ACTION PLAN
2025-26

ICAR

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KRISHI VIGYAN KENDRA

BARGARH

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Action plan of KVK Bargarh (2025-26)

Categories	Number / Area (ha)	No. of participants
Training	110 (FW-80, RY-12, IS-8, VT-10)	2500
FLD	16	160
OFT	8	56
Seed Production (q)	300	230
Planting material production	1.5 Lakh seedlings	1200

OFT(PP)

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
Low yield of okra due to severe white fly Infestation	Assessment of integrated management of sucking pest in okra (23OPP13)			
	FP-Spraying of Imidachloprid 1.8SL@0.5ml/lit twice at 45&60 DAS			
	TO.1- Seed Treatment with Imidacloprid 600 FS @ 5 ml/ Kg of seed, Installation of Yellow Sticky Trap @ 50 / ha and spraying Afidopyropen50 G/L DC @1000ml/ha and Azadiractin300ppm@2.5l/ha at 10 -15 days interval starting from 30DAS	Kharif 2025, Rainfed upland	Disease index, yield/ha	AAU,Anand ,2022
	TO-2- Seed Treatment with Imidacloprid 600 FS @ 5 ml/ Kg of seed, Installation of Yellow Sticky Trap @ 50 / ha and alternate spraying of Tolfenpyrad 15% EC @1000ml/ha and Azadiractin300ppm@2.5l/ha at 10 -15 days interval starting from 30DAS.			RVSKVV, Gwalior,2021
Irrigated medium land & low yield of Bitter gourd due to severe Fruit fly Infestation	Assessment of management practices against fruit fly in Bitter gourd - 24OPP10 (R)			
	FP-Spraying of Chlorocyper @2ml/lit twice at 45&60 DAS			
	TO_1: Soil application of Chlorpyriphos 1.5% dust @ 25kg/ha at 30 DAS, application of poison baits (Jaggery 100gm + Cartap hydrochloride 2g + water 1.0L) at 30 DAS, Cuelure @ 20 nos. /ha. at 30 DAS, Periodical removal of damaged fruits Source : RRTTS, Ranital, OUAT, 2019	RABI 2025 Irrigated upland	Disease index, yield/ha	RRTTS, Ranital, OUAT, 2019
	TO_2: Placement of Food bait @ 20 nos./ha (mixture of 1kg cucumber pulp + 50g jaggery, 100 ml cow urine, 0.5L of water soaked overnight & diluted to 05L + 10 ml Malathion) at 20 DAS, installation of Cuelure @ 25 nos. /ha and spraying of Spinosad 45% SC @ 200 ml/ha twice at 45 & 60 DAS Source : RRTTS, BBSR, OUAT, 2022-23			RRTTS, BBSR, OUAT, 2022-23

OFT (SoilSc)

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
Low yield due to improper nutrient management	Refinement of application of liming material on yield of Greengram under acid soil. (24OSS08R)	Rabi (2025-26),Rainfed meium land	No. of pods/plant, No of grains/Pod, 1000 grain weight (g), Yield, Economics	*OUAT 2018*
	Farmers' practice :Application of recommended dose of fertilizer only@NPK 10:30:0Kg/ha+ Seed treatment with Rhizobium@20gm/ Kg seed			
	TO_1:Application of recommended dose of fertilizer only@NPK 10:30:0Kg/ha+ Seed treatment with Rhizobium@20gm/ Kg seed +Lime 0.2LR			
	TO2 :FP+Seed Treatment with lime @4kg/25 kg seed ZnSO4spray at pre-flowering and pod initiation			
	TO3-FP+PMS@800Kg/ha			

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
Poor plant growth, less tiller, small ear heads and low grain yield due to improper nutrient management practices	Assessment of NPK Dose for Medium land Rice (Code)	Kharif (2025 Rainfed upland	Soil available N,P,K, SOC, yield & economics	*OUAT2019-20(LTFE)& RRTTS , BBSR 2024*
	Farmers' practice :Application of FYM @ 5 t/ha with average fertilizer @ 80-40-40 kg N-P-K/ha			
	TO1 :Application of FYM @ 5 t/ha with average fertilizer @ 80-40-60 kg N-P-K/ha			
	TO2 : Application of FYM @ 5 t/ha with average fertilizer @ 100-50-50 kg N-P-K/ha			

Agril. Engineering

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
High cost of Labour and Labour Scarcity at the time of weeding	Assessment of Wet Land Power Weeders in Paddy (23OAE07K*)	Kharif,Irrigated medium land	Yield (q/ha), growth parameters,	AICRP on ESA, CAET, OUAT, 2011 & 2013
	FP- Manual WEEDING			
	TO1-Weeding by Mandua weeder			
	TO2-Weeding by Wet Land Power Weeders			

Poor Yield of Mustard due to improper irrigation	Assesment of growth and yield of mustard to irrigation scheduling (23OAE04R*)	Rabi,irrigated medium land	Yield (q/ha), growth parameters,	CSAUAT, 2022
	FP- No Irrigation			
	TO1- One Irrigation at Rosette Stage			
	TO2- One Irrigation at Pod formation			
	TO 3- Two Irrigations (1^{st} at Rosette + 2^{nd} at Pod Formation)			

