Proposed Action Plan (2021-22)

OPERATIONAL AREAS DETAILS PROPOSED

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)
6.1	Paddy (Basmati 370)	• Lodging of paddy • Weedy rice • Lack of labour • Poor nutrient management.	28000 ha	• R. S.Pura (Suchetgargh /Badyal brahmna, Selahr) • Bishnah (Deoli)	1. Management of weeds(OFT) 2. Direct seeded rice/ drum seeder (FLD/OFT) 3. FLD's on pure Basmati 370 seed. 4. Balanced fertilizer dose for paddy. (OFT) 5. Training

OPERATIONAL AREAS DETAILS PROPOSED Contd..

6.2	Paddy (Non-Basmati)	• Lack of new high yielding varieties. • IPM and INM in paddy.	8000 ha	• Bishnah • Marh	1. Introduction of new and high yielding varieties of Paddy. (OFT/FLD) 2. Balanced fertilizer dose for paddy. (FLD) 3. Trials on disease management.
6.3	Wheat	• Lack of new high yielding varieties. • Problem of yellow rust and smut diseases • Lack of proper weed Management.	10000 ha	• R.S.pura • Marh • Balwal	1. Introd. & evalu. of new varieties. OFT/FLD. 2. Use of zinc in wheat (FLD) 3. Management of Yellow rust in wheat (OFT/FLD) 4. Weed management in Wheat (OFT).

OPERATIONAL AREAS DETAILS PROPOSED Contd..

6.4	Maize	• Lack of composite varieties. • Lodging in maize, • Disease and pest Management.	5000 ha	• Marh • Nagrota • Dansal • Bhalwal	1. Promotion of CompositeVarieties. (FLD) 2. Promotion of maize for fodder (FLD) 3. Disease/pest Management. (OFT) 4. Training Programmes and extension activities
6.5	Pulses	• Lack of weed Management. • Poor knowledge on pest management. • Lack of new varieties.	2000 ha	• R.S.pura • Bishnah • Bhalwal • Dansal	1. Weed Management in Pulses. (OFT) 2. Demonstrations on High yielding Varieties. (cluster FLD.s) 3. Trials and demonstration on biofertilisers/pheromone traps. 4. Management of gram pod borer (OFT) 5. Training Programmes and extension activities

OPERATIONAL AREAS DETAILS PROPOSED Contd..

6.6	Oilseed	• Lack of new varieties	2000	• Bishnah • Marh • R S Pura	1. Promotion of University Varieties. (FLD) 2. Introduction of Canola. (OFT) 3. Insect Management in Oilseed (FLD)
6.7	Fodder	• High fodder requirement. • High cost and transportation of Fodder. • Lack of Fodder Varieties,	10000	• R.S.pura • Bishnah • Dansal • Ahnoor	1. Introduction of Bajra and Oats varieties. (OFT) 2. Promotion of Hybrid Napier and setaria grasses (FLD) 3. Increasing knowledge on Fodder banks and tree fodder. (Trainings/FLDs)

OPERATIONAL AREAS DETAILS PROPOSED Contd..

6.8	Medicinal Plants	• Low yields in Traditional plants. • Poor marketing . • Lack of processing	-	• Bhalwal • Dansal	1. Promotion and spread of high yielding strains. (FLD) 2. Formation of SHG/FPO. 3. Value addition of Harad.
6.9	Marigold	• Lack of commercial varieties. • Poor disease managemet. • Lack of Marketing avenues.	100	• R.S.pura • Marh • Bishnah	1. Promotion of Pusa varieties. 2. IPM in Marigold (OFT) 3. Formation of SHG/FPO.

OPERATIONAL AREAS DETAILS PROPOSED Contd..

6.10	Mushroom	• Price fluctuation. • Disease Managemnt • Round the year mushroom cultivation.	-	• R.S.pura • Marh	1. Value addition in mushrooms to avoid glut. 2. IDM in Mushroom (OFT) 3. Round the year Mushroom cultivation. (Skill Trainings).
6.11	Dairy	• Low Milk Yields. • Low fat percentage • Poor feed managent. • Poor animal Health	-	• R.S.pura • Bishnah • Mandal	1. Proper health and hygiene for animals (trainings and demos) 2. Proper feed preparation (training and FLD) 3. Use of UMMB (FLD) 4. Setting up of Milk collection centers and developing SHGs.

