



KRISHI VIGYAN KENDRA

**DHANBAD, BALIAPUR FARM-828201
(BIRSA AGRICULTURAL UNIVERSITY, RANCHI)**

(HEALTHY SOIL FOR A HEALTHY LIFE)

E-mail: kvkdhanbad@rediffmail.com



Annual Action Plan

YEAR- 2020-21

KRISHI VIGYAN KENDRA, DHANBAD

1. Name of the KVK: Dhanbad

Address	Telephone	E mail
Krishi Vigyan Kendra, Dhanbad Baliapur farm, Dhanbad-828201		kvkdhanbad@rediffmail.com kvkdhanbadbau.2012@gmail.com Website--www.kvkdhanbad.org.in

2.Name of host organization :

Address	Telephone	E mail
	Office	FAX
Birsa Agricultural University, Ranchi, Jharkhand.	0651-2450849	0651-2450525

3.Training programme to be organized (April 2019 to March 2020)

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Resource conservation	Nursery raising for SRI	02	01	Off campus	4.04.2020 09.04.2020	02	02	08	08	10	10	20	20	40
Management of Problematic soils	Reclamation of acidic soil	03	01	Off campus	12.04.2020 18.04.2020 25.04.2020	03	03	16	08	25	05	44	16	60
Resource conservation	System of root intensification in pigeon pea	03	02	Off campus	16.04.2020 22.04.2020 05.05.2020	06	-	24	-	30	-	60	-	60
Resource conservation	Importance of summer ploughing for crop production	02	01	Off campus	18.04.2020 10.05.2020	06	03	20	06	20	05	46	14	60
Seed Production	Seed production of Rice and its registration	02	02	ON campus	24.04.2020 16.05.2020	08	-	32	-	20	-	60	-	60
Integrated Disease Management	Important disease of Brinjal & its management	02	02	OFF campus	24.04.2020 28.05.2020	03	-	12	-	45	-	60	-	60
Household food security by kitchen gardening and nutrition gardening	Nutrition Gardening for Food & Nutrition Security	02	02	OFF campus	15-16.4.20 & 30.4.2020	0	10	0	20	0	10	0	40	40
Design and development of low/minimum	Multigrain flour preparation &	02	02	OFF campus	10-11.5.20 & 22.5.20	0	10	0	20	0	10	0	40	40

cost diet	Packaging													
Designing and development for high nutrient efficiency diet	Maize based balahar preparation	02	02	OFF campus	25-26.6.20 & 29.6.2020	0	10	0	20	0	10	0	40	40
Minimization of nutrient loss in processing	Ragi based laddu for snacks preparation	02	02	On campus	5-6.7.20 & 30.7.2020	0	10	0	20	0	10	0	40	40
Mobilization of social capital	Crop insurance scheme in Kharif	2	1	On	26.04.2020 23.05.2020	03	-	12	-	45	-	60	-	60
Resource conservation	SRI method of paddy cultivation	2	2	On	10.05.2020 27.05.2020	04	-	16	-	20	-	40	-	40
Entrepreneurial development of farmers	Marketing of agricultural produce	2	2	On	23.05.2020 31.05.2020	04	-	16	-	20	-	40	-	40
Production and use of organic inputs	Use of Rhizobium culture in pulses.	2	2	Off	03.06.2020 22.06.2020	04	-	16	-	20	-	40	-	40
WTO and IPR issues	Protection of plant variety Act & farmers Right	2	1	On	17.06.2020 26.06.2020	02	02	08	08	10	10	20	20	40
Repair and maintenance of farm machinery and implements	Proper use of spraying equipments with care and maintenance	02	03	Off/ On	15.04.2020 & 22.04.2020	06	04	06	04	30	10	42	18	60
Water management	Use and importance of water saving devices in vegetable	02	03	Off/ On	27.04.2020 & 15.05.2020	06	04	06	04	30	10	42	18	60
Repair and maintenance of farm machinery and implements	Use and importance of different tillage implements	02	01	Off/ On	06.05.2020 & 27.05.2020	06	04	06	04	30	10	42	18	60
Resource conservation	SRI method of paddy	02	03	ON campus	14.05.2020	06	03	18	03	24	06	48	12	60
Crop Diversification	Designing crops for the changing climate	02	03	ON campus	23.05.2020 01.06.2020	06	03	18	03	24	06	48	12	60
Seed Production	Seed production of Kharif pulses	02	02	ON campus	08.06.2020 21.06.2020	04	-	12	-	20	04	36	04	40
Integrated Pest Management	Integrated pest management in Paddy.	02	02	OFF campus	22.06.2020 15.07.2020	04	02	12	04	16	02	32	08	40
Gender mainstreaming through SHGs	Gender issues in Agriculture	2	3	On+off	26-27.8.20 & 30.8.2020	4	4	2	2	9	9	15	15	30
Storage loss	Storage	2	3	On+off	2-3.9.20	4	4	2	2	9	9	15	15	30