HOME SCIENCE

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
Less market value of chilli during peak harvesting period.	Assessment of suitability of different chilli varieties for preparation of pickles. (23OHS10R*)	Kharif, 2025-26	Yield (q/ha.), sensory evaluation (0-9 point hedonic scale), B:C	ICAR -RCER Research centre, Ranchi, 2020 ICAR-IIHR, 2023
	Farmers' practice :Preparation of pickles by using chilli var. Krishna			
	TO1: Preparation of pickles by using chilli var. swarna Tejaswini			
	TO2 :Preparation of pickles by using chilli var. Arka Nihira			

Problem Identified	Technologies Assessed (Give in detail)	Season /Farming situation	Critical parameter	Source
Less income from millet due to poor knowledge & skill on value added products	Assessment on value added products of millets (Millet Bar) for income generation (Code)	Hom estead	Shelf life(Days), sensory evaluation (0-9 point hedonic scale, nutritional value, Gross cost of intervention (Rs.), Net Profit (Rs.) , B:C	TNAU-2018-19
	FP-Selling of raw millets in the market			
	TO1-Millet bar Preparation of Millet bar from roasted finger millet-20g, roasted pearl millet -20g, puffed sorghum-30g, roasted bengalgram-20g, roasted groundnut- 10g with jaggery -40g. (source- Community Sc. and research Institute, TNAU ,2018-19)			
	TO2-Carotene enriched millet bar -Preparation of Millet bar from roasted finger millet- 20g, roasted pearl millet -20g, puffed sorghum-30g, roasted bengalgram-20g, roasted groundnut- 10g with jaggery -40g and β carotene enriched mango-40g (Source-Community Sc. and research Institute, TNAU,2018-19)			

Problem Identified	Technologies Assessed (Give in detail)	Season	Critical parameter	Source
Low yield of okra due to severe white fly Infestation New	**Assessment of suitable IPM module for YVMV in Okra**			
	FP-Spraying of Imidachloprid 1.8SL@0.5ml/lit twice at 45&60 DAS			
	TO-1 Seed treatment with Imidacloprid 600 FS @ 5ml/kg of seed, Installation of Yellow Sticky trap @50 nos./ha, Alternate spraying of Tolfenpyrad 15% EC @ 1000 ml/ha and Neem oil @ 1 l/ha starting from 30 DAS	Kharif 2025	Disease index, yield/ha	RVSKVV, Gwalior, 2021
	TO-2 Seed treatment with Imidacloprid 600 FS @ 5ml/kg of seed, Installation of Yellow Sticky trap @50/ha at 25 DAS, alternate spraying of Afidopyropen 5% DC @ 600 ml/ha and Neem oil 3000 PPM @ 1 l/ha starting from 30 DAS			GAU, Anand, 2022

Problem Identified	Technologies Assessed (Give in detail)	Season	Critical parameter	Source
Irrigated medium land & low yield of Bitter gourd due to severe Fruit fly Infestation (REPEAT)	**Assessment of management practices against fruit fly in Bitter gourd**			
	FP-Spraying of Chlorocyper @2ml/lit twice at 45&60 DAS			
	TO_1: Soil application of Chlorpyriphos 1.5% dust @ 25kg/ha at 30 DAS, application of poison baits (Jaggery 100gm + Cartap hydrochloride 2g + water 1.0L) at 30 DAS, Cuelure @ 20 nos. /ha. at 30 DAS, Periodical removal of damaged fruits Source : RRTTS, Ranital, OUAT, 2019	RABI 2025	Disease index, yield/ha	RRTTS, Ranital, OUAT, 2019
	TO_2: Placement of Food bait @ 20 nos./ha (mixture of 1kg cucumber pulp + 50g jaggery, 100 ml cow urine, 0.5L of water soaked overnight & diluted to 05L + 10 ml Malathion) at 20 DAS, installation of Cuelure @ 25 nos. /ha and spraying of Spinosad 45% SC @ 200 ml/ha twice at 45 & 60 DAS Source : RRTTS, BBSR, OUAT, 2022-23			RRTTS, BBSR, OUAT, 2022-23

