



Development of seed and seed multiplication chain in PPP mode



Project No- 01



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Improvisation of Seed Replacement Rate, Varietal Replacement Rate & Seed Multiplication Rate to recommended levels
- ✓ Strengthening of Seed Multiplication Chain
- ✓ Capacity building of Agripreneurs, Agri-Officers, Scientists etc.

Interventions

- ✓ Involvement of stakeholders in PPP Mode
- ✓ Creation of efficient seed market chain, community seed banks at block levels & protected cultivation
- ✓ R&D and Human Resource Development

Significant Achievements

1 Up scaling Breeder seed production : 35.63 Tons

Season	Crop	Varieties
Rabi 2023-24 (April, 2024)	Wheat	Jammu Wheat 672, Jammu Wheat 584, DBW 296, WB 02, DBW 173, DBW 187 DBW 222, DBW 173, VL 907 Total : 30.0 (MT)
Kharif 2024 (Oct/Nov, 2024)	Paddy Lobia Moong Okra	Giza-14, K-448 K-39, K-343, Basmati-370, JB-123 Super 60 JAU-0936 Jammu Okra-05 Total: 5.63 (MT) Grand Total :35.63 (MT)

2 Capacity building of Agripreneurs and Agri-officers



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Promotion of Niche Crops in J & K



Project No-02



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Skill /Capacity development
- ✓ Seeking of GI Tag for Niche crops

Interventions

- ✓ Production of quality planting material by introduction of registered nursery management system
- ✓ Diversification & area expansion of niche crops by targeting non-traditional areas of J&K in over 11,100 ha
- ✓ Value addition & brand promotion for marketing and a compact value chain of niche crops

Significant Achievements

- 1 **Ninety-five germplasm collections of niche crops from Jammu province under evaluation**
 - ❖ Hill Garlic 20
 - ❖ Rajmash 40
 - ❖ Pecan nut 13
 - ❖ Kalazeera 02
 - ❖ Anardana 20
- 2 **Seeking of GI Tag for Hill Garlic filed to GI authority, GOI**
- 3 **Eighteen training programmes conducted on Good Agriculture Practices of niche crops (Participants benefitted: 525)**



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Promotion of Vegetable and Exotic Vegetable under Open and Hi-tech Protected Cultivation



Project No-03

Holistic Agriculture Development Program, U.T. of J&K

Objectives

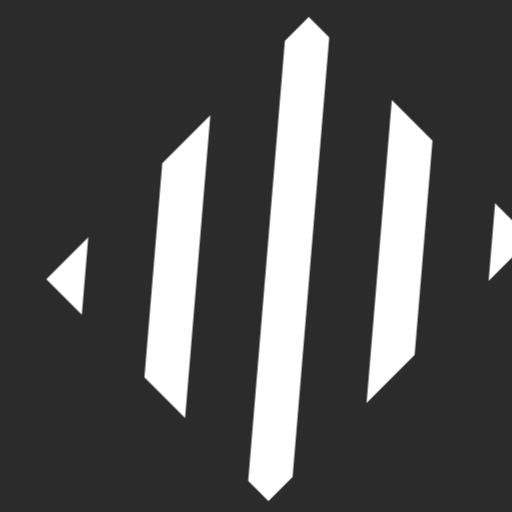
- ✓ Evaluation of Region specific varieties/ hybrids of vegetables both under open and protected structures
- ✓ Standardization of technologies for year round production of vegetables

Interventions

- ✓ Horizontal and Vertical Expansion to improve production and productivity.
- ✓ Promotion of Exotic and High Value Crops.
- ✓ Year-round cultivation of vegetables using hi-tech farming methods.

Significant Achievements

- 1 Open field evaluation of exotic vegetables viz. Broccoli, Lettuce, Chinese cabbage, Snow peas and Cherry tomato conducted in the demonstrated plots.
- 2 The seed of exotic vegetables i.e., Broccoli (Jammu Broccoli-07) and Cherry tomato (SJCT-01) produced for demonstration and multiplication purpose.
- 3 Establishment of polyhouse structure for controlled environment production system and cultivation of vegetable crops.



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Strengthening Agricultural Marketing in UT of J&K



Project No- 04

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Measuring the current branding/packaging practices in the horti-agriculture marketing systems of Jammu and Kashmir.
- ✓ Identification of niche commodities and areas/clusters of produce for branding and promotion of agri./horticultural commodities for greater marketing efficiencies.
- ✓ Formulation of an area-specific niche brand through Farmer Producers Organizations (FPOs) for increasing linkages & efficiencies.

Interventions

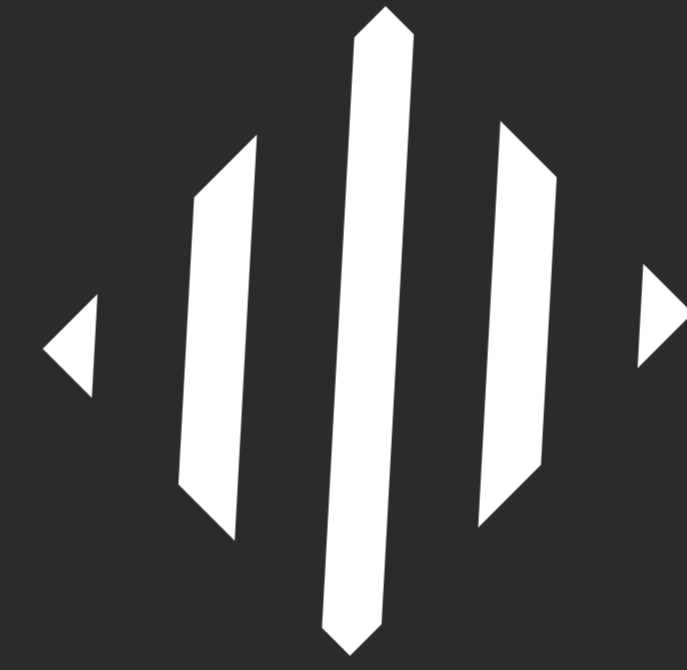
- ✓ Market reforms like open auctions and unified licensing in all mandis of J&K.
- ✓ Institutional building & capacity development through niche marketing FPOs.
- ✓ Branding & market intelligence to promote timely decision making and brand loyalty.

