield is 20-22 t/ha. Average bulb weight is 70-80 gm.	5	1.0
Cucumber	Kharif	Demonstration of IDM practice for management of downy mildew in cucumber	Seed treatment with thiophanate methyl 70 WP @ 2 gm/kg seed and foliar application of chlorthalonil @ 2 ml/lit and cymoxanil 8 WP + mancozeb 64 WP @ 2gm/lit alternately at 12 days interval	5	2.0
Blackgram	Rabi	Demonstration of IPM practice for aphid management in blackgram	Prune curled leaves or new shoots and dispose them. Alternate spraying of imidachloprid @ 3ml / 10 lit of water and thiomethoxam @ 5gm/ 15 lit of water at 10 days interval	5	2.0

Crop	Season	Title	Technology	No. of demonstration	Area (ha)
Mango	Rabi	Demonstration of IPM practice for management of mango hopper	Alternate spraying of quinalphos @ 2ml/lit & thiomethoxam 25% WG @ 5gm/ 15 lit at 10 days interval	5	2.0
Okra	Rabi	Demonstration on management of leaf hopper in Okra	Soil application of neem cake 100 kg/acre and spraying of clothianidin @ 0.5 g/lit of water	5	2.0
Turmeric	Kharif	Demonstration of turmeric in mango plantation	Cultivation of turmeric as intercrop in mango plantation gives additional income	5	0.2
Bamboo	Kharif	Demonstration of Sundarkani bamboo through rooted culm cutting method	Rooted culm cuttings of bamboo are planted at a spacing of 6 x 6 m	5	0.4
Palmarosa	Kharif	Demonstration of palmarosa in forest plantation	Cultivation of aromatic grass Palmarosa in forest plantation for extraction of oil for scent which gives 40 - 80 kg oil and a profit of Rs.10,000 - 20,000 / ha/ year	5	0.4
Bamboo	Kharif	Demonstration of bamboo var. <i>Bambusa nutans</i>	<i>Bambusa nutans</i> is stronger and durable than the existing var. <i>Bambusa vulgaris</i> and planted at a spacing of 6x6 m	5	0.4
			Total	14	

Enterprise

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/ area (ha)
Dairy	Rabi	Demonstration on probiotic supplementation in crossbred cattle and its effect on milk yield	Concentrate feed + Probiotics feeding @ 20gm /day/cow	5	10
Poultry	Kharif	Demonstration on backyard poultry var. Pallishree	Rearing of Pallishree with proper vaccination and feeding for one month	10	200

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/ area (ha)
Goatery	Rabi	Demonstration on effect of supplementary concentrate feed on performance of does	Grazing + feeding 200 g of concentrate feed (22% CP, 72% TDN Composition of feed: Maize-40 kg, GNOC-26kg, Rice polish-10 kg, Wheat bran-22 kg, Premix-2 kg) per doe per day one month before kidding and continued up to one month after kidding	5	15
Quail farming	Kharif	Demonstration on broiler quail farming under semi-intensive system	Quail farming under intensive system	5	200
Value addition	Kharif	Demonstration of Mango leather in Solar Cabinet Dryer	Mango leather (1kg pulp + 2g citric acid + 0.5g sodium benzoate)	10	10
Drudgery reduction	Kharif	Drudgery Reduction for picking of mango from Orchard by Fruit Harvester	Mango Harvester	10	10
Household food security	Kharif & Rabi	Demonstration of nutritional garden for Improving Nutritional Security of farm family	Nutritional garden with Protein, Vitamin & iron rich vegetables and fruits	5	5
Value addition	Rabi	Value added tomato-based product for income generation	Tomato Soup Mix	10	10
Production management	Kharif	Demonstration on multiple stocking and multiple harvesting technology in carp culture	Single Stocking @ 6,500 fingerlings / ha & harvesting at every 3-4 months interval with seed substitution and adopting semi-intensive culture practice	5	1.0

Enterprise	Season	Title	Technology	No. of demonstration	No. of animal/area (ha)
Income generation	Kharif	Demonstration on fingerling raising in seasonal ponds	Stocking of 1,00,000 <i>Jayanti rohu</i> fry, feeding @ 8 % of biomass (1 st month) & 6% (rest 2 months), liming @80-100 kg/ac	5	1.0
Production management	Rabi	Demonstration on growth of <i>Puntius sarana</i> in composite fish culture system	Incorporation of <i>Puntius sarana</i> @ 1000 no./ha in the Major Carp system i.e. (Catla: Rohu: Mrigal) @ 10000 no. /ha and culture for 5-6 months	5	2.0
Income generation	Rabi	Demonstration on growth of egg-layers in ornamental fish culture	Culture of ornamental fishes (Egg layers) @ 130 numbers of Egg layers stocked with a male and female ratio of 2:1 in 300 sq. ft. area, breed 3 times/yr., use of feed mixture 23 kg/yr., use of Potassium permanganate @ 5mg/lit	5	5

