



ACTION PLAN 2021-22

SCSP PROGRAM



KRISHI VIGYAN KENDRA, JAJPUR

**ODISHA UNIVERSITY OF AGRICULTURE &
TECHNOLOGY, BHUBANESWAR
ICAR ATARI, KOLKATA**

ACTION PLAN FOR SCSP 2021-22 OF KVK JAJPUR

The objectives with which this SCSP program will be implemented at KVK, Jajpur are

1. To demonstrate promising technologies which can increase their income and livelihoods
2. To improve the skill and competency in application of new technologies
3. To ensure access to quality seed and other technological products

Selection of villages and beneficiaries

Villages with SC dominated population who are engaged in agriculture and allied activities for their livelihoods will be selected for implementation of various outlined activities. Only SC beneficiaries will be selected under each activity assessing their needs, technology gaps, available resources etc. To accomplish the objectives following activities will be carried out with special focus on SC communities of SC dominated villages.

- a) Frontline Demonstration
- b) Training
- c) Production of seed, QPM and other techno products
- d) Other extension activities

ABSTRACT OF PROPOSED ACTIVITIES

Name of activity	No. of activity	Beneficiaries
FLD	25	440
Field Days	25	1250
Training	27	675
Method Demonstrations	15	400
Soil testing	230	-
Publications	9	-
Seed, QPM, other techno product production	-	175
Exposure visits	3	75

(A) FRONTLINE DEMONSTRATION**FLD-1**

Title of the FLD	:	Demonstration on lean to type trellis in pointed gourd
Thrust Area	:	Income generation
Season	:	Rabi 2021-22
Farming Situation:	:	irrigated upland
No.of demonstrations	:	10
Farmers Practice	:	Raised bed cultivation
Details of the technology	:	Lean to type trellis – stakes are joined between two adjoining bed forming an A shaped structure horizontal stakes are installed at the top joining of all other beds . The stakes support the climbing vines. Strings are used to secure adjoining stakes. trellis height 2m
Observation parameters	:	Length of fruit, Wt. of fruit, incidence of fruit rot
Scientists involved:		Dr. Babita Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-2

Title of the FLD	:	Demonstration on tomato var. Arka Rakshak for higher income
Thrust Area	:	Income generation
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated medium/upland
No.of demonstrations	:	10
Farmers Practice	:	Cultivation of tomato, var. Priya
Details of the technology	:	Cultivation of tomato variety Arka Rakshak with recommended package of practices, planting Oct-Nov, spacing- 3 ft X 3 ft. , 12000 seedling/ha , fertilizer -150:120:150 kg/ha
Observation parameters	:	No. of fruits/plant, vine length, wt. of fruit, % of infected fruit
Scientists involved:		Dr. Babita Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-3

Title of the FLD	:	Demonstration on dwarf high yielding variety of papaya
Thrust Area	:	Income generation
Season	:	Rabi 2021-22

Farming Situation:	:	Backyard/Irrigated upland
No.of demonstrations	:	10
Farmers Practice	:	Under utilized backyard/upland
Details of the technology	:	Papaya variety Vinayak, seedling raising in polythene, planting spacing 2mx2m , STBF application, need based Plant protection measure.
Observation parameters	:	No. of fruits/plant, fruit yield/plant, fruit wt. economics
Scientists involved:		Dr. Babita Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-4

Title of the FLD	:	Demonstration on capsicum for increased income
Thrust Area	:	Income generation
Season	:	Rabi, 2021-22
Farming Situation:	:	Irrigated medium/Upland
No.of demonstrations	:	10
Farmers Practice	:	Cultivation of chilli
Details of the technology	:	Cultivation of capsicum var. California wonder with recommended package of practices. Seed treatment with Ridomil MZ 2.5ml/lit of water, 162.5kg, 50:75kg NPK/ha (soil test based) spacing 60cmX45cm with need based plant protection measures
Observation parameters	:	No. of fruits/plant, vine length, wt. of fruit, % of infected fruit, Economics
Scientists involved:		Dr. Babita Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-5