Villages to be covered during 2021-22

Bishnah-,
Saidgarh, Deoli,
Dabbar, Batyari,

R.S.Pura-
Jindermelu, Kloen,
Balachak,

Marh- Pandorian,
Phlain Mandal

Dansal: Kathar

Bhalwal:
Jandiyal,
Thathi

Akhnoor-
Garkhal, Jandiyal
Sungal,

Nagrota: Kattal
Battal, Bajalta,

TECHNOLOGY ASSESSMENT DURING 2021-22

Agroforestry

Trial 1: Assessment of superior varieties of Harad under sub-tropical rainfed condition for different growth and yield characteristics

Problem identified: Lack of quality planting material

T1: Local selection (Farmer Practice)

T2: Raj Harad

T3: Kalar

Source of technology: SKUAST-J

Trial 2: Evaluation of different varieties of Berseem for growth and yield parameters

Problem identified: Lack of high yielding variety

T1: Mascavi

T2: Vardhan

T3: BL-10

Source of technology: SKUAST-J, /PAU

Plant Breeding

Trial 1: Evaluation of different varieties of Basmati for growth and yield characteristics

Problem identified: Low production

T1: Basmati 1121 (Farmer Practice)
T2: Pusa 1728

T3: Pusa 1509
Source of technology: SKUAST-J

Trial 2: Evaluation of different varieties of WHEAT for growth and yield parameters
Problem identified: Lack of high yielding variety
T1: WH 1080
T2:JAUW 672
T3: JAUW 598
Source of technology: SKUAST-J, /PAU

Horticulture

Trial 1: Evaluation of suitable varieties of Radish

Problem identified ; Lack of suitable varieties

T_1 = Farmers practice

T_2 = Japanese White

T_3 = Pusa Himani

Trial 2: Evaluation of beetroot varieties

Problem identified ; Lack of suitable varieties

T_1 = Farmers practice

T_2 = Crimson Globe

T_3 = Detroit Dark Red

Fisheries

Trial 1: Assessment of pelleted feed on growth and production of fish

Problem Identified: Imbalanced nutrition in fish culture

T1: Mustard oil cake, Rice bran, home left etc. without any ratio (Farmer practice)

T2: 50:50 Mustard oil cake and rice bran after soaking overnight (Recommended Practice)

T3: Pelleted feed @ 3-5% of fish body weight

Trial 2: Augmentation of Fish production by use of Zeolite in fish pond

Problem Identified: Low production of fish due to poor condition of water

T1: Addition of water which is lost due to evaporation & seepage (Farmer practice)

T2: Recommended Practice (20 to 30 % replacement of water)

T3: Application of zeolite @300 kg/ha

PLANT PROTECTION

Trial 1: Management of Sheath Blight in Basmati 370

Problem Identified: Low Production due to disease

T1: Farmer practice (Spray of Carbendazim @ 1gm/lt)

T2: Three sprays of Propiconazole @ 2ml/lt (Recommended Practice)

T3: Three sprays of Thifluzamide @ 1 ml/lt

T4: Three sprays of Trifloxystrobin + Tebuconazole @ 0.5 ml/lt

FRONTLINE DEMONSTRATIONS DURING 2021-22

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	No. of Demo (area in ha)
Cereals	Paddy	Mixed seed of Basmati 370 Short deration maturity	Pure seed Pusa Basmati	Variety	Basmat-370 Pusa 1509 Pusa 1637	SKUAST-J	5.0 4.0
	Maize	Lack of superior hyrids	SCH	Hybrid	Double dekalb/ 9144.	SKUAST-J	5.0
	Wheat	Diseases and low yields	Disease resisters HYV	Variety	HD 1105 HD 3086 Unnat 550	IARI	10.0

FRONTLINE DEMONSTRATIONS DURING 2021-22 Contd..

Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Name of the Hybrid or Variety	Source of Technology	No. of Demo (area in ha)
	G sarson/ Toria	Pest problem	Variety	DGS-1 RSPR-01		
				PU 31/ PBG-07	SKUAST-J GBPUAT, PAU	10 + 10
Pulses	Mash/ Chick pea	Low yieds/ Pest problem				
Fodder	Berseem Oats	Lack of improved variety, Low yield	New Variety	Mascavi Sabzar, PLP-1	SKUAST-J SKUAST-K	2.0 2.0
Medicinal trees	Aonla/ Harad	Lack of improved variety		NA-7 RH-1,2,3	SKUAST-J Dr Y S P UH&F Solan	1.0 1.0
Vegetable	Cucumber/ tomato-	Low productivity	Variety/ PP chemicals		SKUAST-J	2.0
	Cauliflower	Low productivity			SKUAST-J	2.0

