



ACTION PLAN

2023-24

KRISHI VIGYAN KENDRA, BOUDH

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

At-Paljhar, P.O.-Salunki, Dist-Boudh, Pin-762026

E-mail: kvkoudh.ouat@gmail.com, Kvk.boudh.ac.in

ACTION PLAN FOR SCSP 2023-24 OF KVK BOUDH

SCSP program is a special scheme of ICAR for which separate fund is given to carry out activities meant for SC communities. This KVK is receiving funds under this scheme every year.

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

1. To demonstrate potential technologies which can enhance their income and livelihoods
2. To assess and validate specific frontline technologies for raising income of SC people
3. To improve the skill and competency in application of new technologies
4. 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	13	325
Field Days	07	350
Training	30	680
Method Demonstrations	06	180
Soil testing	100	500
Publications	08	2100
Seed, QPM, and other techno. product production	05	270
Exposure visits	02	50

(A) FRONTLINE DEMONSTRATION

FLD-1

Title of the FLD	:	Demonstration on Nursery raising of vegetables
Thrust Area	:	Income generation
Season	:	Round the year (2023-24)
Farming Situation:	:	Irrigated upland
No.of demonstrations	:	10
Farmers Practice	:	Seed sowing with normal practices
Details of the technology	:	Seed treatment, line sowing Preparation of bed & management, low-costpolytunnel
Observation parameters	:	% of germination, seedling survival %
Scientists involved:		Smt. Harapriya Sethi. (Farm Manager)

Extension Activities for FLD	No. of activities	No of participants
Awareness cum training	1	30

FLD-2

Title of the FLD	:	Demonstration on Backyard Poultry farming
Thrust Area	:	Income generation
Season	:	Round the year (2023-24)
Farming Situation:	:	Backyard
No.of demonstrations	:	50
Farmers Practice	:	Farmers are rearing desi bards
Details of the technology	:	Vaccination, rearing management, low cost feeding management
Observation parameters	:	Body weight, Body mass index, Egg laying capacity
Scientists involved:		Mayuri sing Sardar, SMS (Agril.Extension)

Extension Activities for FLD	No. of activities	No of participants
Training for RY & Farm women	2	40

FLD-3

Title of the FLD	:	Demonstration on Honey bee rearing
Thrust Area	:	Income generation
Season	:	Kharif 2023-24
Farming Situation:	:	Irrigated
No.of demonstrations	:	10
Farmers Practice	:	Farmers are not rearing honey bee
Details of the technology	:	Colony installation, Hive management, Hive separation, Harvesting technique
Observation parameters	:	No of harvesting, Yield/box/harvesting
Scientists involved:		Sri Tapan Kumar Das & Sri Bikram Parimanik

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

FLD-4

Title of the FLD	:	Demonstration on Production of paddy straw mushroom using threshed straw/Crumbled straw for income generation
Thrust Area	:	Income generation
Season	:	Kharif 2023
Farming Situation:	:	Homestead/Backyard
No.of demonstrations	:	40
Farmers Practice	:	Cultivation of Paddy straw mushroom by using bundle paddy straw with normal practice (soaking in water 8-10 hr), paddy straw 7 kg, pulse powder 3%, Spawn- 3%, BE-10%
Details of the technology	:	Cultivation of Paddy straw mushroom by using threshed paddy straw by soaking in water 5 hr+ paddy straw 5 kg+ pulse powder 3% Spawn- 3%, Biological efficiency-15%
Observation parameters	:	Pin head appearance(days) spawn run period(days), bud weight (gm) Biological efficiency (%) Yield (kg/bed)
Scientists involved:		Mrs. Sasmita Pal, Scientist (Home. Science)

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

Title of the FLD	:	Demonstration of blue oyster mushroom var. <i>Hypsizygousulmarius</i>-
Thrust Area	:	Income generation
Season	:	Rabi 2023-24
Farming Situation:	:	Homestead
No. of demonstrations	:	40
Farmers Practice	:	Cultivation of <i>P. sajarcajju</i> (Temperature:20 ⁰ -30 ⁰ c)
Details of the technology	:	Cultivation of blue oyster mushroom var. <i>Hypsizygousulmarius</i> -Cutting of paddy straw 2-3” size, soaking in lime (1%) for 6-7hrs, draining of straw (moisture content 65%), 40x80 cm ² polythene bed (Temp:18 ⁰ -30 ⁰ c)
Observation parameters	:	Yield, Biological efficiency, net income, B:C ratio.
Scientists involved:		Mrs. Sasmita Pal, Scientist (Home. Science)