KVK,Bargarh	Assessment of suitable IPM module for YVMV in Okra			
Season & Year	Kharif, 2025 (NEW)		No. of Trials & village	7,M.Gandapalli&Gopalpur
Crop	Okra	Farming Situation	Rainfed upland	
Problem Diagnosed	Yield loss due to High incidence of White fly causing wide spread of YVMV Disease		Spread & Intensity of Problem	310hactres,medium
FP	Spraying of Imidachloprid 1.8SL@0.5ml/lit twice at 45&60 DAS			Source of technology
TO1	Seed treatment with Imidacloprid 600 FS @ 5ml/kg of seed, Installation of Yellow Sticky trap @50 nos./ha, Alternate spraying of Tolfenpyrad 15% EC @ 1000 ml/ha and Neem oil @ 1 l/ha starting from 30 DAS			Source : RVSKVV, Gwalior, 2021
TO2	Seed treatment with Imidacloprid 600 FS @ 5ml/kg of seed, Installation of Yellow Sticky trap @50/ha at 25 DAS, alternate spraying of Afidopyropen 5% DC @ 600 ml/ha and Neem oil 3000 PPM @ 1 l/ha starting from 30 DAS			Source : GAU, Anand, 2022
Characteristics of Technology	TO1-No Phytotoxicity Problem T02-Tolfenpyrad 15% EC is Broard spectrum Contact Pyrazole class insecticide that protects plants from sap feeding pests ,			
Observation Parameters	Yield /ha,% of leaf infected,		Performance Indicator	Net profit,B:C
Associated Scientist(s)	N.C.Barik &Dr R.D Behera			

Problems to be addressed based on production constraints(NEW)				
Crop/ Enterprise	Problems to be addressed	Title of the OFT	Treatment details with FP with source of tech.	Observation parameters
Green gram	Low yield due to soil acidity & poor nodulation	Assessment of nutrient management in seed yield of Green gram	Farmers' practice :Application of recommended dose of fertilizer only TO1: Seed inoculation with Rhizobium & treated with ammonium molybdate @10g/25 kg seed + STBFR + PMS @ 800 kg/ha + FYM @ 5 t/ha (*AINP on soil Biodiversity -Biofertilizers 2012)* TO2 :Seed inoculation with Rhizobium & treated with ammonium molybdate @10g/25 kg seed + STBFR + followed by rhizospheric application of 4 kg P SM /ha mixed with lime 0.2 L R and FYM 2t/ha *(AINP on soil Biodiversity -Biofertilizers 2016-17)*	No. of pods/plant, No of grains/Pod, 1000 grain weight (g), Yield, Economics ,nutrient status, B:C ratio

Problems to be addressed based on production constraints(NEW)				
Crop/ Enterprise	Problems to be addressed	Title of the OFT	Treatment details with FP with source of tech.	Observation parameters
Rice	Lower yield of rice than the potential yield	Assessment of validation of NPK dose in medium land	Farmers' practice: Existing recommendation of N-P_2O_5 -K_2O @ 80 :40:40 kg/ha TO1: Application of chemical fertilizer N-P_2O_5 -K_2O @ 80 :40:60 kg/ha + 5 t FYM/ha (AICRP on LTFE,OUAT,2019-20) TO2 : Application of chemical fertilizer N-P_2O_5 -K_2O @ 100 :50:50 kg/ha + 5 t FYM/ha (RRTTS, BBSR, 2024)	Initial & after harvest soil test value, yield, economics

Problem Identified	Technologies Assessed (Give in detail)	Season	Critical parameter	Source
High cost of Labour and Labour Scarcity at the time of weeding	Assessment of Wet Land Power Weeders in Paddy (NEW)	Kharif	Yield (q/ha), growth parameters,	AICRP on ESA, CAET, OUAT, 2011 & 2013
	FP- Manual WEEDING			
	TO1-Weeding by Mandua weeder			
	TO2-Weeding by Wet Land Power Weeders			

Problem Identified	Technologies Assessed (Give in detail)	Season	Critical parameter	Source
Poor Yield of Mustard due to improper irrigation	**Assesment of growth and yield of mustard to irrigation scheduling(NEW)**	Rabi	Yield (q/ha), growth parameters,	CSAUAT, 2022
	FP- No Irrigation			
	TO1- One Irrigation at Rosette Stage			
	TO2- One Irrigation at Pod formation			
	TO 3- Two Irrigations (1st at Rosette + 2nd at Pod Formation)			

OFT (NEW)	Assessment of Wet Land Power Weeders in Paddy			
Season & Year	Kharif 2025	No. of Trials & village	7	
Crop	Paddy	Farming Situation	Rainfed medium land	
Problem Diagnosed	Labour intensive, Drudgery prone and time consuming operation in manual weeding		Spread & Intensity of Problem	10000ha, 65%
FP	Manual weeding	Source of technology		
TO_1	Weeding done by Mandwa Weeder	AICRP on ESA, CAET, OUAT, 2011 & 2013		
TO_2	Weeding done by Wet Land Power Weeder	AICRP on ESA, CAET, OUAT, 2011 & 2013		
Characteristics of Technology	Using mechanical weeders will reduce the cost of weeding			
Observation Parameters	Field capacity (ha/h), Weeding Index(%), Labour utilization (man days/ha), Plant damage(%)	Performance Indicator	Cost of cultivation (Rs/ha), Net return (Rs/ha), BC ratio	
Associated Scientist(s)	SMS (Ag. Engg)			