Significant Achievements

- 1 Commodities identified in consultation with Department of Agriculture.
Questionnaire prepared for identification of branding of niche crops.
- 2 Two days' training on branding and packaging in agribusiness conducted for 70 number of beneficiaries and staff members of concerned projects

Two days' training on enhancing agribusiness success through strategic branding and packaging organized for 30 number of participants
- 3 Two day's training program organized for rural business service hubs (rbshs) for 29 number of trainees

Second training entitled empowering rural agri-entrepreneurships: building successful rural business service hubs was organized for 20 number of stakeholders



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Promotion of Medicinal and Aromatic Plants (M&AP) cultivation on commercial basis in UT of J&K



Project No- 05

Holistic Agriculture Development Program, U.T. of J&K

Objectives

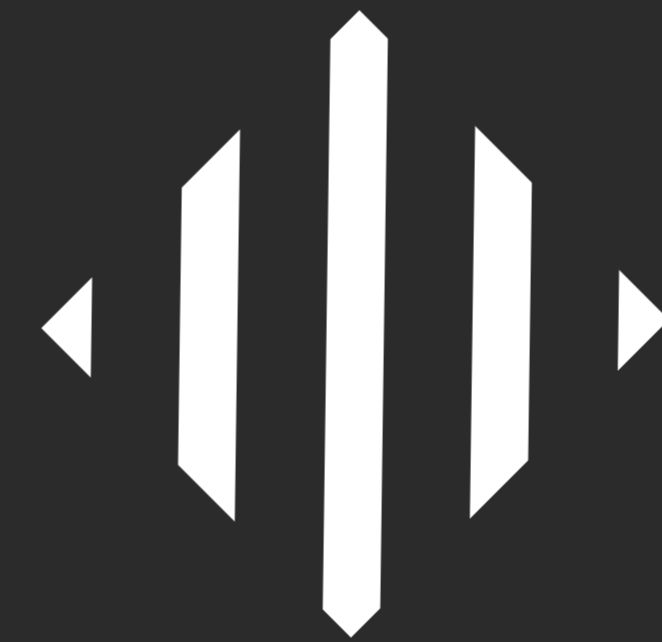
- ✓ Identification & Conservation of Elite Genotypes of Medicinal and Aromatic Plants
- ✓ Standardization of agro-techniques & harvesting protocols of elite genotype
- ✓ Bio-prospecting of Medicinal and Aromatic Plants

Interventions

- ✓ Cultivation and conservation of MAP & creation of MAP germplasm banks.
- ✓ Branding and marketing with product diversification, certification, and establishing market linkages and digital marketing.
- ✓ R&D and HRD through establishment of “Centre of Excellence on Herbal Technology” for focused R&D.

Significant Achievements

- 1 Germplasm banks of *Saussurea costus*, *Lavendula augustifolia*, *Cymbopogon flexuosus* and *Tagetes minuta* established.
- 2 Phytochemical characterisation of lemongrass cultivars achieved.
- 3 Geranial, Neral, Citral, the dominant compounds recorded in Krishna, CKP-25 and Kalam lemongrass varieties. Geraniol and Geranyl acetate, the major compounds in CN-5 and CK-10 varieties.



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Promotion of Beekeeping



Project No- 06



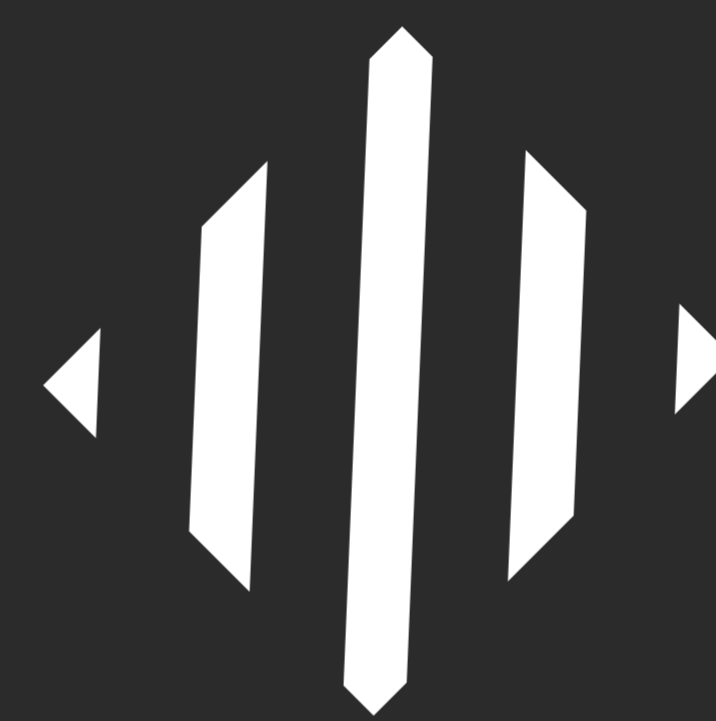
Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Disease Diagnostic and Quarantine centre
- ✓ Bee Breeding Centre for Climate Smart Bees
- ✓ Quality Nucleus Stock Development Center

Interventions

- ✓ Strengthening & distribution of bee colonies through cluster/SHGS/FPOS.
- ✓ Production of nucleus stock and bee breeders.
- ✓ Setting up of GI labs.