Extension Activities for FLD	No. of activities	No of participants
Awareness cum training	2	50

FLD-5

Title of the FLD	:	Demonstration on long Duration Paddy variety- MTU-1224
Thrust Area	:	Crop production
Season	:	Kharif, 2023
Farming Situation:	:	Rainfed low Land
No. of demonstrations	:	50
Farmers Practice	:	Rice Variety Pooja
Details of the technology	:	Long duration (140 days), High yielding, non-lodging variety, tolerant to BPH and blast, 2 weeks dormancy.
Observation parameters	:	Effective tillers/ m ² . No of filled grains/Panicle, 1000

		grain weight
Scientists involved:		Mayuri Sing Sardar, SMS (Agril.Extension)

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

FLD-6

Title of the FLD	:	Demonstration on Hybrid Maize-Kalinga Raj
Thrust Area	:	Income generation
Season	:	Kharif 2023
Farming Situation:	:	Irrigated Upland
No.of demonstrations	:	10
Farmers Practice	:	Cultivation of normal Corn.
Details of the technology	:	Suitable for Kharif season Av. yield: 79.5 q/ha, duration: 92 days, resistant to rust, downy mildew, charcoal rot fusarium stalk, and tolerant to drought.
Observation parameters	:	Ear Length, Ear Diameter, No. of cobs per Plant, Yield per ha
Scientists involved:		Mayuri Sing Sardar,SMS (Agril.Extension)

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

FLD-7

Title of the FLD	:	Demonstration on Nutritional Garden for nutritional security of farm families
Thrust Area		Nutrition security
Season	:	Round the year
Farming Situation:	:	homestead
No.of demonstrations	:	10
Farmers Practice	:	Irregular and unsystematic Nutritional Gardening with seasonal vegetables
Details of the technology	:	Nutritional garden with Protein, Vitamins&iron-rich vegetables and fruits with family preference Growing vegetables around the year covering leafy

		vegetables, Solanaceous vegetables, Roots and Tubers, cucurbits suiting to consumption pattern with floriculture, Spices, Medicinal Plants in bunds + Two Papaya, One Lemon, one drumstick and two Banana Plants 1. Trellis structure with PP rope for raising cucurbits 2. Pro-tray / low-cost polytunnel for raising seedlings in small quantities + Cement tank for vermicomposting
Observation parameters	:	Vegetable consumption (g/member/day) RDA %, Additional income per annum
Scientists involved:		Mrs.Sasmita Pal, Scientist (Home.Science)

Extension Activities for FLD	No. of activities	No of participants
Awareness camp	1	50

FLD-8

Title of the FLD	:	Demonstration on Sucking Pest Management in Cotton
Thrust Area		Pest management
Season	:	Kharif- 2021
Farming Situation:	:	Upland Rainfed conditions
No.of demonstrations	:	10
Farmers Practice	:	Indiscriminate use of pesticides
Details of the technology	:	Planting of maize as border crop around the field, intercropping of cowpea @ 8:2 ratio. Application of Azadirachtin 0.15% @ 1.5 Lit./ ha twice @ 30 & 45 DAS Application of Flonicamid 50% WG @ 175 gm/ha twice at 60 and 70 DAS
Observation parameters	:	No. of sucking pests/3 leaves
Scientists involved:		Sri Tapan Kumar Das, Sr. Scientist & Head

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

FLD-9

Title of the FLD	:	Demonstration on Management of Stem Borer in Rice
Thrust Area		IPM
Season	:	Kharif- 2023
Farming Situation:	:	Rainfed upland
No.of demonstrations	:	10
Farmers Practice	:	Farmers are applying phorate @ 10kh/ha, chloropyriphus
Details of the technology	:	Release Trichogramma chilonis @ 20,000/acre thrice at 7 days intervals. First release will be done at 30 DAT. One spray of Rynaxypyr 150 ml/ha and one spray of spinetoram 6%+methoxyfenozide 30% SC @ 400 ml/ha alternately at 15 days and 45 DAT
Observation parameters	:	No of insect/plant, % of infestation, yield/ha.
Scientists involved:		Sri Tapan Kumar Das, Sr. Scientist & Head