Title of the FLD	:	Demonstration on marigold var. Serakole for income generation
Thrust Area	:	Income generation
Season	:	Rabi 2021-22
Farming Situation:	:	irrigated medium /upland
No.of demonstrations	:	10
Farmers Practice	:	Vegetable cultivation
Details of the technology	:	Transplanting of seedling at spacing 60×45 cm, topping of apical shoots at 15 days interval (3 times), application of DAP+Potash @50g/plant at active vegetative and flowering stage.
Observation parameters	:	No. of flowers/plant, flower yield, economics
Scientists involved:		Dr. B. Mishra, Scientist (Horticulture), Mr. S.P Mishra, PA (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-6

Title of the FLD	:	Demonstration IPM modules for management of leaf curl and mealybug in papaya
Thrust Area	:	IPM for fruit crops
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated Upland
No.of demonstrations	:	10
Farmers Practice	:	Application of Imidachloprid @3ml/10L
Details of the technology	:	Soil application of carbofuran 3 G around the plant twice (at transplanting and 30 DAT) + Alternate application of Flonicamid 50 WG @ 150 g/ha and neem oil (1500 ppm Azadirachtin) @ 1.5 l/ ha at 15 days interval + yellow sticky trap @ 25/ha + Coriander as intercrop
Observation parameters	:	Whitefly (1.02 whitefly/ 3 leaves/ plant) Mealy bug/10 cm shoot length, Yield (q/ha), Net income, B:C ratio
Scientists involved		Mr. B.K. Rautray, Scientist (Plant Protection) and Dr. B. Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-7

Title of the FLD	:	Demonstration IPM modules for management Brinjal Fruit and Shoot borer
Thrust Area	:	IPM for Vegetables
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated Upland
No.of demonstrations	:	10
Farmers Practice	:	Application of Cholo+cyper @2ml/L
Details of the technology	:	Soil application of Cartap4G@1kg a.i/ha at 14DAP, inter cropping with Coriander(3:1ratio) alternate spraying of <u>Indoxacarb14.5SC@1ml/lit</u> and <u>Rynaxypyr20SC@0.3ml/lit</u> at 10 days interval at vegetative stage and six times commencing from fruiting stage and regular clipping and destruction of infested twigs/fruits
Observation parameters	:	No of infested shoots/fruits/ plant),Yield (q/ha), Net income, B:C ratio
Scientists involved		Mr. B.K. Rautray, Scientist (Plant Protection) and Dr. B. Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-8

Title of the FLD	:	Demonstration IPM for management of BPH /WBPH in rice
Thrust Area	:	IPM for BPH/WBPH
Season	:	Kharif 2021
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	20
Farmers Practice	:	Application of Imidacloprid @3ml/L
Details of the technology	:	Alternate wetting and drying (3-4days), spraying of neem oil @5ml/lit and Flonicamid 50% WG@150gm/ha alternatively at 7 day interval
Observation parameters	:	No of nymphs/adults/ plant),Yield (q/ha), Net income, B:C ratio
Scientists involved		Mr. B.K. Rautray, Scientist (Plant Protection) and Dr. L.K Mohanty (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-9

Title of the FLD	:	Demonstration IPM modules for management okra pests
Thrust Area	:	IPM for Vegetables
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated Upland
No.of demonstrations	:	10
Farmers Practice	:	Application of Cholo+cyper @2ml/L
Details of the technology	:	Installation of YST @20 traps/ha, release of bio agents @50,000/ha/week (T .chilonis)Spraying of Neem oil @ 5ml/lt and Fenopropathrin 30EC 75gm a.i /ha alternatively at 10 days interval.
Observation parameters	:	No of infested shoots/fruits/leaves / plant),Yield (q/ha), Net income, B:C ratio
Scientists involved		Mr. B.K. Rautray, Scientist (Plant Protection) and Dr. B. Mishra, Scientist (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-10