OFT (NEW)	Assessment of growth and yield of mustard to irrigation scheduling			
Season & Year	Rabi 2025		No. of Trials & village	7
Crop	Mustard	Farming Situation	Irrigated medium land	
Problem Diagnosed	Poor Yield of Mustard due to improper irrigation		Spread & Intensity of Problem	3200 Ha, medium
FP	No Irrigation			Source of technology
TO_1	One Irrigation at Rosette Stage			CSAUAT, 2022
TO_2	One Irrigation at Pod formation			CSAUAT, 2022
TO_3	Two Irrigations (1st at Rosette + 2nd at Pod Formation)			CSAUAT, 2022
Characteristics of Technology	Low water requirement, water availability limited			
Observation Parameters	Yield (q/ha), growth parameters(plant height)		Performance Indicator	Cost of cultivation (Rs/ha), Net return (Rs/ha), BC ratio
Associated Scientist(s)	Sanghamitra Biswal SMS (Ag. Engg)			

Crop /Enterprise	Problems to be addressed	Title of the OFT	Treatment details with FP with source of tech.	Observation parameters
Chilli	Distress sale and spoilage due to perishability nature of chilli during peak harvesting period.	Assessment on suitability of different chilli varieties for preparation of pickles.(NEW)	FP- Preparation of pickles by using chilli var. Krishna TO1-Preparation of pickles by using chilli var. swarna Tejaswini (Source-ICAR -RCER Research centre, Ranchi,2020) TO2-Preparation of pickles by using chilli var. Arka Nihira (Source- ICAR-IIHR, 2023)	Yield (q/ha.), No, of fruit/plant, sensory evaluation (0-9 point hedonic scale) Gross cost of intervention (Rs.), Net Profit (Rs.) , B:C
Finger millet	Less income from millet due to poor knowledge & skill on value added products	Assessment on value added products of millets (Millet Bar) for income generation (NEW)	FP-Selling of raw millets in the market TO1-Millet bar Preparation of Millet bar from roasted finger millet-20g, roasted pearl millet -20g, puffed sorghum-30g, roasted bengalgram-20g, roasted groundnut- 10g with jaggery -40g. (source- Community Sc. and research Institute, TNAU,2018-19) TO2-Carotene enriched millet bar - Preparation of Millet bar from roasted finger millet- 20g, roasted pearl millet -20g, puffed sorghum-30g, roasted bengalgram-20g, roasted groundnut- 10g with jaggery -40g and β carotene enriched mango-40g (Source-Community Sc. and research Institute, TNAU,2018-19)	Shelf life(Days),sensory evaluation (0-9 point hedonic scale, nutritional value, Gross cost of intervention (Rs.), Net Profit (Rs.) , B:C

Action plan of KVK Bargarh (2025-26) – FLD
Discipline _ PLANT PROTECTION

SEASON	Title	Technology to be demonstrated (RP)	Farmers' practice (FP)	Remark
RABI (Repeat)	Demonstration of Chemical methods of control for Management of YMV disease in Greengram	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/l at 30 DAS and need based spraying of Diafenthiuron 50 WP @ 1 gm /l at 45 DAS Code-24FPP12(R)	Spraying of Imidachloprid 17.8sl @0.5ml/lit	OUAT 2020-21
Rabi (Repeat)	Demonstration on Management of Stem borer in Rabi Rice ,	Spraying with the combination of Chlorantraniliprole 20% SC @ 0.3 ml/l + Cartap hydrochloride 50% SP @ 2 g/l + Triflumezopryrim 10% SC @ 0.48 ml/l at 25, 50 and 65 DAT Code – 24FPP06(R)	Spraying of Fipronil 5ec @2ml/lit after appearance of dead heart	Source : NRRI, 2021
Rabi (Repeat)	Demonstration on IPM strategies against tobacco caterpillar in Groundnut,	Installation of Pheromone trap for monitoring @ 5 nos./ha + Fixation of bird perches for avian predation + sunflower as barrier trap crop + placement of poison baits (10kg rice bran + 1kg jaggery + 250 ml Lambda cyahalothrin) + need based foliar application++ of Indoxacarb + Novaluron @ 625ml/ ha in the evening hours	Spraying of Profenofos40% + Cypermethrin4%@ *2ml/l* Code - 24FPP13(R	Source : RRTTS, Ranital, 2020
Rabi (NEW)	Demonstration of Integrated Pest Management practices of Tobacco Caterpillar (*Spodoptera litura)* in Mustard	Pheromone Trap for monitoring @5/ha +Bird perches for avian predation + Poison bait (10 Kg Rice bran+1 Kg Jaggery+250 ml Lambda Cyhalothrin)+Need based foliar application of (Indoxacarb+Novaluran)@750 ml/ha in the evening hour Code-25FPP01(R)	Spraying of Chlorocyper 50+ Cypermethrin 5%@ 2ml/lit of water	OUAT, RRTTS, Ranital, 2021
Rabi (NEW)	Demonstration of IDM Practices against Early Blight Disease in tomato Code-25FPP02(K/R)	Three foliar spraying with (Metiram 55 % + Pyraclostrobin 5 %) WG @ 3g/l of water at 15 days interval starting from initiation of the disease	Spraying of Carbendazim12+ Mancozeb63% @2gm/lit of water twice after appearance of Disease	RRTTS, Chiplima 2024
Kharif (OFT-FLD)	Demonstration of Biopesticides for the management of RootKnot Nematode (*Meloidogyne incognita) affecting Okra*	Seed treatment with *Paecilomyces lilacinum*@ 5 ml/kg + application of vermicompost @ 2.5 ton/ha enriched with *Paecilomyces lilacinum*(@ 10 gm/kg) Code-25FPP03(K/R)	Seed treatment with T.viride @5gm/kg seed	AICRP on Nemato des, BBSR,2018