Significant Achievements

- 1 The disease diagnostic and quarantine laboratory established.
- 2 *Varroa destructor*; predatory wasps *Vespa velutina*, *V. orientalis*, *V. cincta*, *V. basali* and *V. mandarinia*.; greater wax moth; Nosema; sac brood are the main problems in apiaries.
- 3

The prevalence of viral diseases viz., Israeli acute paralysis virus (IAPV), Kashmir bee virus (KBV), sac brood virus (SBV) and Thai sac brood virus (TSBV) infecting *A. mellifera* identified through RT-PCR technique in Jammu region.

The primer pairs of different viruses produced the clear and distinct bands of approximately 110, 122 and 119 bp for IAPV, KBV and SBV, respectively.



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Technological Interventions to Strengthen Sericulture in UT of J&K



Project No- 07



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Technological Innovations and Skill Development Hub in Sericulture.
- ✓ Value addition and Product diversification in Sericulture.
- ✓ Year round silk production in the region.

Interventions

- ✓ Expansion of area under mulberry plantation.
- ✓ Enhancing the capacity of silkworm seed production.
- ✓ Well-equipped and well managed chawki rearing centres (CRCs).

Significant Achievements

- 1 Establishment of centre for holistic development of sericulture completed.
- 2 Strengthening of laboratory.
- 3 Introduction and evaluation of different genotypes of Eri silkworm to diversify the sericulture in Jammu region.
- 4 Skilling, Value addition and product development in Sericulture, for rural youth and farm women to take sericulture as non farm source of income.



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Promotion of Millets & Nutri-Cereals in UT of Jammu & Kashmir



Project No- 08



Holistic Agriculture Development Program, U.T. of J&K

Objectives

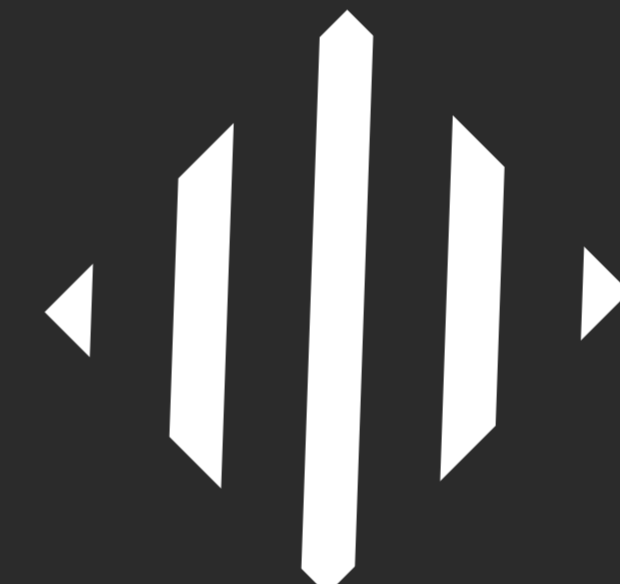
- ✓ Standardization of the cultivation technologies for enhancing productivity and profitability of minor millets.
- ✓ Collection & purification of indigenous landraces of minor millets.
- ✓ Storage and preservation of novel genetic resources of local landraces.
- ✓ Evaluation and standardization of production technologies of local and exotic landraces
- ✓ Capacity Building.

Interventions

- ✓ Employing best cultivation technologies with improved varieties
- ✓ Promoting millet processing enterprise and establishing market linkage
- ✓ Value addition & branding as smart food

Significant Achievements

- 1 Five accessions of Proso millet registered with NBPGR, New Delhi.
- 2 Eight trials (finger, kodo, little, barnyard, foxtail, amaranthus) based on the different R& D aspects of millets conducted.
- 3 Fifteen demonstration conducted; 5 in Jammu, 2 in Kathua and 3 in Rajouri, 3 in Kishtwar, 2 in Baherwah.
- 4 Establishment of Millets Cafeteria (4) at Jammu, Kathua, Rajouri and Bholderwah.
- 5 Five trainings programmes conducted at Rajouri, Kathua, Jammu, Bholderwah.



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Farm Mechanization and Automation



Project No- 09

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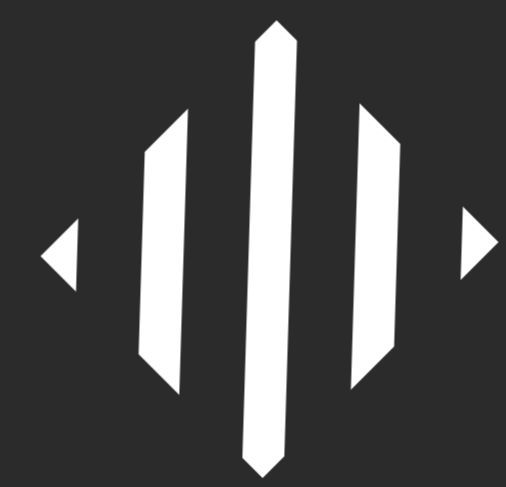
Objectives

- ✔ Mechanization and Automation of Agriculture operations at University Research Farms
- ✔ Establishment of Custom Hiring Centre at KVK(s)
- ✔ Research and Development: Prototype Development Centre

Interventions

- ✔ Custom hiring centers & farm machinery banks
- ✔ Mechanization & automation of agricultural farms
- ✔ Human Resource Development

Significant Achievements



Tractor



Reversible Plough



Straw Reaper



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Promotion of Round the Year Mushroom Cultivation



Project No- 10



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Standardization of locally available substrates & conditions for their optimal growth
- ✓ Introduction & promotion of new mushrooms & their strains
- Value added products development
- ✓ Skill development of mushroom growers

Interventions

- ✓ Introduction of high yielding strains & promotion of medicinal Mushrooms
- ✓ Skill development of mushroom growers
- ✓ Aggregation, PHM, value addition & market linkage

Significant Achievements

- 1 Optimal conditions for mycelial and spawn growth of *Flammulina* and *Hericium* mushroom standardized
- 2 Cultivation technology of *Flammulina* and *Hericium* mushroom standardized
- 3 Seven training/ awareness programmes on mushroom cultivation organized



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Promotion of Oilseeds



Project No-11



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Development of R&M varieties & identification of suitable high yielding varieties of Sunflower, Sesame, Soyabean and Rapeseed & Mustard for Jammu region.
- ✓ Provide breeder seed of Rapeseed & Mustard varieties as per indent of Department of Agriculture, Jammu.
- ✓ Popularization of newly developed technologies for the benefit of farmers of Jammu region through FLD, lectures in trainings.