minimization techniques	practices of Onion & garlic				& 23.9.2020									
Enterprise development	Preparation Mushroom Pickles through SHGs for marketing	2	3	On+off	10-11.10.20 & 15.9.2020	4	4	2	2	9	9	15	15	30
Value addition	Value addition of Tomato	2	3	On+off	5-6.11.20 & 22.11.2020	4	4	2	2	9	9	15	15	30
Formation and Management of SHGs	Formation of Kisan club	2	2	Off	12.07.2020 05.08.2020	03	-	12	-	45	-	60	-	60
Vermi-compost production	Vermi compost production techniques	2	2	On	25.07.2020 22.08.2020	03	-	12	-	45	-	60	-	60
Formation and Management of SHGs	Formation and economic empowerment of SHG	2	2	On	09.08.2020 11.10.2020	02	-	08	-	30	-	40	-	40
Integrated Nutrient Management	Training on Waste decomposer	2	2	On	25.09.2020 25.10.2020	02	02	08	08	10	10	20	20	40
Goat rearing and fish farming	Goatry rearing and Fish farming	02	07	On Campus	23- 28.09.2020	12	-	08	-	10	10	30	10	40
Resource conservation	Rain water harvesting technique	02	01	Off / On	09.07.2020 & 24.07.2020	10	-	10	-	40	-	60	-	60
soil water conservation	Different technique for soil water conservation	02	01	Off / On	05.08.2020 & 09.08.2020	06	04	06	04	30	10	42	18	60
Income generation activities for empowerment of rural Women	Bag making from waste material	2	3	On + off	15-16.12.20 & 18.12.2020	4	4	2	2	9	9	15	15	30
Location specific drudgery reduction technologies	Women friendly drudgery reducing implements	2	3	On + off	15-16.1.2021 & 22.01.2021	4	4	2	2	9	9	15	15	30
Soil fertility management	Use of Rhizobium culture in Pulses	03	01	On Campus	03.02.2021 18.02.2021 04.03.2021	06	-	24	-	30	-	60	-	60
Seed Production	Seed production of Wheat	02	02	ON campus	07.10.2020 26.10.2020	02	-	08	-	30	-	40	-	40
Production and Management technology	Pruning in Horticulture crops	02	01	On campus	28.11.2020 05.12.2020	02	01	03	01	10	03	15	05	20
Rural Crafts	Flower Decoration	2	3	On + off	15-16.2.2021 & 12.2.2021	4	4	2	2	9	9	15	15	30
Women and	Introduction	2	3	On + off	5-6.3.2021	4	4	2	2	9	9	15	15	30

child care	of Balanced diet for Farmfamily				& 12.3.2021									
Disease and pest management	Disease and pest management in Cole crops.	02	02	ON campus	03.10.2020 14.11.2020	04	02	06	02	20	06	30	10	40
Mobilization of social capital	Crop insurance scheme in Rabi crops	2	2	On	10.10.2020 29.11.2020	06	02	04	02	20	06	30	10	40
Integrated Nutrient Management	Training on Waste decomposer	2	2	On	05.11.2020 30.11.2020	03	02	04	02	20	06	30	10	40
Water management	Irrigation management in wheat	02	01	ON campus	04.12.2020 & 12.12.2020	-	-	09	06	36	09	45	15	60
Integrated Disease Management	Disease & pest management in cucurbits	02	02	ON campus	19.12.2020 27.12.2020	04	02	06	02	20	06	30	10	40
Formation and Management of SHGs	Book-keeping, linking the Self Help Group with Bank	02	02	ON campus	07.01.2021 29.01.2021	04	02	06	02	20	06	30	10	40
Mobilization of social capital	Commodity exchange markets	02	02	On Campus	04.02.2021 02.03.2021	04	02	06	02	20	06	30	10	40
Value addition	Preparation of mushroom product	02	02	ON campus	26.02.2021	-	20	-	-	-	20	-	40	40
Water management	Proper irrigation methods for different crops	02	01	Off/ On	18.01.2021 & 24.01.2021	06	04	06	04	30	10	42	18	60
Post Harvest Technology	Grain storage method on house hold level	02	02	Off/ On	18.02.2021 & 25.02.2021	06	04	06	04	30	10	42	18	60
Use of Plastic in Farming practices	Importance and use of sprinkler and drip Irrigation system	02	02	Off/ On	22.03.2021 & 27.03.2021	06	04	06	04	30	10	42	18	60

(b) Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Seed Production	Farmers participatory rice seed production	02	02	ON campus	06.05.2020 11.05.2020	04	-	12	04	16	04	32	08	40
Seed Production	Farmers participatory wheat seed	02	02	On Campus	21.10.2020 26.10.2020	04	-	12	04	16	04	32	08	40

	production													
Production of organic inputs	Vermi Composting	02	02	ON campus	17.06.2020-22.06.2020	02	-	08	02	20	08	30	10	40
Mushroom Cultivation	Mushroom Cultivation & Value Addition	1	5	On	27-31.05.2020	4	4	2	2	9	9	15	15	30
Income generation	Income generation activities for empowerment of rural farm Women	1	5	On	15-19.07.2020	4	4	2	2	9	9	15	15	30
Repair and maintenance of farm machinery and implements	Repair and maintenance of different agricultural implements	01	07	On campus	14.10.2020-20.10.2020	05	-	05	-	10	-	10	-	20
Minimization of nutrient loss in processing	Minimization of nutrient loss in processing	1	5	On	8-12.09.2020	4	4	2	2	9	9	15	15	30
Mushroom Production	Production technique of Oyster mushroom	01	07	ON campus	21.10.2020-26.10.2020	05	-	05	-	10	-	10	-	20
Mushroom Production	Production technique of Buttan mushroom	01	07	ON campus	04.11.2020-09.11.2020	05	-	05	-	10	-	10	-	20
Mushroom Production	Production technique of Milky mushroom	01	07	ON campus	03.02.2021-08.02.2021 09.03.2021-14.03.2021	05	-	05	-	10	-	10	-	20
Mushroom Production	Production technique of Spawn of Mushroom	01	07	ON campus	16.12.2020-21.12.2020	05	-	05	-	10	-	10	-	20
Goatry rearing	Goatry rearing	01	07	On Campus	25.11.2020-30.11.2020	05	-	05	-	10	-	10	-	20
Post harvest Management	Post harvest Management, value addition & Marketing	1	5	On	25-29.11.2020	4	4	2	2	9	9	15	15	30
Household food security by kitchen gardening and nutrition gardening	Kitchen gardening through integrated pest management	02	02	ON campus	26.08.2020-27.08.2020	-	10	-	20	-	5	-	35	35
Design and development of low/minimum cost diet	Therapeutic diet	02	02	ON campus	03-04.12.2020	-	10	-	20	-	10	-	35	35
Value addition	Preparation of soybean products	02	02	ON campus	03-04.01.2021	-	10	-	20	-	10	-	35	35
Value addition	Value addition in Tomato products	02	02	ON campus	08-09.02.2021	-	10	-	20	-	10	-	35	35