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

FLD-10

Title of the FLD	:	Demonstration of Improved varieties of Drumstick Odishi-3/ PKM-1 in the Backyard
Thrust Area		Income generation through homestead horticultural activity
Season	:	Kharif-2023
Farming Situation:	:	Homestead/Backyard
No. of demonstrations	:	10
Farmers Practice	:	Cultivation of farmers' own variety
Details of the technology	:	Improved var of Drumstick with proper nutrient pest management, fast-growing dwarf and self-pruning plant canopy, spacing 3.5m x 3.5m, NPK 300: 250:400gm in 4 splits, 5 kg FYM/

Observation parameters	:	Flowering stage, Yield, BC ratio
Scientists involved:		Mayuri Sing Sardar & Harapriya Sethy

Extension Activities for FLD	No. of activities	No of participants
Training	1	25

FLD-11

Title of the FLD	:	Demonstration on onion var. NHRDF red 3
Thrust Area		varietal evaluation
Season	:	Rabi 2023-24
Farming Situation:	:	Rainfed up land
No. of demonstrations	:	10
Farmers Practice	:	Cultivation of farmers' own variety
Details of the technology	:	Cultivation of Onion variety NHRDF Red 3 Bulbs are light bronze color, globular round shape, bulb diameter of 5.5-6.0 cm. Bulb matures in 120-130 DAT
Observation parameters	:	Avg. bulb weight(gm), Yield, economics
Scientists involved:		Harapriya Sethy, Farm Manager

Extension Activities for FLD	No. of activities	No of participants
Awareness cum training	1	25

FLD-12

Title of the FLD	:	Demonstration on seedling raising technique of vegetable crops by using pro-tray
Thrust Area		Nursery raising
Season	:	Rabi 2023-24
Farming Situation:	:	Irrigated upland
No. of demonstrations	:	10
Farmers Practice	:	Raising vegetable seedling in open field on bed by using soil and FYM
Details of the technology	:	The seedling tray (pro tray) is filled with the growing medium (moistened coco peat). One seed per cell is sown and covered with medium and covered with polythene sheet

		to ensure the conservation of moisture till germination. The trays are irrigated lightly. Drenching the trays with fungicides as a precautionary measure against seedling mortality is also being done. Spraying of 0.3 percent (3g / liter) water soluble fertilizer using poly feed (19 all with trace elements) twice (12 and 20 days after sowing) for enhancing the growth of the seedlings. The seedlings would be ready in about 21-30 days for transplanting to the main field depending upon the crop.
Observation parameters	:	% of seedling mortality, seed germination %, Number of days required from seed sowing to transplanting (days), Seedling height (cm)
Scientists involved:		Mayuri Sing Sardar, SMS (Agril. Extension)

Extension Activities for FLD	No. of activities	No of participants
Training for RY & farm women	1	25

FLD-13

Title of the FLD	:	Demonstration on Agri-silvi system
Thrust Area		Agroforestry
Season	:	Kharif- 2023
Farming Situation:	:	Rainfed upland
No. of demonstrations	:	10
Farmers Practice	:	The traditional method of tree growing, No Agro-forestry practice.
Details of the technology	:	Acacia sp.is planted at a distance of 2.5 mt x 2.5 mt & inter-cropping of turmeric at a spacing of 50 cm x 50 cm.
Observation parameters	:	I. Tree growth (Height/Diameter) II. Growth of turmeric III. Yield of turmeric
Scientists involved:		Sri Bikram Keshari Parimanik, Prog.Asst.(Forestry)

Extension Activities for FLD	No. of activities	No of participants
Awareness camp	1	25

(B) ON FARM TESTING: NIL

(C) TRAINING

Sl No.	Particulars	No.of Trainings	Durati on (days)	Type (On/ Off)
Plant Protection				
i.	Integrated management of BPH/WBPH in Kharif & Rabi Rice	01	01	OFF
ii.	Integrated fall armyworm management in Kharif maize	01	01	OFF
iii.	Integrated BLB disease management in Paddy	01	01	OFF
iv.	Integrated sucking pest management in cotton	01	01	ON
v.	Different PP chemicals and their formulation and method of use in crops.	01	01	ON
Horticulture				
i.	INM in brinjal	01	01	OFF
ii.	Training of agrotechniques of kharif onion	01	01	OFF
iii.	Nursery raising through portray	01	01	OFF
iv.	Off-season vegetable cultivation	01	01	OFF
v.	Protected cultivation of vegetables	01	01	OFF
Agril.Extension				
i.	Extension strategies for linking farmers with market	01	01	OFF
ii.	Potential opportunity in poultry rearing for entrepreneurship development	01	01	OFF
iii.	Good agricultural practices and enhanced resources use efficiency for doubling farmers' income	01	01	OFF
iv.	Agro-enterprise management among farm women	01	01	ON
v.	Role of farmer producer organization in strengthening farmers' economy	01	01	ON
Agro-Forestry				
i.	Forest Nursery and Its management	01	01	OFF
ii.	Agroforestry system	01	01	OFF
iii.	Teak Farming	01	01	OFF
iv.	Scientific Bee Keeping	01	01	OFF
Home Science				
i.	Transforming and scaling up women-owned mushroom farming enterprise	01	01	OFF
ii.	Pathway to HH nutrition security for the achievement of sustainable development goal	01	01	OFF
iii.	Practical approaches to post-harvest management of mushroom production	01	01	OFF
iv.	Popularization of best practices for achievement of health and sanitation	01	01	OFF