KVK,Bargarh	Demonstration of Integrated Pest Management practices of Tobacco Caterpillar(*Spodoptera litura)* in Mustard			
Season & Year	Rabi ,2025-26		No. of Trials & village	10,Bara&B.Darllipalli
Crop	Mustard	Farming Situation	RainfedMedium land	
Problem Diagnosed	Yield loss due to High incidence of *Spodoptera litura*		Spread & Intensity of Problem	100hactres,medium
FP	Spraying of Chlorocyper50+Cypermethrin 5%@2ml/lit of water			Source of technology
RP	Pheromone Trap for monitoring @5/ha +Bird perches for avian predation + Poison bait (10 Kg Rice bran+1 Kg Jaggery+250 ml Lambda Cyhalothrin)+Need based foliar application of (Indoxacarb+Novaluran)@750 ml/ha in the evening hour			OUAT, RRTTS, Ranital,2021
Characteristics of Technology	LOW COST &environment friendly.			
Observation Parameters	Yield /ha,% of leaf infected,		Performance Indicator	Net profit,B:C
Associated Scientist(s)	N.C.Barik &Dr R.D Behera			

KVK,Bargarh	Demonstration of IDM Practices against Early Blight Disease in tomato			
Season & Year	Rabi 2025-26		No. of Trials & village	10, Lebidi, Cheptibahal
Crop	Tomato	Farming Situation	Irrigated UPLAND	
Problem Diagnosed	Poor yield due to incidence of Early Blight Diseasediseases		Spread & Intensity of Problem	200ha,Medium
FP	Spraying of Carbendazim12+Mancozeb63%@2gm/lit of water twice after appearance of Disease			Source of technology
RP	Three foliar spraying with (Metiram 55 % + Pyraclostrobin 5 %) WG @ 3g/l of water at 15 days interval starting from initiation of the disease			OUAT ,RRTTS,Chipilima2024
Characteristics	Need based application of chemical in IDM Practices			
Observation Parameters	Wilt damage %, leafcurl %		Performance Indicator	Yield,net profit,B:C
Associated Scientist(s)	N.C.Barik &Dr R.D Behera			

KVK,Bargarh	Demonstration of Biopesticides for the management of RootKnot Nematode (*Meloidogyne incognita) affecting Okra*			
Season & Year	Rabi2025-26		No. of Trials & village	10, Sarkanda
Crop	Okra	Farming Situation	Irrigated UPLAND	
Problem Diagnosed	Poor yield due to incidence of RootKnot Nematode(*Meloidogyne incognita) affecting Okra*		Spread & Intensity of Problem	50ha,Medium
FP	Seed treatment with T.viride@5gm/kg seed			Source of technology
RP	Seed treatment with *Paecilomyces lilacinum*@ 5 ml/kg + application of vermicompost @ 2.5 ton/ha enriched with *Paecilomyces lilacinum*(@ 10 gm/kg)			AICRP on Nematodes, BBSR,2018
Characteristics	Cost effective,Envioronment friendly.			
Observation Parameters	Root knot index,affected plants %		Performance Indicator	Yield,net profit,B:C
Associated Scientist(s)	N.C.Barik &Dr R.D Behera			

KVK,Bargarh	Demonstration of Integrated Disease Management practices against PANAMA wilt of Banana			
Season & Year	Kharif 2025-26		No. of Trials & village	10, Nuagada
Crop	Banana	Farming Situation	Irrigated UPLAND	
Problem Diagnosed	Poor yield due to incidence of multiple diseases		Spread & Intensity of Problem	50ha,Medium
FP	Spraying of Carbendazim12+Mancozeb63%@2gm/lit of water twice after appearance of Disease			Source of technology
RP	Application of Neem cake @250g/plant+ Application of lime(CaCO3) @ 10 g/plant + Sucker dipping in Carbendazim (0.2%) for 30 minutes+ Carbendazim drenching (0.2%) @ 3.5 L/plant (2nd, 4thand 6thMAP)+ Carbendazim injection @ 3ml of 2% solution (3rd, 5th, 7thMAP)			OUAT 2018
Characteristics	Need based application of chemical in IDM Practices			
Observation Parameters	Bunch weight,affected leaf %		Performance Indicator	Yield,net profit,B:C
Associated Scientist(s)	N.C.Barik &Dr R.D Behera			