Interventions

- ✓ Covering additional 70,000 ha area under oilseed crops through crop diversification.
- ✓ Increase cropping intensity and seed replacement rate.
- ✓ Capacity building and entrepreneurship development.

Significant Achievements

- 1 Entry JT-17-1 (Torja) submitted to ICAR (DRMR) for evaluation in all India Co-ordinated trials.
- 2 Varieties evaluated
 1. Four Hybrid of Sunflower
 2. Four varieties of soyabean
 3. Five varieties of Sesamum
- 3 300 kg Breeder Seed supplied to Agri. Deptt. Jammu
- 4 24 acres 2023-24 & 200 acres mustard FLD distributed during 2024-25.



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Adoption and Promotion of Integrated Farming System & ILS in UT of J&K



Project No-13

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ To replicate the Model developed by the SKUAST-J after being scaled down and customized at different agro-ecosystem of the UT.
- ✓ To not only double the farmer income but also addresses the sustainability, livelihood and nutritional security.
- ✓ To promote farm waste recycling.

Interventions

- ✓ Farmer assessment & human resources development
- ✓ Orientation & capacity building
- ✓ Implementing IFS interventions

Significant Achievements

Components of IFS Model

- 1 One ha IFS Model comprising of various farm enterprises i.e. Crop + Horticulture (intercropped with high value low volume vegetable crops) + **Animal** unit+ Fisheries cum Poultry + Biogas+ Mushroom + Farm waste recycling unit has already been developed with Albizia, Grewia, Luceneae, Aonla & Poplar planted as boundary plantation.

Economics of IFS Model

- 2 During the year 2023-24, live model of IFS, SKUAST-J provides round the year production with Net profit of Rs. 3.66 lac/year/ha which is quite comparable to existing farming system which workout to be 0.90 to 1.0 lac/ha/year.

Sustainability

- 3 It is evident from the study of IFS that there is having a potential not to doubling farmer income as compared to existing farming system but also showing a reduction in GHG's emission (-17907 CO₂ e-kg), from IFS model which leads toward sustainability issue in agriculture.



Overall view of Crop/Horticulture component of IFS Model



Areal view of different components of IFS Model



Areal view of different components of IFS Model

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Promotion of Commercial Floriculture



Project No-14



Holistic Agriculture Development Program, U.T. of J&K

Objectives

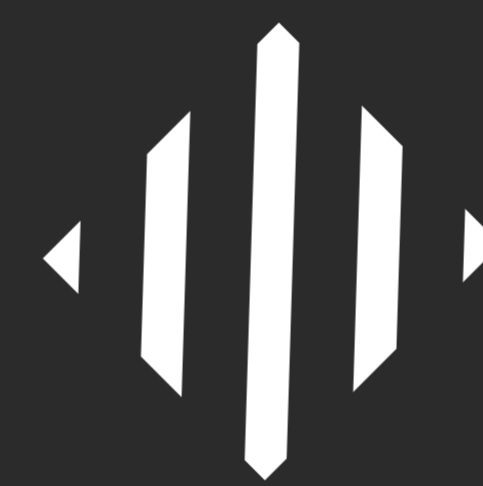
- ✓ To develop a Floriculture Entrepreneurship Model which is economical and commercially viable
- ✓ Production of quality planting material of ornamental plants
- ✓ To promote farmer participation and capacity building

Interventions

- ✓ Up-gradation/capacity building of existing nurseries including post-covid revival of sick/closed units.
- ✓ Area expansion by clusterization in nurseries, protected cultivations of cut- flowers and aromatic & ornamental crops.
- ✓ Capacity building & aggregation.

Significant Achievements

- 1 Two hi-tech polyhouses for model floriculture farm as well as ornamental plant nursery established.
- 2 Production of quality planting material of high value ornamental plant.
- 3 Collection of seed/ quality planting material of elite ornamentals.
- 4 Commercially important Gerbra crop planted.



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Development of Rainfed Areas of J&K



Project No-15



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ To promote production of quality seed of climate resilient crops for improving productivity.
- ✓ To increase minor fruit production & productivity of old senile orchards for supplementary income.
- ✓ Area expansion under Dragon fruit cultivation through standardization of protocols and value chain development.

Interventions

- ✓ Minimizing soil degradation through agroforestry-based approaches
- ✓ Promoting IFS/ILS which encourages system-based productivity
- ✓ Improving access to institutional credit
- ✓ Comprehensive insurance provision



Significant Achievements

- 1 Produced 104.25 qtls of quality seed of climate resilient crops/varieties.
- 2 03 No's of demonstration blocks of dragon fruit established.
- 3 Laboratories for product development and value addition established.