Small Scale Industry	Candle & Chalk Making	1	5	On	25-29 .03 2021	4	4	2	2	9	9	15	15	30
Production of small tools and implements	Manufacturing of manually operated tubular maize Sheller	01	10	On campus	09.03.2021-18.03.2021	05	-	05	-	20	-	30	-	30
Integrated fish farming	Poultry and Fish farming	01	7	On Campus	05.07.2020-11.07.2020	12	-	08	-	10	10	30	10	40

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Diversification	Technology advances in production technology of scented and hybrid rice	01	02	ON campus	6-7.05.20	02	01	06	02	14	05	22	08	30
Use of plastic farming practices	Water management through sprinkler and drip irrigation system	01	02	On campus	14-15.10.20	02	02	05	03	10	05	20	10	30
Formation and Management of SHGs	Management of Self Help Groups	02	02	ON campus	17-18.06.20	02	02	08	02	18	06	30	10	40
Household food Nutrition security	Household food and nutrition security	1	3	on	12-14.06.2020	4	4	2	2	9	9	15	15	30
Women and Child care	Women and Child care	1	3	on	17-19.09.20	4	4	2	2	9	9	15	15	30
soil and water conservation	Different technique and importance of soil and water conservation	01	02	On campus	21-22.11.2020	02	02	05	03	10	05	20	10	30
Organic farming	Organic farming	01	02	ON campus	17-18.12.2020	02	01	04	01	09	03	15	05	20
Water management	Increase water use efficiency in field crops.	01	02	On campus	06-07.02.2021	03	02	06	03	11	05	20	10	30
Low cost and nutrient efficient diet designing	Low cost and nutrient efficient diet designing	1	3	on	4-6 .12.2021	4	4	2	2	9	9	15	15	30
Gender mainstreaming through SHGs	Gender mainstreaming through SHGs	1	3	on	4-6 Feb, 21	4	4	2	2	9	9	15	15	30

Abstract of Training: Consolidated table (ON and OFF Campus)
Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
I. Crop Production													
Weed Management													
Resource Conservation Technologies	6	84	16	100	12	5	17	34	11	45	168	32	200
Cropping Systems													
Crop Diversification	2	24	6	30	6	3	9	18	3	21	48	12	60
Integrated Farming													
Water management	8	136	29	165	22	11	33	31	11	42	189	51	240
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
TOTAL													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards	2	10	3	13	2	1	3	3	1	4	15	5	20
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	4	50	0	50	10	0	10	40	0	40	100	0	100
Soil and Water Conservation													
Integrated Nutrient Management	4	30	16	46	5	4	9	15	10	25	50	30	80
Production and use of organic inputs													
Management of Problematic soils	2	25	5	30	3	3	6	16	8	24	44	16	60
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)	2	10	10	20	12	-	12	8	-	8	30	10	40
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2	0	10	10	0	10	10	0	20	20	0	40	40
Design and development of low/minimum cost diet	2	0	10	10	0	5	5	0	5	5	0	30	30
Designing and development for high nutrient efficiency diet	2	0	5	5	0	5	5	0	20	20	0	35	35
Minimization of nutrient loss in processing	2	0	5	5	0	5	5	0	20	20	0	35	35
Gender mainstreaming through SHGs													
Storage loss minimization techniques	2	9	9	18	4	4	8	2	2	4	15	15	30

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Enterprise development													
Value addition	6	18	38	56	8	8	16	4	24	28	30	70	100
Income generation activities for empowerment of rural Women	2	9	9	18	4	4	8	2	2	4	15	15	30
Location specific drudgery reduction technologies	2	9	9	18	4	4	8	2	2	4	15	15	30
Rural Crafts	2	9	9	18	4	4	8	2	2	4	15	15	30
Capacity building													
Women and child care	2	9	9	18	4	4	8	2	2	4	15	15	30
Others, if any													
TOTAL													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices	02	30	10	40	06	04	10	06	04	10	42	18	60
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	6	90	30	120	18	12	30	18	12	30	126	54	180
Small scale processing and value addition													
Post Harvest Technology	2	30	10	40	6	4	10	6	4	10	42	18	60
Others, if any -Summer ploughing	2	20	5	25	6	3	9	20	6	26	46	14	60
TOTAL													
VII. Plant Protection													
Integrated Pest Management	5	36	8	44	8	4	12	18	6	24	62	18	80
Integrated Disease Management	5	65	6	71	7	2	9	18	2	20	90	10	100
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production	6	70	4	74	14	0	14	52	0	52	136	4	140
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production	2	45	-	45	3	-	3	12	-	12	60	-	60

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	2	9	9	18	4	4	8	2	2	4	15	15	30
Formation and Management of SHGs	6	95	6	101	9	2	11	26	2	28	130	10	140
Mobilization of social capital	6	60	12	72	14	4	18	26	4	30	100	20	120
Entrepreneurial development of farmers/youths													
WTO and IPR issues	2	10	10	20	02	02	04	08	08	16	20	20	40
Others, if any Crop Insurance Scheme	2	45	0	45	3	0	3	12	0	12	60	0	60
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	102	1037	308	1345	200	121	321	403	193	596	1678	642	2320