New FLD

Crop/ Enterprise	FLD title	Demo details with FP	No. of demon stration	No./ area, ha
Potato	Demonstration on Integrated Nutrient Management in Potato(NEW)	**FP:** Application of FYM-5t/ha, N-P_2O_5 -K_2O- 80:60:40 kg/ha, no micronutrient application **RP :**Application of FYM – 20t/ha+100 % NPK(STBF)+Foliar application of Boron (0.1 %) at 40,50 & 60 days interval after planting of potato (Code-24FAG44R)	10	2 ha

Crop/ Enterprise	FLD title	Demo details with FP	No. of demon stration	No./ area, ha
Rapeseed	Demonstration on application of bio consortia on rapeseed	**FP:** Application of 60:30:30 N-P_2O_5 -K_2O/ha **RP :** Application of bioconsortia (Azotobactor, Azospirillium, & PSB) at 1:1:1 ratio @ 4 kg/ha along with 50-25-25 kg N-P-K/ha (Code-24FAG28R)	10	2 ha

Crop/ Enterprise	FLD title	Demo details with FP	No. of demon stration	No./ area, ha
Ground nut	Demonstration on Sulphur & Lime application in *Kharif* Groundnut	**FP-**Application of recommended dose of fertilizers only (20:40:40) **RP-**Application of STD (25 : 40: 50) along with Lime (0.2 LR) and 40 kg sulphur (Code-24FAG22K)	10	2 ha

Crop/ Enterprise	FLD title	Demo details with FP	No. of demon stration	No./ area, ha
Sesamum	Demonstration on INM in sesamum	**FP-** Application of recommended dose of fertilizers only (40:20:20) **RP-** STD (50:20:25) + FYM @ 5 t/ha + S-21 kg/ha + Znso4-25kg/ha + B-1kg/ha Azotobactor seed inoculation (Code-24FAG32K)	10	2 ha

SEASON	Title	Technology to be demonstrated (RP)	Farmers' practice (FP)	Remark
KHARIF (NEW)	Demonstration of Agricultural Drone Sprayer for control of Stem borer in Paddy	Spraying is done by Agricultural Drone	Spraying is done manually by knapsack sprayer	FIM,AICRP OUAT,2024
KHARIF (OFT-FLD)	Demonstration of in-situ soil moisture conservation method in tomato raddish sequence	Ridge and furrow method with organic mulch	Ridge and furrow method	AICRP on Dryland Agriculture, Annual Report, 2017-18
RABI (REPEAT)	Demonstration of Single Row Vegetable Transplanter	Transplanting Done by Single row Vegetable Transplanter	Transplanting is done manually	CIAE Bhopal 2015-16
RABI (NEW)	Demonstration of tractor drawn seed cum fertilizer drill for Mustard	Sowing is done by tractor operated y seed cum fertilizer drill	Broadcasting	AICRP on FIM,CAET,OUAT 2014-15

FLD (NEW)	**Demonstration of Agricultural Drone Sprayer for control of Stem borer in Paddy**			
Season & Year	Kharif 2025		**No. of Trials & village**	10
Crop	Paddy	**Farming Situation**	Irrigated medium land	
Problem Diagnosed	High cost of Labour and time involved in spraying		**Spread & Intensity of Problem**	50500 ha, high
FP	Spraying is done manually by knapsack sprayer			**Source of technology**
RP	Spraying is done by Agricultural Drone			FIM,AICRP OUAT,2023
Characteristics of Technology	Cost of operation and labour requirements were found to be reduced by 52% and 90% respectively. The UAV has a Field capacity – 1.2 ha/h where it is 0.08 ha/h in BOK sprayer. Application rate of chemicals is 25 l/ha with Drone spraying as compared to 180 l/ha in traditional sprayer			
Observation Parameters	Field capacity (ha/hr), time saving (hr/ha) , cost saving (Rs/ha), Yield (Q/ha)		**Performance Indicator**	Cost of cultivation (Rs/ha), Net return (Rs/ha), BC ratio
Associated Scientist(s)	Sanghamitra Biswal SMS (Ag. Engg)			

FLD	**Demonstration of in-situ soil moisture conservation method in tomato raddish sequence**			
Season & Year	Kharif 2025		**No. of Trials & village**	10
Crop	Tomato	**Farming Situation**	Rainfed medium land	
Problem Diagnosed	soil moisture results in taking only one crop leading to less income/unit area and intensie weed prolem result in less productiity		**Spread & Intensity of Problem**	2000 ha medium
FP	Ridge and furrow method			**Source of technology**
RP	Ridge and furrow method with organic mulch			AICRP on Dryland Agriculture 2017-18
Characteristics of Technology	The Ridge furrow system with mulching helps to conserve water when there was lower rainfall by holding water in ridges and when there was higher rainfall, this helps to drain the excess water			
Observation Parameters	Yield (q/ha), water saving (%), weed control (%)		**Performance Indicator**	Cost of cultivation (Rs/ha), Net return (Rs/ha), BC ratio
Associated Scientist(s)	Sanghamitra Biswal SMS (Ag. Engg)			