Title of the FLD	:	Demonstration IPM modules for green gram
Thrust Area	:	IPM for pulses
Season	:	Rabi 2021
Farming Situation:	:	Rainfed medium land
No.of demonstrations	:	20
Farmers Practice	:	Application of Cholo+cyper @2ml/L
Details of the technology	:	Seed treatment with imidacloprid 600FS@5ml/kg ,+Installation of YST@20no/ha, alternate spraying of neem oil 0.15%@2ml/lit at 35DAS and Acetamprid 20 SP @3gm/10lit of water at 50 DAS.
Observation parameters	:	No of infested / plant),Yield (q/ha), Net income, B:C ratio
Scientists involved		Mr. B.K. Rautray, Scientist (Plant Protection) and Mr. S Dash, Scientist (Soil Sc.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-11

Title of the FLD	:	Demonstration on IWM in transplanted rice
Thrust Area	:	IWM
Season	:	Rabi, 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	25
Farmers Practice	:	Manual weeding at 25 DAT
Details of the technology	:	Post emergence application of herbicide Penusxulam 93.75ml/ha at 12 DAT + HW at 30 DAT
Observation parameters	:	WCE, Yield, B:C:R
Scientists involved:		Dr. L.K Mohanty, Scientist (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-12

Title of the FLD	:	Demonstration on sweet corn for higher income
Thrust Area	:	Income Generation
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated Medium land
No.of demonstrations	:	15
Farmers Practice	:	Maize var. P 3441
Details of the technology		Sweet corn var. Pusa Super Sweet corn-1
Observation parameters	:	Avg. Cob wt, Cob length, No. of cob/plant, cob yield, economics
Scientists involved:		Dr. L.K Mohanty, Scientist (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-13

Title of the FLD	:	Demonstration on sulphur application in sugarcane
Thrust Area	:	Income generation
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	15
Farmers Practice	:	No application of Sulphur. Application of RDF of N ,P and K

Details of the technology	:	Soil test based fertilizer application in sugarcane @ 315:100:60 kg N:P ₂ O ₅ :K ₂ O+60 kg elemental S/ha recorded highest cane yield of 81.44 t/ha and was most remunerative
Observation parameters	:	Plant height(cm), Cane length, Girth diameter(cm), No. of canes per plant, Cane weight, Yield/ha,BCR
Scientists involved:		Dr. L.K Mohanty, Scientist (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-14

Title of the FLD	:	Demonstration on hybrid maize cv. Kalinga raj
Thrust Area	:	Income Generation
Season	:	Kharif 2021
Farming Situation:	:	Irrigated Medium land
No.of demonstrations	:	15
Farmers Practice	:	Maize var. P 3441
Details of the technology	:	A medium duration maize hybrid Kalinga Raj(OMH-14-27) stress tolerant, yield potential 65q./ha
Observation parameters	:	Avg. Cob wt, Cob length, No. of cob/plant, cob yield, BCR
Scientists involved:		Dr. L.K Mohanty, Scientist (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-15

Title of the FLD	:	Demonstration on production technology of vermicomposting
Thrust Area	:	Soil Health management
Season	:	-
Farming Situation:	:	Rainfed upland
No.of demonstrations	:	25
Farmers Practice	:	FYM
Details of the technology	:	Composting cowdung and leafy materials in the ratio of 3:10 in the vermicompost polythene bagsize of 8'x4'x2.5' with release of earthworm variety Eisenia foetida @ 1kg/q./waste material
Observation parameters	:	Nutrient status of vermicompost
Scientists involved:		Mr. S. Dash, Scientist (Soil Sc.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-16

Title of the FLD	:	Demonstration on foliar application of B in cabbage
Thrust Area	:	
Season	:	Rabi 2021-22
Farming Situation:	:	Rainfed
No.of demonstrations	:	25
Farmers Practice	:	NPK as basal application (110-50-40) kg/ha
Details of the technology	:	STBF (NPK) +2 foliar spray of Borax @0.25% at 10 days interval starting from 30 DAS
Observation parameters	:	Head wt (g.), size
Scientists involved:		Mr. S. Dash, Scientist (Soil Sc.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-17