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Milk & other samples tested for diagnosis & management of economically important diseases in livestock



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Alternate Agriculture System for Sustainability



Project No-16



Holistic Agriculture Development Program, U.T. of J&K

Objectives

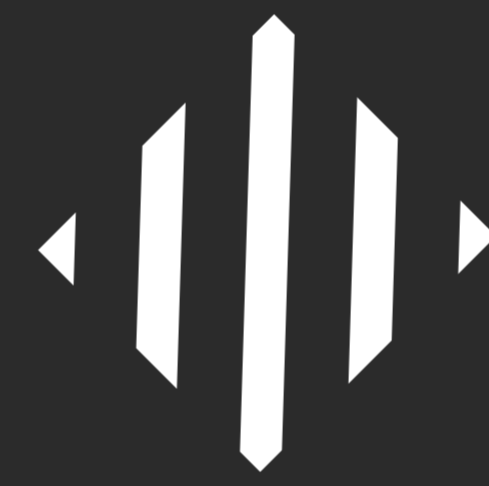
- ✓ Stimulate ecological resources and processes for safe and sustainable production

Interventions

- ✓ Bio- input production & recycling of resources.
- ✓ Facilitation in certification & marketing of organic produce.
- ✓ Training & capacity building to develop skills and know-how of organic farming.

Significant Achievements

- 80 On-Farm Research Trials laid on paddy, pulses and vegetables on farmer's field at Samba and Research Farm, CONF, Chatha Jammu
- Conducted 12 farmer's trainings on organic and natural farming cultivation in Samba and Jammu, wherein 500 farmers were made aware about organic production of cereals, fruit crops and pulses



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Sensor Based Smart Agriculture



Project No-17

Holistic Agriculture Development Program, U.T. of J&K

Objectives

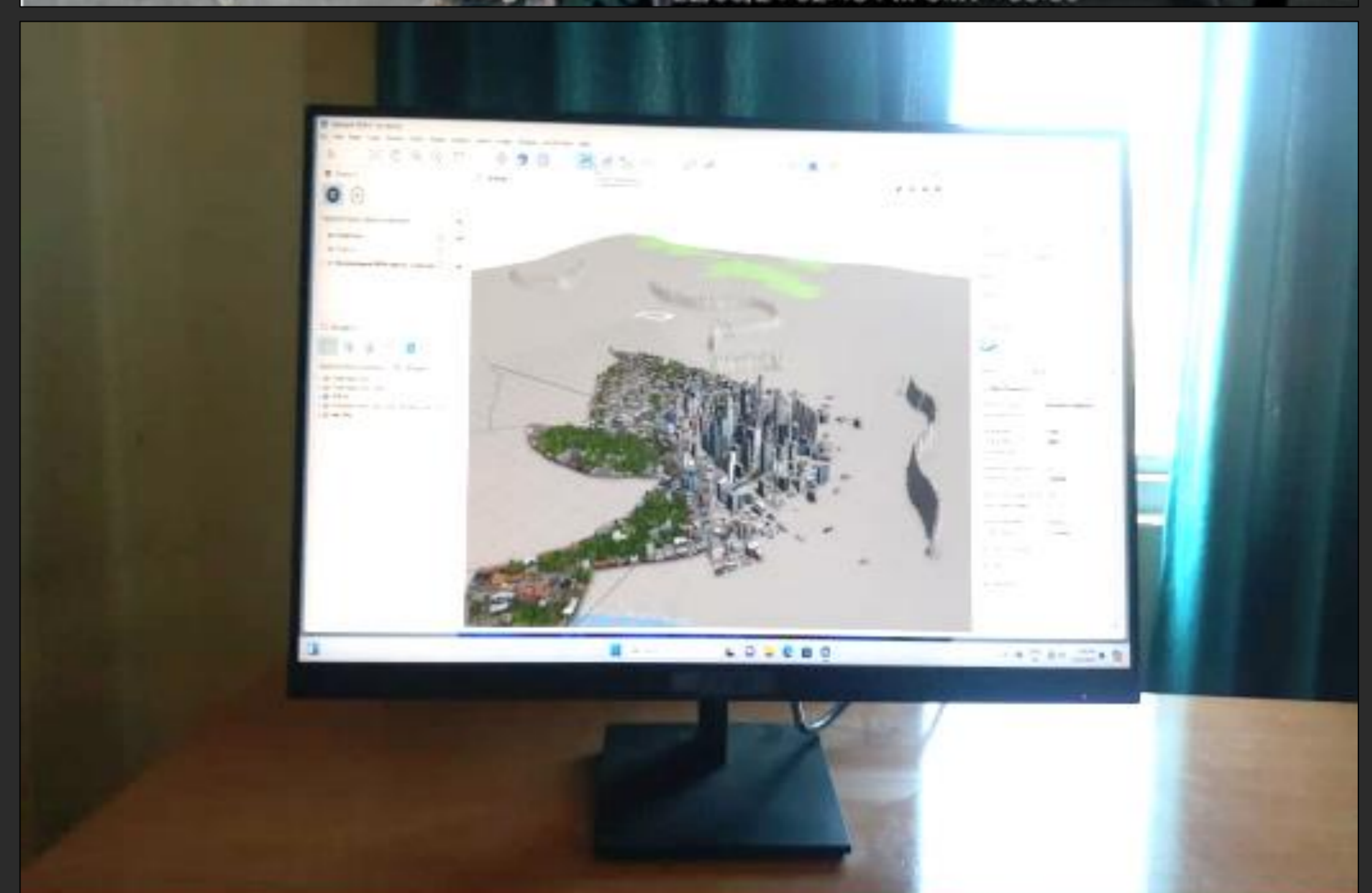
- ✓ R&D capacity building towards smart agriculture
- ✓ State of art sensor based hi-tech protected cultivation
- ✓ Sensor based pilot study on protected cultivation of vegetables

Interventions

- ✓ R&D for capacity building towards smart agriculture
- ✓ State of art sensor based high tech protected cultivation
- ✓ Sensor based pilot study on high density apple cultivation

Significant Achievements

- 1 Drone with spraying unit
- 2 Lab work station with ESRI GIS toolkit
- 3 Remote Sensing, GIS & AI lab setup



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Minimising Pesticide Use in Agriculture



Project No-18

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Strengthening of Bio-control labs
- ✓ Capacity building of stakeholders and Development of Agri-entrepreneurs

Interventions

- ✓ Development of cluster-based model orchards.
- ✓ Identification of disease resistant varieties of crops.
- ✓ Popularizing & adoption of advanced spraying technologies & bio-pesticides.
- ✓ Estimating pre-harvest interval for developing safe food.