(D) Rural Youth Training

Sl. No	Title	No. of Trainings	Duration (days)	Type (On/Off)
i.	Post-harvest management of vegetables	01	02	ON
ii.	Safe application of chemical pesticides in Rabi vegetable crops (Tomato, brinjal, chili)	01	02	ON
iii.	Future prospects of edible mushroom cultivation for entrepreneurship development	01	02	ON
iv.	Income generation through an understanding of marketing strategy and marketing channel	01	02	ON
v.	Post-harvest management and its value addition of oyster mushroom	01	02	ON
vi.	Supporting profitability and technology options for women-owned enterprises involving members of SHGs	01	02	ON
vii.	Gowing of Acacia Sp. for profit	01	02	ON

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

Activity	Intervention	No.of beneficiary
Vegetable and fruit production	QPM of Brinjal, Tomato, Chilli, Cole crops, Papaya, banana sucker, drumsticks, capsicum	100
Cutting, Slips, Suckers	Sweet potato, Pineapple	50
Flower production	Marigold	20
Grafted Sapling	Mango, Custard Apple	50
Fruit Crop plantation	Ber,Guava, Mango, Papaya	50
HDPE Vermi Bed	Vermicompost production	20
Biocontrol products	Pheromone trap Tricho card Yellow sticky trap	50
Mushroom	Spawn (Paddy straw and Oyster) 1000 spawn	50
Duckery	Ducklings	20
Poultry	Banaraja, Rain Booster,Suneli 21 days old chicks	150

(F) METHOD DEMONSTRATIONS

Sl.No.	Title of method demonstrations	No. of Activity	No. of participants
1.	Azolla nursery management	1	20
2.	Seedling production in low-cost polytunnels	1	20
3.	Beekeeping	1	20
4.	Mushroom bed preparation in shed net house	2	50
5.	Use of Tricho card, pheromone trap, yellow sticky trap	2	50
6.	Seedling raising in Protray	1	20

(G) SOIL AND WATER TESTING

Activity	No. of Samples
Testing of Soil Samples and the issue of soil health cards	100

(H) PUBLICATION

Sl.No.	Title of publication	Type	No. of copies
1	Mushroom Spawn Production	Booklet	500
2	Improved package of practices of Cotton Cultivation	Booklet	500
3	Commercial mushroom production	Booklet	500
4.	Nutritional Garden for Nutrition security for farm families	Booklet	500
5.	Kharif Onion Cultivation	Booklet	500
6.	IPM in Cole crops	Booklet	500
7.	Backyard poultry rearing	Booklet	500
8.	Mahila Upojogi Unnata Krushi Jantrapati	Booklet	500

(I) EXPOSURE VISITS

Sl.No.	No. of visit	No of Participants
1	02	50

(J) Other Extension Activities

Sl. No.	Name of the Activity	No. of Activity	No. of participants
1.	Exposure visits	02	50
2.	Farmers fair	01	300
3.	Awareness Programme	05	150
4.	Group Discussion	06	150
5.	Method Demonstration	06	180
6.	Farmers' fair cum F-S interaction	03	150
7.	Field Day	07	350
8.	Publications	07	2100
9.	Success story	02	02

(J) **Agro-Service center:** For Developing an Agro-Service center at SCSP Village following Implements are required.

- Rotavator
- Paddy reaper
- Power tiller
- Power weeder
- Battery operated knapsack sprayer
- power operated sprayer
- Seed-cum-fertilizer drill

Sd/-
Sr. Scientist & Head
KVK,Boudh