4. Seed and planting material production

Seed		Planting material	
Crop	Area	Crop	Numbers
Paddy (MTU 1001) (FS)	1.2 ha	Cauliflower	5,000
		Cabbage	5,000
		Tomato	15,000
		Brinjal	10,000
		Chilli	10,000
		Onion	2,50,000
		Mango	2,000
		Papaya	2,000
		Drumstick	2,000
		Total	3,01,000

5. Extension Activities

Activities	No.	Participants
Field Day	8	320
Kisan Mela	1	200
Kisan Ghosthi	4	80
Exhibition	11	6000
Film Show	8	200
Method Demonstrations	12	300
Workshop	1	30
Group meetings	3	90
Lectures delivered as resource persons	14	700
Advisory Services	104	200
Scientific visit to farmers field	122	200
Farmers visit to KVK	1	200
Diagnostic visits	28	280
Exposure visits	4	80
Ex-trainees Sammelan	2	40
Soil health Camp	1	30
Animal Health Camp	1	50
Soil test campaigns	1	30
Farm Science Club Conveners meet	3	100
Self Help Group Conveners meetings	5	100
Mahila Mandals Conveners meetings	1	30
Celebration of important days (specify)	7	700
	342	9960

Revolving Fund

Open balance as on 1 st April 2018 (Rs. in lakh)	Amount to be invested (Rs.)	Return (Rs.)
0.05	2,00,000	3,50,000

6. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)

7. On-Farm Trials to be conducted (10 nos)

Thematic area	Title	Treatments	No. of farmers
Varietal evaluation	Assessment of BPH tolerant of rice varieties	<p>FP: Swarna (140-145 days duration; plant height: 95-100 cm; Grain: medium bold; average yield:50 q/ha; Suitable for medium land; good tillering habit; Resistant to BLB; Susceptible to BPH, sheath rot)</p> <p>TO₁: Pratikshya (142 days duration; plant height: 90-95 cm; Grain: long slender; Average yield: 50 q/ha; suitable for medium to medium low land, resistant to BPH, sheath rot)</p> <p>TO₂: Hasanta (146 days duration; plant height: 116 cm; Grain: short bold; white kernel; Average yield: 55 q/ha; Suitable for shallow low land; Resistant to BPH, WBPH, leaf blast, sheath rot)</p>	10
Crop intensification	Assessment of pulses in rainfed Rice-fallow situation	<p>FP: Rice (MTU 1001) - Fallow</p> <p>TO₁: Rice (MTU 1001) –Blackgram (PU 31)</p> <p>TO₂: Rice (MTU 1001) – Greengram (IPM 02-14)</p>	10
IPM	Assessment of Integrated pest management of WBPH and BPH in rice	<p>FP: Indiscriminate spraying of Chloropyriphos/ imidachlorpid</p> <p>TO₁: Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 60 gm /acre and neem-based pesticide 3000 ppm @ 600 ml/acre @ 10 days interval</p> <p>TO₂: TO₁ with Spraying of pymetrozene 50 WG @ 120 gm/acre</p>	10
IDM	Assessment of IDM practice for management of Sigatoka disease in banana	<p>FP: No sucker treatment; Spraying of Carbendazim, (Carbendazim + Mancozeb) @ 1 kg/ha at advanced stage of infection</p> <p>TO₁: Alternate spraying of Bordeaux mixture 1 % and (Propiconazole 25 EC + Carbendazim 50 WP) @ 500 gm/ha at 15 days interval and additional dose of 25 % potash (100:100:375)</p> <p>TO₂: Alternate spraying of Bordeaux mixture 1 % and (Tebuconazole 50 WG + Trifloxystrobi 25 WG) @ 200 gm/ha at 15 days interval and additional dose of 25 % potash</p>	10

Thematic area	Title	Treatments	No. of farmers
Varietal evaluation	Assessment of triple disease resistant tomato hybrids	FP: Use of HYVs Laxmi TO₁: Tomato var. Arka Samrat (Yield 80t/ha in 140 days, tolerant to fruit drop) TO₂: Tomato var. Arka Rakshak (Yield 90t/ha in 140 days, Resistant to Tomato leaf curl virus, bacterial wilt and early blight)	10
Poultry production	Assessment of improved backyard poultry breed	FP: Local breed TO₁: Aseel (Body weight 20 wk-1220 gm, Egg production-167/annum) TO₂: Kadaknath (Body weight 20 wk-1170gm, Egg production-190 /annum)	5
Feed management	Assessment on hydroponic fodder for feeding management in dairy cattle	FP: Grazing + concentrate feeding TO₁: 10 kg Hydroponic fodder (Wheat) replacing 1 kg concentrate TO₂: 10 kg Hydroponic fodder (Maize) replacing 1 kg concentrate	2
ICT in agriculture development	Assessment of Kisan Mobile Advisory (KMA) services for dissemination of agricultural information in Angul district, Odisha	N/A	60
Value addition	Assessment of value added products from cashew apple	FP: Ripe cashew apple TO₁: Cashew apple Jam (Storage period -180 days, Colour-Creamy white, De-tanned ripe cashew apple pulp -1 kg, Sugar -1 kg, Citric acid 2.5g) TO₂: Cashew apple RTS (Storage period -60 days, Colour –Dusky white, for 10 lt = Fruit Juice 2.5lt (Tanin extracted by Polyvinyl pyrolidone (PVP) at 1.4g/l) + water 7.5 lt, Sugar1.5 kg + Citric Acid 15 g + Sodium Benzoate 1.2g in desired packaging)	10
Mushroom Production	Assessment of Paddy straw mushroom cultivation in compost method	FP: Paddy straw mushroom in Bed Method TO₁: Paddy straw mushroom in threshed straw in Bed Method TO₂: Mushroom in threshed straw by Compost Method	10
Agro forestry management	Assessment of pineapple in horti-silvi agroforestry system	FP: Un-utilization of interspaces TO₁: Papaya (Papaya are intercropped in the 2-3 year old forest plantation) TO₂: Pineapple (Pineapple are intercropped in the interspaces of forest plantation)	10