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	4	32	8	40	8	0	8	24	8	32	64	16	80
Bee-keeping													
Integrated farming													
Seed production	4	32	8	40	8	0	8	24	8	32	64	16	80
Production of organic inputs	2	20	8	28	2	0	2	8	2	10	30	10	40
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	10	0	10	5	0	5	5	0	5	20	0	20
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	2	-	20	20	-	10	10	-	10	10	-	40	40

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of quality animal products													
Dairying													
Sheep and goat rearing	1	10	0	10	5	0	5	5	0	5	20	0	20
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1	10	0	10	5	0	5	5	0	5	20	0	20
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching	1	9	9	18	4	4	8	2	2	4	15	15	30
Rural Crafts													
Enterprise development	1	9	9	18	4	4	8	2	2	4	15	15	30
Others if any (Production of small tools and impliments agriculture)	1	10	0	10	5	0	5	5	0	5	20	0	20
TOTAL	18	142	62	204	46	18	64	80	32	112	268	11	380

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	23	8	31	4	2	6	10	3	13	37	13	50
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs	2	18	6	24	2	0	2	8	2	10	30	10	40
Group Dynamics and farmers organization													

Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security	2	18	18	36	8	8	16	4	4	8	30	30	60
Women and Child care													
Low cost and nutrient efficient diet designing	1	9	9	18	4	4	8	2	2	4	15	15	30
Production and use of organic inputs	1	9	3	12	2	1	3	4	1	5	15	5	20
Gender mainstreaming through SHGs	1	9	9	18	4	4	8	2	2	4	15	15	30
Crop intensification	1	10	5	15	2	2	4	5	3	8	20	10	30
Others if any Use of plastic in Farming	1	10	5	15	2	2	4	5	3	8	20	10	30
TOTAL	11	106	63	169	28	23	51	40	20	60	182	108	290

4. Frontline demonstration to be conducted*

Crop: Paddy

Thrust Area: Yield improvement in Paddy crop

Thematic Area: Crop Production

Season: Kharif

Farming Situation: Rain-fed, Medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
01	Paddy IR-64 (D)	10 ha	Variety + + Seed treatment + Line Sowing + Plant protection measures	Yield	Seed & plant protection measures	26500	22500	05	05	05	05	15	10	25	20	45

Extension and Training activities under FLD:

Extension and Training activities under T25:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Kisan Gosthi	Kisan Gosthi	01	PF	01	Off	05	05	05	05	15	05	25	15	40
Training	Different steps for enhance paddy production	02	PF	01	On/Off	10	10	10	10	30	10	50	30	80
Field Day	Dhan Utapadan par Prashetra Diwas	01	PF	01	Off	05	05	05	05	15	05	25	15	40

Crop: Ragi

Thrust Area: Yield improvement in Ragi crop

Thematic Area: Crop Production

Season: Kharif

Farming Situation: Rainfed, Upland

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
01	Ragi A -404	02	Variety + + Seed treatment + Line Sowing + Plant protection measures	Yield	Seed, Plant protection measures	19500	17500	02	01	02	01	02	0 2	06	04	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Kisan Gosthi	Kisan Gosthi	01	PF	01	Off	05	05	05	05	15	05	25	15	40
Training	Different steps for enhance Ragi production	02	PF	01	On/Off	10	10	10	10	30	10	50	30	80
Field Day	Marhua Prashetra Diwas	01	PF	01	Off	05	05	05	05	15	05	25	15	40

Crop: Vegetable

Thrust Area: Yield improvement in Vegetable crop

Thematic Area: Yield increment in Vegetable crop

Season: Kharif/ Rabi

Farming Situation: Irrigated, Upland

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
01	Potato Kufri Chipsona	01 ha	Variety + + Seed treatment + Paired Row Sowing + Plant protection measures	Yield	Seed, Plant protection measures	72500	62500	02	01	02	01	02	02	06	04	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Kisan Gosthi	Kisan Gosthi	01	PF	01	Off	05	05	05	05	15	05	25	15	40
Training	Different steps for enhance Potato production	02	PF	01	On/Off	10	10	10	10	30	10	50	30	80
Field Day	Aloo Ki Kheti Prashetra Diwas	01	PF	01	Off	05	05	05	05	15	05	25	15	40

Crop: Small Agricultural Implements
Thrust Area: Promotion of small Agricultural Implements
Thematic Area: Drudgery Reduction
Season: Kharif/ Rabi
Farming Situation:

Sl. No	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
01	Hand Maize Sheller	50	Implements for drudgery reduction	Output (Kg/hr/Person)	Hand Maize Sheller	5000	-	05	05	05	05	15	15	25	25	50
02	Improved Sickle	50	Implements for drudgery reduction	Output (Area/hr/Person)	Improved Sickle	6000	-	05	05	05	05	15	15	25	25	50

Extension and Training activities under FLD:

Extension and Training activities under F&ED														
Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Kisan Gosthi	Kisan Gosthi	01	PF	01	Off	05	05	05	05	15	05	25	15	40

Crop: Mushroom Cultivation and Nutritional garden
Thrust Area: Mushroom for livelihood security
Thematic Area: Mushroom Production and Nutritional security
Season: Kharif/ Rabi