FISHERIES AND ANIMAL SCIENCES		
1	Ornamental Fishes	200 nos.
2	Lime , $KMnO_4$, pH paper	20 farmers @ 20kg/each
3	Poultry birds (500 nos.)	5 entrepreneur
4	Pelleted feed	15 farmers @ 30-40kg/each

White Button Mushroom	8 bags for 20 farmers
Oyster Mushroom	8 bags for 20 farmers

TRAINING FOR FARMERS/ FARM WOMEN DURING 2021-22

CROP PRODUCTION

S. No.	Topic	Content	Month	Venue
1.	Integrated Crop management in Rice	• Raising of nursery and aftercare • Nutrient &Weed Management • Water Management • IPM in Paddy	May	Off-Campus
2.	Maize production technology	• Nutrient Management • Weed Management • IPM in Maize	June	Off-Campus
3.	Production Technology for pulses and oil seeds	• Nutritional importance • Weed Management • INM and IPM	Oct	Off-Campus
4.	Wheat Production Technology	• Resource Conservation Technology(RCTs) in Wheat • Weed Management	Nov	Off-Campus

Plant Breeding

S. No.	Topic	Content	Month	Venue
1.	Quality seed production of Basmati	• Improved varieties • Method for seed production • Storage of seed and its Management	July	Off-Campus
2.	Seed production of Maize	• Promising Cultivars • Method for seed production • Storage of seed and its Management	July	Off-Campus
3.	Seed production pulses and oil seeds	• Promising Cultivars • Method for seed production • Storage of seed and its Management	Oct	Off-Campus
4.	Quality seed production of Wheat	• Improved varieties • Method for seed production • Storage of seed and its Management	Nov	Off-Campus

HORTICULTURE

Topic	Course Content	Venue	Month
Nursery management in vegetable crops	• Treatment of nursery area • Seed treatment • Seedling treatment	2	June
Scientific cultivation of marigold	• Selection of varieties • Cultural techniques • IPM and IDM in marigold • Grading and marketing	2	July
Propagation of fruit plants and their care	• Methods of propagation • Preparation of scions • Grafting and after care	1	August
Scientific cultivation of cole crops	• Selection of varieties • Cultural techniques • INM in cole crops	2	September
Cultivation of root crops	• Selection of varieties • Production technology • INM in root crops	2	October
Scientific Cultivation of strawberry	• Selection of varieties • Production technology • INM and IPM in the crop	1	November

AGROFORESTRY

S. No.	Topic	Content	Venue
1	Nursery raising of prominent fodder grasses (Napier and Staria)	• Types of nursery • Cost effective nurseries • Propagation and plantation schedule for grasses.	Off Campus
2	Multipurpose trees and fodder grasses: scope and importance (Mulberry, Poplar, Bajra, Napier and Setaria)	• Role Concept of round the year fodder production • Importance of MPT's • Time and techniques of planting	Off Campus
3	Cultivation of medicinal trees (Jamun, Harad and Aonla) for higher income	• Economic importance of Medicinal trees • Propagation techniques of Jamun, Harad and Aonla • Grading and market	Off Campus
4	Cultivation of medicinal and aromatic plants for higher income (Lemon grass Aloe vera, Khus grass)	• Important MAP's for the district • Economic importance an market of MAP's • Cultivation practices of important MAP's	Off Campus
5	Cultivation of medicinal trees (Jamun, Harad and Aonla) for higher income	• Economic importance of Medicinal trees • Propagation techniques of Jamun, Harad and Aonla • Grading and market	Off Campus

Fisheries

Topic	• Course content	Venue
Composite fish Culture	• Different fishes suitable for fish culture Fishes compatible with each other Different fish ratio for composite fish culture	Off Campus
Culture of Ornamental fishes	• Commonly occurring ornamental fishes How to culture them, their habitat & food requirement. Marketing	Off Campus
Carp breeding	• Selection of brooders Identification of male and female fish Different methods of artificial breeding Hypophysation technique Circular hatchery	Off Campus
Carp fry and fingerling rearing	• Difference between fry and fingerlings Best management practices to increase the survival rate	Off Campus
Fish feed management of fry and fingerlings	• Fish feed size Difference between nutrient constituents BMP	Off Campus
Integrated Fish farming	• What is IFS & IFF? Principles of IFF Profit of IFF	Off Campus
Winter care of Fishes and its feeding	• Methods to care the fishes during harsh winter Feeding management during winter	Off Campus