Significant Achievements

- 1 Quality control laboratory strengthened through procurement of equipments and other infrastructural facilities.
- 2 Technology for mass production of biopesticides viz. NPV and Bt standardized.
- 3 Mass production of botanical pesticides viz. Neem, pongamia and other local plants initiated.
- 4 On-site practical training programme on production technology of botanical pesticides conducted for farmers.
- 5 Production Technology Manual on botanical pesticides and safe use of pesticides published.



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J&K Soil and Land Resource Information System for Planning and Soil Health Management



Project No-19

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Objectives

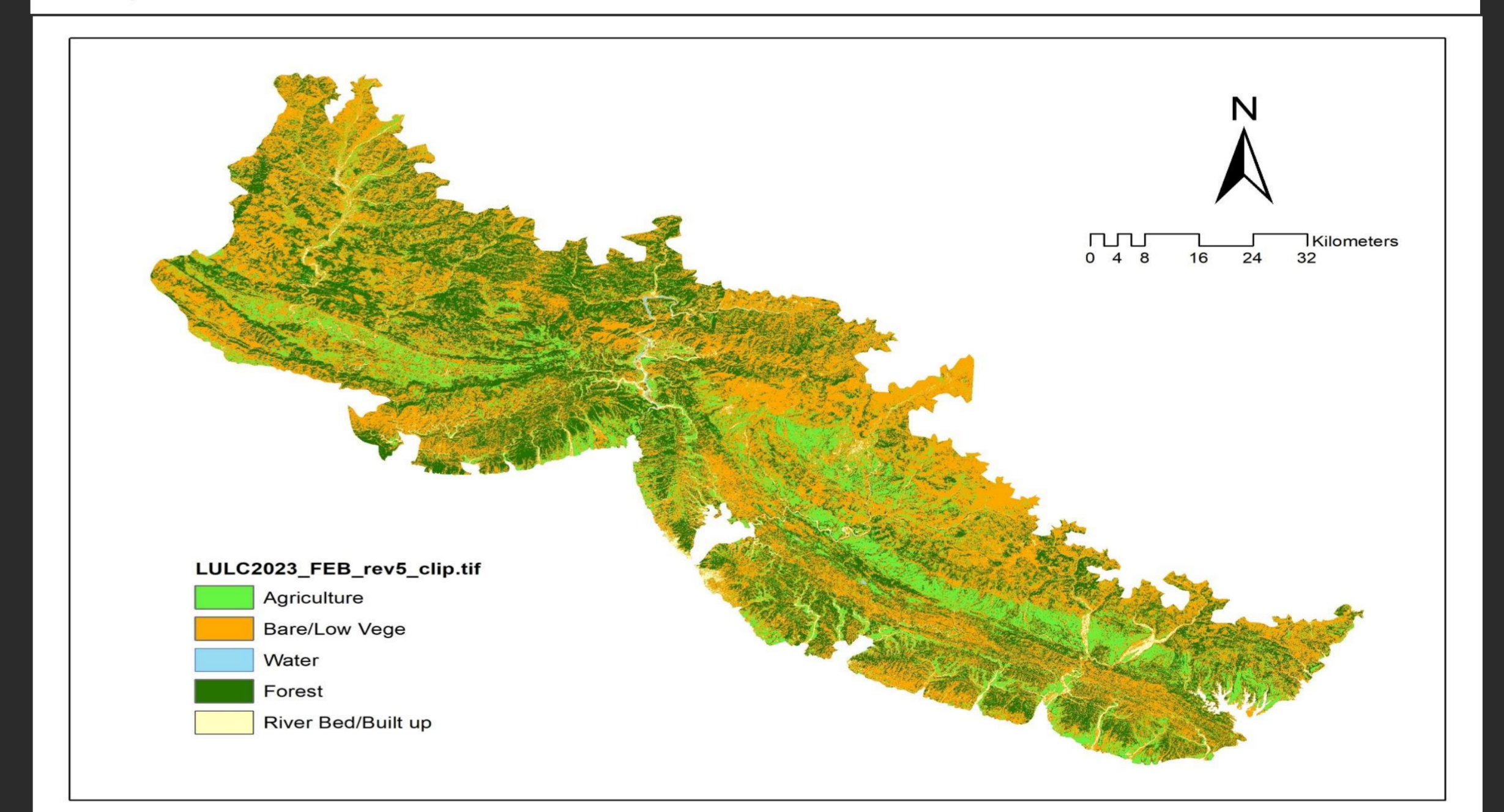
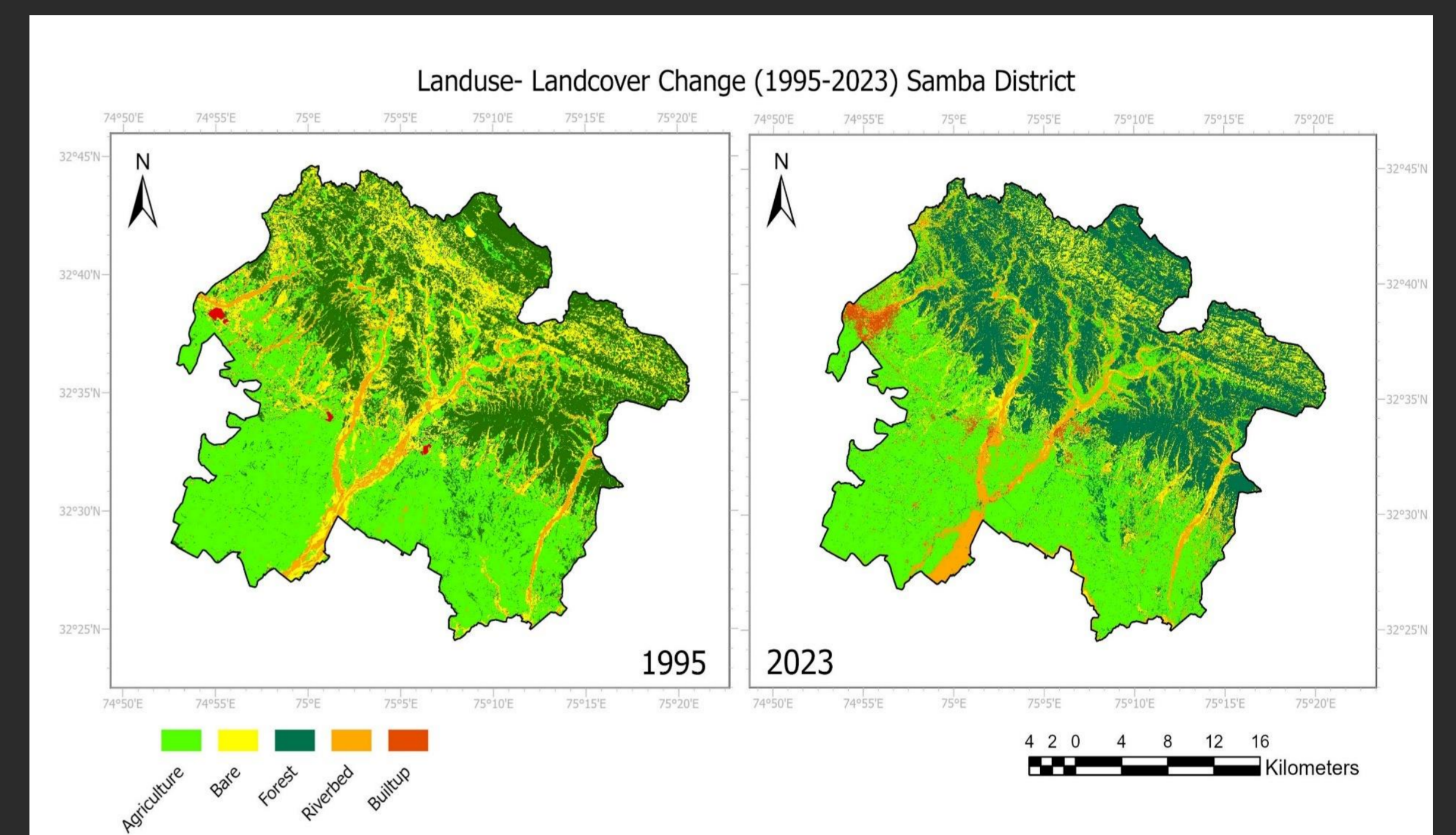
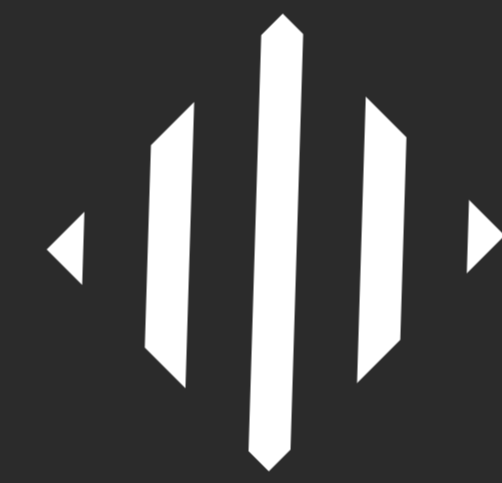
- ✓ Crop – Land Suitability - Based on Land Evaluation
- ✓ Capturing soil profile data and soil Monolith Collection
- ✓ Site-specific soil health management and yield zonation
- ✓ Robust Land use policy- On Agriculture and Urbanization