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Mushroom Cultivation	0.5	Method demonstration of production techniques of spawning/ bagging	Yield/disease infestation/ shelf life/	Chemicals, Spawn pkts, PP bag	5,000.00	1,500.00	2	2	2	2	2	2	6	6	12
2.	Nutri-garden	0.5 ha	Layout of Nutri garden by following crop rotation	Yield/consumption pattern of in terms of nutrition thru daily diet of the farm family	Improved quality of vegetables seed ,fruits, organic manure, throughout year	10,000	2500.00	2	2	2	2	2	2	6	6	12

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Kisan Gosthi	Kisan Gosthi	02	PF	01	Off	05	05	05	05	15	05	25	15	40
Training	Mushroom Production	2	RY	5	On	05	05	05	05	15	05	25	15	40
Field Day	Nutritional security	1	PF	1	Off	05	05	05	05	15	05	25	15	40

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

5. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the Crop / Enterprise	Variety / Type	Period From..... to	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Rajendra Mansoori	July 2020 –Dec. 2020	1.5	F/S	60	1,25,000	2,64,000	1,39,000
Paddy	IR64D	July 2020 –Dec. 2020	1.0	F/S	30	58,000	1,32,000	74,000
Arhar	ND-2	June-2020 – March 2021	0.4	F/S	5	28,500	72,500	44,000
Wheat	K1006	Nov.2020– March 2021	0.4	F/S	10	22,000	42,000	20,000
Mustard	Pusa-26	Oct. 2020 –Feb. 2020	0.8	F/S	7	15,760	65,100	49,340

b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From..... to	Area (ha.)	No. of farmers	Details of Production				
					Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	IR64DRT MTU-7029	Kharif 2020 to Rabi 2020	105	125	C/S	3150	26,25000	72,45000	46,20000

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	8	120	30	150	25	15	5	20	135	35	170
2.	Kisan Mela	4	950	350	1300	20	25	15	40	975	365	1340
3.	Kisan Ghosthi	10	225	75	300	30	18	12	30	243	87	330
4.	Exhibition	5	450	175	625	25	25	10	35	475	185	660
5.	Film Show	150	1250	250	1500	25	15	15	30	1265	265	1530
6.	Method Demonstrations	10	100	25	125	15	10	5	15	115	30	145
7.	Farmers Seminar	5	175	50	225	25	25	15	40	200	65	265
8.	Workshop	5	200	50	250	20	30	10	40	230	60	290
9.	Group meetings	10	50	200	250	30	5	2	7	55	202	257
10.	Lectures delivered as resource persons	150	1750	350	2100	30	35	15	50	1785	365	2150
11.	Advisory Services	1200	2250	450	2700	25	45	15	60	2295	465	2760
12.	Scientific visit to farmers field	180	1850	350	2200	25	15	10	25	1865	360	2225
13.	Farmers visit to KVK	1500	1200	300	1500	30	-	-	-	1200	300	1500
14.	Diagnostic visits	1680	1500	350	1850	30	-	-	-	1500	350	1850
15.	Exposure visits	15	180	120	300	25	15	10	25	195	130	225
16.	Ex-trainees Sammelan	1	75	25	90	25	10	5	25	75	30	105
17.	Soil health Camp	5	125	25	150	25	10	5	15	135	30	165
18.	Animal Health Camp	-	-	-	-	-	-	-	-	-	-	-
19.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
20.	Soil test campaigns	5	300	150	450	35	15	5	20	315	155	470
21.	Farm Science Club Conveners meet	3	30	10	40	25	5	-	5	35	15	50
22.	Self Help Group Conveners meetings	5	10	40	50	25	5	-	5	15	40	65
23.	MahilaMandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
24.	Celebration of important days (specify)	5	350	150	500	20	15	10	25	365	160	525
25.	Sankalp Se Siddhi	1	75	50	125	25	15	5	20	90	55	145
26.	Swatchta Hi Sewa	4	100	50	150	25	15	5	20	115	55	170
27.	Mahila Kisan Diwas	2	-	100	100	15	5	5	10	5	105	110
28.	Any Other (Specify)	0	0	0	0	0	0	0	0	0	0	0
	Total	4963	13315	3725	17030	600	373	179	552	13683	3909	17592

7. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
1295289		

8. Expected fund from other sources and its proposed utilization

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

9. On-farm trials to be conducted*

OFT -1.

- i. **Season:** Rabi/ Kharif
 - ii. **Title of the OFT:** Assessment of different value addition technologies of Jackfruit for income generation
 - iii. **Thematic Area:** Value Addition
 - iv. **Problem diagnosed:** Wastage of Jackfruits during peak season
 - v. **Important Cause:** Lack of awareness of Nutrition value of locally available Jackfruits
 - vi. **Production system:** Rain-fed medium land
 - vii. **Micro farming system:**
 - viii. **Technology for Testing:** Different value added products of jackfruits in farmfamily for income generation
 - ix. **Existing Practice:** Fresh used as vegetables/fruits/pickle Making
 - x. **Hypothesis:** Value addition of Jackfruits may increases the income of farmers/farmfamily
 - xi. **Objective(s):** To increase income by value addition of locally available under utilized fruits, i.e. jackfruit
 - xii. **Treatments:**

Farmers Practice (FP):	Fresh used as vegetables/fruits/pickle Making
Technology option-I (TO-I):	Preparation of Pickles
Technology option-II (TO-II):	Preparation of Jackseed burfi
Technology option-III (TO-III):	Preparation of Jackfruit chips
- Critical Inputs :** Spices, Preservatives and other ingredients like essence, cardamom powder , packaging materials etc
- xiii. **Unit Size:** 10kg
 - xiv. **No of Replications:** 10
 - xv. **Unit Cost:** 1,000.00
 - xvi. **Total Cost:** 10,000.00
 - xvii. **Monitoring Indicator:**
 - (i) Acceptability test
 - (ii) Product Recovery/Yield
 - (iii) Cost Benefit Ratio
 - (iv) Shelf Life
 - xviii. **Source of Technology** Home Science Department, BAU, Ranchi & Technical Bulletin No. 41, ICAR, Goa.
 - xix. **Co-ordinating Scientist :** Dr.(Mrs.) Seema Singh & Dr.(Mrs.) Rekha Sinha