HOME SCIENCE

S. No.	Topic	Content	Venue
1.	Kitchen Gardening for ensuring nutritional adequacy of families	• Concept of Nutritional Gardening with respect to farm families • Round the year nutritional availability from kitchen gardening • Planning kitchen garden in view of nutritional adequacy	Off Campus
2.	Empowering farm women through agro based entrepreneur activities	• Role/concept of financial independence • Various Agri- based entrepreneurial activities • Value Addition, processing, Mushroom production, Dairy, Poultry etc.	Off Campus
3.	Enhancing the nutritive value of cereals and pulses	• Nutritional need of vulnerable population • Supplementing diet with low cost nutritional supplements • Demonstration of techniques for obtaining optimum nutrition (Fermentation, puffing, sprouting etc.)	Off Campus
4.	Drudgery reducing technologies for household and agricultural operations	• Role of women in household and agricultural operations • Drudgery of women Viz-a-viz time and energy • Demonstration on various drudgery reduction equipments	Off Campus
	Processing of seasonal fruits and vegetables	• Nutritive value of seasonal fruits and vegetables • Concept of processing and income generation • Demonstrations	Off Campus
5.	Processing of white button mushrooms	• Nutritional value of WBM • Post harvest care and management. • Value added products • Culinary preparations	Off Campus

6.	Enhancing the nutritive value of cereals and pulses	• Nutritional need of vulnerable population • Supplementing diet with low cost nutritional supplements • Demonstration of techniques for obtaining optimum nutrition (Fermentation, puffing, sprouting etc.)	1 Day	August	Off Campus
7.	Drudgery reducing technologies for household and agricultural operations.	• Role of women in household and agricultural operations • Drudgery of women Viz-a-viz time and energy • Demonstration on various drudgery reduction equipments	1 Day	Sept.	Off Campus
8.	Processing of seasonal fruits and vegetables.	• Nutritive value of seasonal fruits and vegetables • Concept of processing and income generation • Demonstrations	1 Day	Nov.	Off Campus
9.	Processing of white button mushrooms	• Nutritional value of WBM • Post harvest care and management. • Value added products • Culinary preparations	1 Day	Nov.	On Campus

ANIMAL SCIENCE

PROPOSED TRAINING PROGRAMME FOR FARMERS/FARM WOMEN

S. No.	Topic
1.	De-worming and vaccination in Farm animals
2.	Improvement of nutritive value of low quality roughages
3.	Management of parasitic diseases in animals
4	Clean Milk production

PLANT PROTECTION

S. No.	Topic	Content	Duration	Month	Venue
1.	Insect Pest & Disease Management in Basmati.	• Identification of major pests. • ETL of pests. • Physical, Mechanical & Cultural methods for the control of pests and diseases.	1day, 2021	August	Off-Campus
2.	Insect Pest & Disease Management in Maize Crop.	• Identification of Symptoms • Use of pesticides and fungicides	1day, 2021	Sept.	Off-Campus
3.	Insect Pest and Disease Management in winter vegetables nursery.	• Identification of pests and diseases • Selection of method of control	1day, 2021	October	Off-Campus
4.	IPM and IDM in marigold crop	• Identification of pests and diseases • Selection of method of control	1day, 2021	Nov.	Off-Campus
5.	Management of Stored Grain Pest	• Identification stored grain pest	1day, 2021	Dec.	Off-Campus

S. No.	Topic	Content	Duration	Month	Venue
6.	Insect Pest and disease Management in Wheat Crop	* Seed treatment. * Use of pesticides and fungicides	1 day	January, 2022	Off-Campus
7.	Safety Parameters during use of Pesticides in Agriculture.	* Basic precautions in insecticide usage. * Selection of right chemicals. * Symptoms of poisoning by different pesticides	1 day	February, 2022	Off-Campus
8.	Management of Stored Grain Pest	• Identification stored grain pest • Selection and application of fumigants • Sanitation of storage structures	1 day	March, 2022	Off-Campus

TRAINING PROGRAMME ON SCIENTIFIC BEE KEEPING UNDER MINI MSSION-1 REVISED BEE KEEPING & HONEY MISSION (NBHM).