Interventions

- ✓ Evaluation of crop – land suitability
- ✓ Capturing soil profile data
- ✓ Site-specific soil health assessment
- ✓ Human resources development

Significant Achievements

- 1 Setting up of Geospatial & Pedometrics Lab, with Workstation facility and Mapping Software.
- 2 Machine Learning Application in Development of Soil Maps for Samba District.
- 3 Land-use Land Cover Change in Samba District over nearly three decades indicating minor decline in Agricultural land.
- 4 Land-Use Land cover Change in the Outer Himalayas over the last two decades indicating substantial decline in Agricultural land.



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Innovative Extension Approaches for Revitalizing Agriculture in J&K



Project No-20



Holistic Agriculture Development Program, U.T. of J&K

Objectives

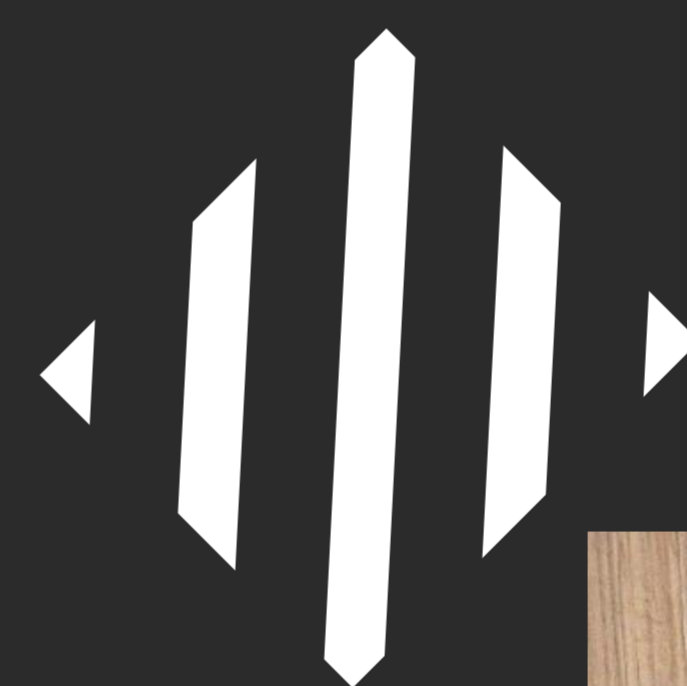
- ✔ To provide seamless Agricultural Extension services with perfect outreach and dynamic contact across the value chain and real time resource person-client interaction
- ✔ Holistic planning and execution of Production to Profitable agriculture with area and commodity specific Extension Approach based on Agri knowledge system (JK Agri-stack platform)
- ✔ To develop capacities in agricultural extension and skill development for entrepreneurship development and employment generation