OFT -2

- i. **Season:** Kharif
- ii. **Title of the OFT:** Value Addition of Potatoes for enhancing Farmers income through SHGs
- iii. **Thematic Area:** Value Addition
- iv. **Problem diagnosed:** Low market price at peak season of potato production
- v. **Important Cause:** Lack of knowledge of scientific method of chips preparation and marketing
- vi. **Production system:** Rain-fed medium land
- vii. **Micro farming system:**
- viii. **Technology for Testing:** Chips making of improved variety i.e. Kufri chipsona & Kufri lalima
- Existing Practice:** Fresh used as vegetables
- ix. **Hypothesis:** Potato chips making enhances income of farmers through SHGs
- x. **Objective(s):** To increase income of farmers by value addition.
- xi. **Treatments:**
- Farmers Practice (FP):** Potato Chips for household consumption red potato by unscientific method
- Technology option-I: Potato chips of improved varieties i.e. Kufri lalima
- Technology option-II: Potato chips of improved varieties i.e. Kufri chipsona
- Critical Inputs: :** Spices, Preservatives & packaging materials etc
- xii. **Unit Size:** 10 kg
- xiii. **No of Replications:** 10
- xiv. **Unit Cost:** Rs. 1,000.00
- xv. **Total Cost:** Rs.10,00.00
- xvi. **Monitoring Indicator:** (i) Acceptability test
(ii) Product Recovery/Yield
(iii) Cost Benefit Ratio
(iv) Shelf Life
- xvii. **Source of Technology (please specify):** Central Potato research Institute, Shimla
- xviii. **Co-ordinating Scientist :** Dr.(Mrs.) Seema Singh & Mrs. Kiran M. Kandeer

OFT -3

- i. **Season:** Kharif
- ii. **Title of the OFT:** Efficacy of Establishment Methods on Productivity and Profitability in Rice (IR64Drt1)
- iii. **Thematic Area:** Resource Conservation Technology
- iv. **Problem diagnosed:** High production cost & labour crisis during transplanting of rice
- v. **Important Cause:** Lack of knowledge and unavailability of implements
- vi. **Production system:** Rice – Pulse - fallow
- vii. **Micro farming system:** Rain-fed medium land
- viii. **Technology for Testing:** Suitability of direct seeded implements for rice
Existing Practice: Transplanting
- ix. **Hypothesis:** Use of direct seeded implements for rice may enhance the productivity and profitability in rice
- x. **Objective(s):** Enhance the productivity and profitability in rice production
- xi. **Treatments:**
 - Farmers Practice (FP) : Transplanting
 - Technology option-I : Sowing of dry seeded rice by zero till seed cum fertilizer drill
 - Technology option-II : Sowing of sprouted seed by drum seeder after puddling
- xii. **Critical Inputs:** Implements for use, Seed, Fertilizer
- xiii. **Unit Size:** 1000 sq. m.
- xiv. **No of Replications:** 10
- xv. **Unit Cost:** Rs.1,000.00
- xvi. **Total Cost:** Rs.10,000.00
- xvii. **Monitoring Indicator:**
 - No. of weeds / m²
 - No. of effective tiller / m²
 - Length of the panicle (cm)
 - Wt. of 1000grain (gm)
 - Yield (Q/ha)
 - B:C Ratio
- xviii. **Source of Technology :** Department of Agril. Engg., BAU, Ranchi
- xix. **Co-ordinating Scientist :** Dr. Rajeev Kumar, Dr. M.S. Yadav and Dr. D.K. Russia

OFT -4

- i. **Season:** **Rabi**
- ii. **Title of the OFT:** Performance Evaluation Of Drip Irrigation With Mulch In Tomato
- iii. **Thematic Area:** Natural Resource Management.
- iv. **diagnosed:** Low production of tomato due to irrigation water crisis
- v. **Important Cause:** Improper method of irrigation leads low productivity and high cost of cultivation of tomato.
- vi. **Production system:** Pulse – Vegetable - Vegetable
- vii. **Micro farming system:** Upland, Irrigated
- viii. **Technology for Testing:** Irrigation practices through drip system with mulch
- ix. **Existing Practice:** Furrow Irrigation
- ix. **Hypothesis:** Use of Drip irrigation system with mulch may reduce the water requirement in tomato cultivation and increase in yield of crop
- x. **Objective(s):** Enhancing the production of tomato with less irrigation water
- xi. **Treatments:**
- Farmers Practice (FP) : Furrow irrigation without mulch.
- Technology option-I : Drip Irrigation in paired row without mulch.
- Technology option-II : Drip irrigation in paired row with plastic (Silver- Black) mulch
- xii. **Critical Inputs:** Tomato Seed, Fertilizer and plastic mulch
- xii. **Unit Size:** 500 sq. m.
- xiii. **No of Replications:** 10
- xiv. **Unit Cost:** Rs. 5,000/-
- xv. **Total Cost:** Rs. 50,000/-
- xvi. **Monitoring Indicator:** i. No. of branches/plant
ii. Field Water use efficiency (Kg/ha/cm)
iii. Yield (q/ha)
iv. B:C Ratio
- xvii. **Source of Technology** : Department of Agril. Engg. BAU Ranchi
- xviii. **Co-ordinating Scientist** : Dr. Rajeev Kumar and Dr. D.K. Russia