FLD (new)	**Demonstration of tractor drawn seed cum fertilizer drill for Mustard**			
Season & Year	Rabi 2025	**No. of Trials & village**		10
Crop	Mustard	**Farming Situation**		Rice fallow
Problem Diagnosed	High cost of Labour	**Spread & Intensity of Problem**		2200ha, medium
FP	Broadcasting		**Source of technology**	
RP	Sowing is done by tractor operated seed cum fertilizer drill		AICRP on FIM,CAET,OUAT 2014-15	
Characteristics of Technology	Field capacity – 0.4ha/h			
Observation Parameters	Field capacity (ha/ha), Field efficiency (%), germination (%), Yield (q/ha)		**Performance Indicator**	B:C Ratio
Associated Scientist(s)	Sanghamitra Biswal SMS (Ag. Engg)			

Name of KVK: KVK, Bargarh				
Crop/ Enterprise	Problems to be addressed	FLD title	Demo details with FP	Observation Parameter
Papaya	Poor price realization from sale of papaya	Demonstration on value addition of papaya (Tutti-fruity)	FP:Direct selling of papaya RP: Harvest matured raw papaya, make incisions & drain the papaya extract. Wash the fruit well, peel, remove the seeds &cut into small pieces. Soak in 2 % brine containing 1 % calcium chloride for 30 minutes. Drain, wash the papaya pieces add equal quantities of sugar& boil for 5 minutes. Let soak at room temp. for 4 hours, and mix the required essence., coloring & citric acid. Add more sugar to the above mixture & boil up to a sugar conc. Of 70 0 brix. Dran the candied papaya pieces, spread on a trey& shade & dry. Packing in polythene bags, seal & store. (Source- TNAU, 2018)	Shelf life(Days), sensory evaluation (0-9 point hedonic scale Gross cost of intervention (Rs.), Net
Jackfruit	Poor price realization from sale of whole tender jackfruit	Demonstration on processing and packaging methods of tender jackfruit. (OFT-FLD)	FP- Direct selling of whole tender jackfruit RP-Surface cleaning / dirt removal by washing, Peeling and cutting into pieces. Dipping in 0.5% (w/v) Citric acid and 0.1% ascorbic acid for 7 minutes, surface drying and packaging in punnet pack or PP pouch with 0.0675% perforation and refrigerated storage at 10^0 C (Source- AICRP ON PHET,2016-17)	Shelf life(Days), sensory evaluation (0-9 point hedonic scale Gross cost of intervention (Rs.), Net Profit (Rs.) , B:C

FLD	Demonstration of tuberose cultivation for income generation of farm women(REPEAT)			
Season & Year	Kharif & 2025-26	No. of Trials & villages		10 & 3
Crop	Tuberose	Farming Situation		Irrigated Medium land
Problem Diagnosed	Poor yield and quality of flowers due to unavailability of quality planting material and variety.	Spread & Intensity of Problem		30 ha. & Medium
FP	Cultivation of degenerated variety		Source of Technology- IIHR, Bengalure, 2014	
RP	Cultivation of var. - Prajwal , spacing 30cmx20cm., NPK200:200:200Kg/ha			

Characteristics of Technology	Var. Prajwal, single type white flowers long stiff spikes (95 cm.), florets/spike- 50 , flower yield- 15.5-18 t/ha.		
Observation Parameters	No. of florets /spike, yield (q/ha)	Performance Indicator	Net Profit (Rs.) , B:C
Associated Scientist(s)	Scientist (Home Science)		

Name of the KVK: Bargarh				
Crop/Enterprise	FLD title	Demo details with FP	No. of Demonstration	No./ area, ha
Poultry	Demonstration on low input technology (LIT) poultry breed Vezaguda in backyard (NEW)	FP: Rearing of native poultry breed RP: Rearing of vezaguda poultry breed with proper brooding management for 21 days followed by free range feeding. (Source-CPDO, 2019.)	10	100

PROPOSED TRAINING (2025-26)

Discipline	**Type of training**	**No of Training**	**Duration (Days)**
Plant Protection	Farmers& Farm Women	12	One
	In-Service	02	Two
	Rural Youth	03	Three
Home Science	Farmers& Farm Women	12	one
	In-Service	02	two
	Rural Youth	03	Three
Ag. Engineering	Farmers& Farm Women	12	one
	In-Service	02	two
	Rural Youth	03	Three
Soil Science	Farmers& Farm Women	12	one
	In-Service	02	two
	Rural Youth	03	Three
Others	Farmers& Farm Women	12	one
	In-Service	02	two
	Rural Youth	03	Three
Total		**85**	

Plant Protection

Sl No.	Title	Duration	Category
1	Nursery Management in Kharif Rice	1	F/FW
2	IPDM for fingermillet during kharif season	1	F/FW
3	Integrated Nematode Management IN OKRA during kharif	1	F/FW
4	Management of Sheath blight disease in kharif paddy	1	F/FW
5	Management of Yellow Vein Mosaic Virus in Cucumber	1	F/FW
6	Integrated Disease Management in Kharif Chilly	1	F/FW
7	Importance of Biopesticide in Agril.pest management	1	F/FW
8	Panicle MITE management in kharif Rice	1	F/FW
9	Integrated Pest Management in Pointed Gourd	1	F/FW
10	Integrated Disease Management in Onion	1	F/FW
11	Integrated Disease Management in Potato	1	F/FW
12	Rearing Honey Bee for income generation	2	RY
13	Importance of neem pesticides and its local preparation	2	RY
14	Preparation of organic formulations	5	VT
15	Strategy for natural farming	1	IS