Thematic area	Title	Treatments	No. of farmers
Production management	Assessment of manuring in teak species	FP: No fertilizer application in trees TO₁: FYM (Apply 100 g of compost fertiliser in pit at the time of planting and thereafter in split doses or as per the fertility status of soil) TO₂: FYM + fertilizer (Apply 100 g of compost fertiliser in pit at the time of planting and thereafter in split doses or as per the fertility status of soil. Two doses of fertiliser (1 st dose at planting time <i>i.e.</i> on set of monsoons and 2 nd about to withdraw monsoon) @ 50 gm per plant of NPK (15:15:15) or Navaratna. In the second dose to add Urea and potash (MOP) total @ 50 gm (preferably same proportion) per year)	10
Production Management	Assessment of stocking density of Amur Carp in Composite fish culture system	FP: Mrigal as bottom feeder along with Catla and rohu fish with stocking rate up to 30% or more TO₁: Use of Amur Carp fingerlings @ 1000 no./ha with (Catla 30: Rohu 40: Mrigal 20: A.C 10) and culture for 5-6 months at a stocking density of 10,000 nos/ha TO₂: Use of Amur Carp fingerlings @ 1500 no./ha with (Catla 30: Rohu 40: Mrigal 15: A.C 15) @ 10,000 no. /ha and culture for 5-6 months	3
Disease Management	Assessment of “Immunoboost-C” for improving health status of brood fish	FP: Application of Lime @ 80-100 kg/ac. pond TO₁: Use of Potassium Permanganate @ 5 mg/ltr. water TO₂: Application of Immunoboost-C @ 0.2 ml/kg. B. Wt. injected to brood fish before 15 days of breeding	3

8. List of Projects to be implemented

Name of the project	Fund expected (Rs.)
IRRI Trial	30,000
Seed Pulse Hub	30,000
Commercial poultry farming	1,00,000

9. No. of success stories to be developed: **Ten**

10. Scientific Advisory Committee

Date of SAC meeting held during 2017-18	Proposed date
29.07.2017	19.9.2018

11. Soil and water testing

Sample	No. of samples to be analysed
Soil	300
Plant	
Water	

12. Staff position

Sanctioned	In position	If vacant, since when
Programme Coordinator / Sr. Scientist	Yes	
SMS (Agronomy) / T-7/8	Yes	
SMS (P.P.) / T-7/8	Yes	
SMS (A.H. & V.S.) / T-7/8	Yes	
SMS (Forestry) / T-7/8	Yes	
SMS (Agril. Engg.)/ T-6		13.09.2017
SMS (Home Sc.) / T-6	Yes	
Programme Assistant (Computer)/ T-5	Yes	
Programme Assistant/ T-5	Yes	Fishery discipline
Farm Manager/T-5	Yes	On deputation at DEE
Assistant		1.10.2009
Stenographer, Grade – III	Yes	
Driver/ T-2	Yes	
Driver / T-2	Yes	
Skilled Supporting Staff	Yes	
Skilled Supporting Staff (Cook)	Yes	
Total	14	

13. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Yes			Repair required
Trainees' hostel	Yes			Repair required
Staff quarter	Yes			Three more + S.S.H quarters required
i) IFS *	Yes			
ii) Goatery				

* Mushroom, Goatery, Poultry, Vermicompost, Nursery pond (Low cost)

14. Fund requirement and expenditure (Rs.)

Total Fund Requirement:

	Expenditure (last year) (Rs. in lakh)	Expected requirement (Rs. in lakh)
Recurring		
i. Pay & allowance	74.14	101.5
ii. Contingency	12.5	15.0
iii. TA	1.3	2.0
iv. HRD	-	-
Non-recurring (specify)		
i. Works (Farm road with culvert)	2.0	20.0
iv. Furniture & Equipment	2.48	2.0
v. Vehicle and tractor	-	-
TOTAL		140.5

Sr. Scientist & Head