OFT- 5

i. Season:	Kharif/Rabi
ii. Title of the OFT:	Content Analysis of the Farmers friendly print literature.
iii. Thematic Area:	Capacity Building
iv. Problem diagnosed:	Low readership among farmers
v. Important Cause:	Due to unavailability of print literature cause low yield
vi. Production system:	Rice - fellow -fellow
vii. Micro farming system:	Rain-fed medium.
viii. Technology for Testing:	
Existing Practice:	There is no use of print literature in agriculture
ix. Hypothesis:	Use of farmers friendly literature may increase knowledge of farmers
x. Objective(s):	To develop reading habit among farmers
xi. Treatments:	
Farmers Practice (FP)	: Low reading habit of extension literature
Technology option-I	: Print Literature provided by KVK in local language
Technology option-II	: Print Literature provided by Krishi Vigyan Kendra
xii Critical Inputs	: Printed Extension literature
Unit Size:	: 120 farmers
xiii No of Replications:	10
xiv Unit Cost:	Rs. 1,000/-
xv. Total Cost:	Rs. 10,000/-
xvi. Monitoring Indicator	i-Content of the literature . ii- Format of the literature iii- Level of knowledge gained iv- Extent of increase in readership v- Extent of adoption of farmers practices vi- Farmers feedback vii- Scientist feedback
xvii. Source of Technology	: Department of Agriculture Extension, BAU Ranchi
xviii. Co-ordinating Scientist	: Dr. Adarsh Srivastava And Dr. Niva Bada

OFT 6

- i. **Season:** **Kharif**
- ii. **Title of the OFT:** Study the effectiveness of different training tools after combining on yield of Rice
- iii. **Thematic Area:** Human Resource Management
- iv. **Problem diagnosed:** Lack of knowledge of farmers not adopted appropriate rice technology resulting reducing yield and income.
- v. **Important Cause:** Lack of training tools leads to poor yield of rice
- vi. **Production system:** Rice-fellow- fellow
- vii. **Micro farming system:** Rain-fed medium.
- viii. **Technology for Testing:** Testing different combination of training tools
Existing Practice: Farmers not acquire knowledge for cultivation of rice.
- ix. **Hypothesis:** : Use of different training tools may increase rice production
- x. **Objective(s):** : To test suitable training tools for enhancing rice production
- xi. **Treatments:**
Farmers Practice (FP): None exposure
Technology option-I : One day training organised at farmers field on package & practices of rice.
Technology option-II : One day training organised at KVK supported with literature + exposure visit on successful rice grower farm + Demonstration
Critical Inputs: Training, Printed Extension literature
Unit Size: 4 group
- xii. **No of Replications:** **10**
- xiii. **Unit Cost:** **Rs. 1,000/-**
- xiv. **Total Cost:** **Rs. 10,000/-**
- xv. **Monitoring Indicator** i. Level of Knowledge before & after
ii. Level of adoption on different components of rice production technology
ii Yield & B/C ratio
- xvi. **Source of Technology :** Department of Extension Extension, BAU Ranchi
- xvii. **Co-ordinating Scientist :** **Dr. Adarsh Srivastava And Dr. Niva Bada**

OFT -7

- i. **Season:** **Rabi**
- ii. **Title of the OFT –** **Management of Chilli Leaf Curl Disease in Kharif Season**
- iii. **Thematic Area:** Disease Management
- iv. **Problem diagnosed:** (i) More infestation of leaf curl disease
(ii) Less market Value
- v. **Important Cause:** Predominance of disease in the district
- vi. **Production system:** Vegetables-Pulse
- vii. **Micro farming system:** Rain-fed
- viii. **Technology for Testing:** Suitable insecticide for leaf curl disease management for chilli
Existing Practice: Spraying of Rogar @ 2ml/l
- ix. **Hypothesis:** Spray of chemical may control leaf curl in chillies
- x. **Objective(s):**
- xi. **Treatments:**
Farmers Practice (FP) : Spraying of Rogar @ 2 ml/l of water after disease incidence
Technology option-I : Two Spray of Imidacloprid 17.8 SL @ 1 ml/ 3 litre of water at 10 days intervals .
Technology option-II : Two Spray of Acetamiprid 20% SP @ 1 gm/lit of water at 10 days of intervals.
Critical Inputs: Seed, bio agent, plant Extract, oil
Unit Size: 500² M
- xii. **No of Replications:** **10**
- xiii. **Unit Cost:** **Rs. 1000**
- xiv. **Total Cost:** **Rs. 10000**
- xv. **Monitoring Indicator**
1. Disease incidence (number of infested plants and % infestation) 3. Per cent increase in yield.
2. Plant Height(cm)
3. No. of Branches/plant
4. No. of fruits/plant
5. weight of fruits (10 or 1200 fruit weight)
6. Yield/plant/plot and /ha (green fruit)
7. Early yield(first two picking)
Economic parameter:
1. Gross Income
2. Net Income
3. B:C Ratio
- xvi. **Source of Technology** : Department of A Plant Pathology, BAU Ranchi
- xvii. **Co-ordinating Scientist** : **Dr. Navin Kumar and Dr. Anil Kumar**