Home science

Sl No.	Title	Duration	Category
1	Improved crop management practices in nutritional garden	1	F/FW
2	Supplementary feed with azolla for Milch cows	1	F/FW
3	Processing of dal through mini dal mill for additional income of farm women	1	F/FW
4	Storage techniques of green gram	1	F/FW
5	Use of finger millet thresher for drudgery reduction	1	F/FW
6	Use of different Weeders for drudgery reduction	1	F/FW
7	Scientific method of oyster mushroom cultivation	1	F/FW
8	Value added products of tomato	1	F/FW
9	Improved methods of raising vegetable seedlings in nursery	1	F/FW
10	Training on Brooding management of improved poultry	1	F/FW
11	Preparation of value added products from mango	1	F/FW
12	Brooding management of improved poultry	2	RY
13	Production & use of vermicompiost	2	RY
14	Income generation through mushroom farming	5	VT
15	Formulation of low-cost balanced diet for children	1	IS

Ag Engg.

Sl No.	Title	Duration	Category
1	Use and maintenance of paddy transplanter	1	F/FW
2	Women friendly drudgery reducing farm implements	1	F/FW
3	Operation of different power operated millet threshers	1	F/FW
4	Operation and maintenance of different power operated weeders	1	F/FW
5	Operation of different ullock drawn farm implements	1	F/FW
6	Use of mulching for weed and water management in horticultural crop	1	F/FW
7	Different tractor drawn machinery, its function and maintenance	1	F/FW
8	Micro irrigation system its working and maintainance	1	F/FW
9	Use of paddy drum seeder for pre germinated paddy	1	F/FW
10	Different soil moisture conservation techniques	1	F/FW
11	Use of pulse mill for milling of pulses	1	F/FW
12	Operation and maintenance of power tiller for puddling	2	RY
13	Operation and maintenance of tractor drawn seed cum fertilizer drill for direct sowing of different crops	2	RY
14	Operation and maintenance of tractor	2	VT
15	Micro irrigation system its working and maintainance	1	IS

Soil Science

Sl No.	Title	Duration	Category
1	Biofertilizer application in paddy (SCSP)	1	F/FW
2	Application of B & Mo for management of browning & whiptail disease in cauliflower	1	F/FW
3	Sulphur application in onion for enlargement of bulb	1	F/FW
4	Nutrient management practices in Ragi	1	F/FW
5	Integrated nutrient management in Paddy	1	F/FW
6	Foliar application of nano urea fertilizer in transplanted rice	1	F/FW
7	Nutrient management practices in cotton	1	F/FW
8	Effect of lime coating and seed treatment in greengram	1	F/FW
9	Use of LCC for management of Nitrogen in paddy	1	F/FW
10	Vermicompost production in HDPE polybags	1	F/FW
11	Micronutrient application in sweetcorn cultivation	1	F/FW
12	Green manuring in paddy	1	F/FW
13	Vermicompost production technology	2	RY
14	Importance of soil testing and fertilizer recommendation	2	RY
15	Role of organic manure for soil health management	2	VT
16	Biofertilizer application for soil improving the physical, chemical & biological properties of the soil	1	IS

Extension Activities

Extension Activities	Target	
	No	Participants
Field Day	10	390
KisanMela	2	600
KisanGhosthi	40	1500
Exhibition	4	380
Film Show	20	540
Method Demonstrations	40	750
Farmers Seminar	2	Mass
Workshop	4	Mass
Group meetings	60	Mass
Lectures delivered as resource persons	15	2000
Advisory Services	50	2000
Scientific visit to farmers field	100	80000
Farmers visit to KVK	120	740
Diagnostic visits	50	670
Exposure visits	5	100
Ex-trainees Sammelan	2	200
Soil health Camp	2	200

Action plan for Seed & Quality Planting Material production (2025-26)

Crop	Season	Variety	Class	Area (ha)	Production (q)
RICE	KHARIF2024	LALAT& HASANT	FS	6	240Q
Rice	Rabi2023-24	Bina-11/LALAT	FS	2.0	70

Quality planting material production Programme

Name of plant	Variety	No. produced
SEEDLINGS Tomato, Brinjal, Chilli, Cauliflower, cabbage, Broccoli,capsicum drumstick, papaya	A.Rakshyak, A.apeksha, A. vishesha A Harshita, A.Ananda BHAGY, PRAVA	200000

Other materials produced

Name of the item	**No./ Kg .produced**
Vermicompost	**50Q**
Mushroom	**100 kg.**
Mushroom spawn	**2000 no.**
Chicks	**1000**
Fish Yearlings	**10000**