KVK	Budget for five physical trainings @ Rs 1.75 lakh per training	Budget for one online training	Budget for management support of KVK Jammu	Total Budget (In lakhs)	Proposed dates
Jammu	8.75	0.15	0.31150	9.21150	8 to 14th April 2021 26th April to 2nd May 2021 17th to 23rd May 2021 7th to 13th June2021 21st to 27th June 2021 5th to 7th May 2021 (Online)

TRAINING PROGRAMME FOR OFFICERS OF LINE DEPARTMENTS

Discipline	Topic	Content
Agroforestry	Agroforestry in adaptation and mitigating climate change	• Agroforestry concept • Climate change • Adaptation and mitigation, Agroforestry intervention
Fisheries	Bio-floc system for fish Culture	What is Bio floc concept Principle of biofloc Suitable species to culture under this system Suitability of system under J&K Climate
Home Science	Processing of cereals and pulses (for Anganwari workers and supervisors)	• Concept of value addition in view of improving nutritional value and acceptability to the vulnerable groups • Demonstration of value added products from cereals and pulses (weaning foods)
Horticulture	Integrated pest management in vegetable and fruit crops	•IPM •Important pest of Fruits and vegetables •Management and control
Plant Breeding	Quality seed production of cereals under Organic management	• Principle of Organic • Organic Practices • Organic seed production
Plant Protection	Safety parameters in insecticide usage	• Basic precautions in pesticide application • Use of different equipments for vegetables, cereals and fruit crops. • Operational calibration and maintenance guidelines • Method for calculation of pesticides for application

TRAINING PROGRAMME FOR RURAL YOUTH

Discipline	Topic	Content	Duration	Venue
Agroforestry	Quality planting material production and Nursery raising an enterprise	• Importance of QPLM prodn. • Cost effective nurseries • Lay out plan • Marketing • Intercultural activities	2	On Campus
Fisheries	Aquarium making as an entrepreneurial activity	Method to make aquarium Different sizes and dimensions Maintenance of Aquarium	5	On Campus
Fisheries	Breeding of ornamental fishes	Different breeding habit of fishes Breeding of live bearers Breeding of egg layers	5	On Campus
Home Science	Processing of seasonal fruits, cereals and vegetables for augmenting family income and consumption during COVID-19 lockdown situation	• Nutritive value of seasonal fruits and vegetables. • Concept of processing 7 income generation. • Skill training in processing and value addition of mango, jamun, Guava, Lemon, tomato etc.	3	On Campus
Horticulture	Nursery raising as an enterprise	Treatment of nursery area Seed treatment Seedling treatment Propagation techniques of various fruit crops	3	Off Campus

ASCI CERTIFIED TRAININGS DURING 2021-22

Discipline	Topic	No. Of Participants	Venue
Aquaculture worker	ASCI (200 hrs) Certified training programme "Aquaculture Worker"	20	On Campus
Home Science	ASCI (200 hours) training program on “Mushroom Grower- Small Entrepreneur”	20	On Campus

EXTENSION ACTIVITIES

Extension programme	No. of programmes or activities	Names of the team members involved
Kissan Melas / Farmer Fairs	02	**Dr Punit** **Dr R Kour** **Dr Sheetal** **Dr Prem** **Dr Amitesh** **Dr Muneeswar** **S Satbir Singh** **Er Ashish** **Dr Raju Gupta**
Field days	05	
Seed Treatment Campaign	02	
Veterinary Clinical camps	02	
Diagnostic visits	Need based	
Celebration of Important Days	02	
Kisan Ghoshti	02	
***Parthenium* management week**	01	
Farmers Scientist interaction	02	
Ex-trainees Sammelan	01	
Awareness programme	**6**	

ACTIVITIES PROPOSED AS KNOWLEDGE AND RESOURCE CENTRE DURING 2019-20Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
1	Technology Park/ Crop cafeteria	HYV cereals, Fodder, Pulses, oilseed	0.1	Dr Punit Dr Ravneet Kour Dr Raju
2	Demonstration Units	Vermicompost Mushroom Fish pond IFS	0.05	Dr Punit Dr Prem Kumar Dr Muneeshwar Mr Raju
3	Technology Week	HYV cereals, Fodder, Pulses, oilseed IFS	0.5	Dr Punit Dr Ravneet Kour Dr Prem Kumar Dr Amitesh Mr Raju

Technological Products

Sl.No	Category	Name of the product	Quantity (Qtl.)/ Number planned to be produced during 2018-19	Names of the team members involved
4	Seeds	Wheat (Certified and Foundation) Paddy (B-370)	150.0 100.0	Dr Punit Dr. Amitesh Mr. Raju Gupta
5	Planting materials	Medicinal/fruit Trees Grasses root slips	400 5000	Dr Punit Dr Ravneet Kour Mr Raju
6	Bio-products	Vermicompost	50.0	Dr Punit Dr. Muneshwar Mr Raju

THANKS

TEAM KVK JAMMU