Title of the FLD	:	Demonstration on groundnut decorticator
Thrust Area	:	Farm mechanization
Season	:	Rabi, 2021-22
Farming Situation:	:	Irrigated medium/Upland
No.of demonstrations	:	25
Farmers Practice	:	Manual
Details of the technology	:	Use of sitting type of groundnut decorticator, field capacity 30kg/ha
Observation parameters	:	Decorticating capacity, cost of decortications (Rs/q), % of broken
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-18

Title of the FLD	:	Demonstration on groundnut stripper
Thrust Area	:	Farm mechanization
Season	:	Rabi, 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	25
Farmers Practice	:	Manual

Details of the technology	:	Field capacity 11kg/h per person
Observation parameters	:	Field capacity, efficiency
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-19

Title of the FLD	:	Demonstration on Brush cutter
Thrust Area	:	Farm mechanization
Season	:	Rabi, 2021-22
Farming Situation:	:	Rainfed
No.of demonstrations	:	25
Farmers Practice	:	By spade
Details of the technology	:	Use of brush cutter , field capacity
Observation parameters	:	Field capacity,
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-20

Title of the FLD	:	Demonstration on sprinkler in greengram
Thrust Area	:	Micro irrigation
Season	:	Rabi, 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	5
Farmers Practice	:	No irrigation
Details of the technology	:	Irrigation by sprinkler in pre flowering and pod filling stage increase yield by 30%
Observation parameters	:	
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD-21

Title of the FLD	:	Demonstration on tractor drawn seed drill for groundnut
Thrust Area	:	Farm mechanization
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	25
Farmers Practice	:	Manual putting seeds behind the plough
Details of the technology	:	
Observation parameters	:	
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD- 22

Title of the FLD	:	Demonstration on Improved sickle
Thrust Area	:	Farm mechanization
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	50
Farmers Practice	:	Indigenous sickle
Details of the technology	:	Demonstration of improved sickle for better efficiency
Observation parameters	:	Field capacity, efficiency
Scientists involved:		Dr. B. Mohanta, Scientist (Agril. Engg.), Dr. L.K Mohanty, Scientist (Agronomy)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD- 23

Title of the FLD	:	Demonstration on polythene mulching in capsicum
Thrust Area	:	Moisture conservation
Season	:	Rabi 2021-22
Farming Situation:	:	Up land rainfed
No.of demonstrations	:	15
Farmers Practice	:	Cultivation without mulching
Details of the technology	:	Use of 30 micron LDPE black polythene
Observation parameters	:	No. of fruits/plant, yield
Scientists involved:		Mr. Siba Prasad Mishra, PA (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD- 24

Title of the FLD	:	Demonstration of Anti transpirants in brinjal
Thrust Area	:	Minimization of water use
Season	:	Rabi 2021-22
Farming Situation:	:	Upland irrigated
No.of demonstrations	:	15
Farmers Practice	:	Only irrigation
Details of the technology	:	Use of potassium nitrate @2gm/lot of water , use of Na ₂ CO ₃ @2g/lit of water
Observation parameters	:	No. of fruits/plant, fruit wt, yield, BCR
Scientists involved:		Mr. Siba Prasad Mishra, PA (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

FLD- 25

Title of the FLD	:	Demonstration on IPM for control of YMV in papaya
Thrust Area	:	Income generation
Season	:	Rabi 2021-22
Farming Situation:	:	Irrigated medium land
No.of demonstrations	:	15
Farmers Practice	:	Use of chemical pesticide Thiomethoxam
Details of the technology	:	Two times application of Trichoderma once at the time of planting and second at the time of flowering.
Observation parameters	:	No. of fruits/plant, fruit wt. , yield, BCR
Scientists involved:		Mr. Siba Prasad Mishra, PA (Horticulture)