OFT -8

- i. **Season:** Rabi/ Kharif
- ii. **Title of the OFT –** Yield Performance Of Oyster Mushroom by Different Supplements.
- iii. **Thematic Area:** Mushroom Cultivation
- iv. **Problem diagnosed :** Low yield of Oyster mushroom.
- v. **Important Cause:** Low yield of Oyster mushroom
- vi. **Production system:** Rice –fellow- fellow
- vii. **Micro farming system:** Rain-fed medium
- viii. **Technology for Testing:** Effect of chickpea dal powder in mushroom production
- ix. **Existing Practice:** No use of chickpea dal powder
- ix. **Hypothesis:** Use of chickpea dal powder may increase yield of Mushroom
- x. **Objective(s):**
- xi. **Treatments:**
Farmers Practice (FP): Only use Spawn and Paddy straw.
Technology option-I: Paddy straw + good quality of Chickpea dal powder + Spawn
Technology option-II : Wheat straw + Spawn
- Critical Inputs:** Spawn, supplements, and Chemicals.
- Unit Size:**
- xii. **No of Replications:** 10
- xiii. **Unit Cost:** Rs.500.00
- xiv. **Total Cost:** 5,00/-
- xv. **Monitoring Indicator :** 1. Spawn run period
2. Days required to first harvest.
3. No of flushes
4. Yield per bag (gm.)
- xvi. **Source of Technology** : Department of Plant Pathology, BAU Ranchi /RAU, Pusa
- xvii. **Co-ordinating Scientist** : Dr. Navin Kumar and Dr. Seema Singh

9. ON FARM TRIAL

1. TITLE: ASSESSMENT OF DIFFERENT COMMUNICATION CHANNEL FOR ADOPTION OF SOIL HEALTH CARD IN DHANBAD DISTRICT OF JHARKHAND.

2. Problem identified: Farmers are not using soil health card for fertilizers application.

3. Details of technologies selected for assessment/ refinement:

Technological option 1: Recommendation of Fertilizer application according to soil health Card through verbal communication.

Technological option 2: Recommendation of fertilizer application according to Soil Health Card through SMS.

Technological option 3: Recommendation of fertilizer application according to soil Health Card Printing material and Group meeting.

4. Source of technology : ICAR, New Delhi

5. Production system & Thematic area : Rainfed upland & fertilizer management.

6. Replication : 30 Farmers form each group.

7. Process of farmers participation and their reaction:

- Only those farmers selection for study who received soil health card by department of Agriculture, Govt. of Jharkhand

8. Performance of Technology with Performance indicator:

- i) Adoption
- ii) Knowledge.
- iii) Attitude related to soil Health Card.

9. Co-ordinating Scientist : PI- L.K. Das,

10. ON FARM TRIAL

1. TITLE : NATURE AND EFFECTIVENESS OF EXTENSION SERVICES PROVIDED BY DIFFERENT GROUP OF KISAN CLUB .

2. Problem identified: Extension services not provided effectively and timely by the organization .

3. Details of technologies selected for assessment/ refinement:

Technological option 1: First group of respondents – farmers who are not associated with Kisan Club .

Technological option 2: Second group of respondents- Farmers who are actively associated with Kisan Club formed by KVK.

Technological option 3: Third group of respondents- farmers who are actively associated with kisan club formed by NABARD with the help of NGOs.

4. Source of technology : Indian Journal of Extension Education. (IARI, New Delhi)

5. Production system & Thematic Area : Methods of Extension system.

6. Replication : 30 Farmers selected as a respondents from each group.

7. Process of farmers participation and their reaction :

➤ Group feeling among villagers

8. Performance of Technology with Performance indicator:

- i) Dynamics of groups formed.
- ii) Build up group sprit & Social capital.
- iii) Initiation of group farming.

9. Co-ordinating Scientist : PI- L.K. Das,

10. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1.	Mushroom Cultivation for Food & Nutrition Security.	50,000.00
2.	Promotion of Local food through healthy diets	25,000.00
3.	Farm Mechanization for Drudgery reduction	50,000.00
4.	Organic farming	30,000.00
5.	Soil Health Management	40,000.00

10 No. of success stories proposed to be developed with their tentative titles-5

1. Drip irrigation boon for chill income enhancement
2. Watermelon cultivation – a means of doubling income
3. Mushroom cultivation –ek safalta ki kahani
4. Entrepreneurship development through food processing and value addition among SHG
5. Nutritional gardening for food and nutritional security in Dhanbad district

Scientific Advisory Committee

Date of SAC meeting held during 2019-20	Proposed date during 2020-21
04.10.2019	05.02.2021

11. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	500	75	-	75	-	350	-	500	-	500	25	1250
Water Samples												
Other (Please specify)												
Total	500	75	-	75	-	350	-	500	-	500	25	1250

12. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2020	Expected fund requirement (Rs.)
A Salary		
1. Pay & Allowances	8212862.00	90,00000.00
Total		90,00000.00
B (General) Recurring		
1. TA	1,50,000	1,50,000.00
2. HRD	30,000	50,000
3. Contingency		
a. Stationary, telephone, postage, electricity & other office charges.	5,12,037	5,65,000
POL, repair of vehicle, tractor & equipment.		
b. Training of farmers	2,26,135	2,50,000
c. Training materials		1,00,000
d. Training of extension functionaries Training of Rural Youth		50,000
		1,00,000
e. FLD (other than oilseed & pulses)	3200	50,000
f. On farm testing	25,000	80,000.00
g. Soil water testing lab		50,000.00
h. Maintenance of Building	20,000	50,000.00
i. Extension Activities, Kisan Mela, Exhibition etc		50,000.00
j. TSP Programme		5,00,000
Total B	8,96,372	19,95,000.00
B. Non Recurring		
Vehicle		10,000.00
Equipment & Furniture		3,50,000.00
Library		10,000
Total C	-	13,60,000.00
Grand Total (A+B+C)	91,59234.00	1,34,55,000.00

13. * Any additional requirement may be suitably justified.

Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with fac