Extension Activities for FLD	No. of activities	No of participants
Field Day	1	50

(B) TRAINING

Sl.No.	Title of Training	No.of courses	Duration	On/off-campus	Tentative Month	No.of participants
1	Integrated weed management in transplanted rice	1	1	Off	Dec , 2021	25
2	IWM in pulse crop (greengram & blackgram)	1	1	Off	Jan 2022	25
3	IWM in oilseed crop (groundnut)	1	1	Off	Jan , 2022	25
4	INM in groundnut	1	1	Off	Jan 2022	25
5	INM in sugarcane	1	1	Off	Dec 2021	25
6	Use of small implements	1	1	Off	Dec, 2021	25
7	Value addition of tomato	1	1	Off	Jan, 2022	25
8	Value addition of milk	1	1	Off	Dec, 2021	25
9	Use of minidal mill	1	1	Off	Feb, 2022	25
10	Utility of sprinkler	1	1	Off	March, 2022	25
11	Production technology of vermicompost	1	1	Off	Dec, 2021	25
12	Foliar application of B in cabbage	1	1	Off	Jan, 2022	25
13	Different types of trellis in cucurbitaceous crop	1	1	Off	Dec, 2021	25
14	Scientific method of capsicum cultivation	1	1	Off	Dec, 2021	25
15	Hybrid tomato cultivation	1	1	Off	Nov, 2021	25
16	Production technology of marigold cultivation	1	1	Off	Nov, 2021	25
17	Improved method of Papaya Cultivation techniques	1	1	Off	Dec, 2021	25
18	IPM modules for management of leaf curl and mealybug in papaya	1	1	Off	Nov, 2021	25
19	IPM modules for management Brinjal Fruit and Shoot borer	1	1	Off	Nov, 2021	25
20	IPM for management of BPH /WBPH in rice	1	1	Off	Dec, 2021	25
21	IPM modules for management okra pests	1	1	Off	Dec, 2021	25
22	IPM modules for green gram	1	1	Off	Nov, 2021	25
23	polythene mulching in capsicum	1	1	Off	Dec, 2021	25

24	Training on Anti transpirants in brinjal	1	1	Off	Dec, 2021	25
25	IPM for control of YMV in papaya	1	1	Off	Nov, 2021	25
26	Formation and management of farmers producer group	1	1	Off	Dec, 2021	25
27	Income generation activities of SHGs	1	1	Off	Jan, 2022	25

(C) PRODUCTION OF SEED, QUALITY PLANTING MATERIAL AND OTHER TECHNO PRODUCTS

Activity	Intervention	No.of beneficiary
Rice Seed production	Seed production	25
Vegetable and fruit production	QPM of brinjal, tomato, chilli, cole crops, papaya, onion, drumsticks, capsicum	25
Flower production	Marigold	20
Production of yearlings	Supply of fingerlings	5
Organic manures	Vermicompost, Azolla, vermiwash	25
Mushroom	Spawn (paddy straw and oyster)	50
Poultry	Poultry	25

(D) METHOD DEMONSTRATIONS

Sl.No.	Title of method demonstrations	No.of activity	No.of participants
1	Seed treatment	2	50
2	Installation of traps (tricho, Pheromone etc.)	2	50
3	Release of Bio agents	3	100
4	Preparation of spray solution	2	50
5	Safe use of pesticides	2	50
6	Nursery bed preparation and seed showing	2	50
7	Different methods of grafting and buding	2	50

(E) SOIL AND WATER TESTING

Activity	No. of Samples
Testing of Soil Samples and issue of soil health cards	230

(F) PUBLICATION

Sl.No.	Title of publication	Type	No.of copies
1	Dhana Phasalare Roga o Poka Parichalana	Booklet	500
2	Dali jatiya Phasala re Samanitwa Roga poka Niyantrana	Booklet	500
3	Improved cultivation practice of Sugarcane	Booklet	500
4	Improved cultivation practice of Sweetcorn	Booklet	500
5	Baigyanika pranalire gendu chasa	Booklet	500
6	Baigyanika pranalire unatamana ra chara prastuti o tara rakhyna bekhyana	Booklet	500
7	Labhajanaka tomato chasa	Booklet	500
8	Labhajanaka baigana chasa	Booklet	500
9	Murtika parikhya o sara parichalana	Booklet	500

(G) EXPOSURE VISITS

Sl.No.	No. of visit	No of Participants
1	03	75