Interventions

- ✔ Block level Agri-Extension Advisory Committee
- ✔ KVK as convergence hub at District level
- ✔ Community Radio Station
- ✔ Production Studio

Significant Achievements

- 1 35 Awareness cum popularization programs organized during the year 2023-24 & four thousand farmers benefitted.
- 2 02 no's. of trainings halls viz. Manthan Hall & HADP Training Hall refurbished.
- 3 06 nos. Hi-Tech Green Houses (Plant Protected Cultivation Structures) at KVK Jammu, KVK Samba, KVK Kishtwar, KVK Doda, KVK Reasi and KVK Kathua are under establishment.



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Production of Designer Plants for the Promotion of High Density Plantations and Rejuvenation of orchards



Project No-21

Holistic Agriculture Development Program, U.T. of J&K

Objectives

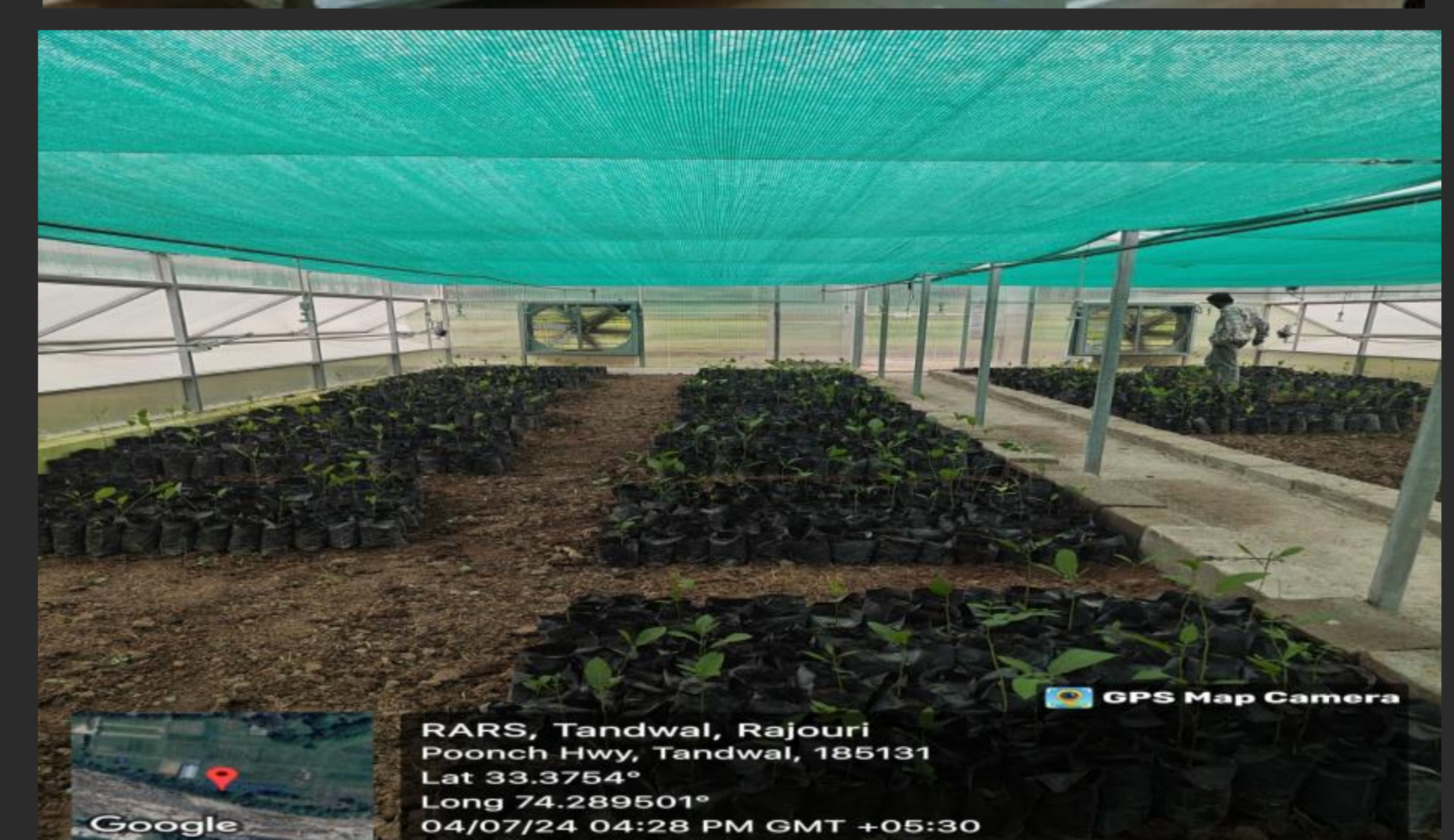
- ✓ Developing Mother Orchards for collection of best suited Cultivars.
- ✓ Production of quality planting material for promotion of high density plantations.
- ✓ Protected cultivation for quality and disease free material.
- ✓ Mechanization and automation of existing nurseries.
- ✓ Research and development in Horticulture.

Interventions

- ✓ Production of elite planting material
- ✓ Mechanization, automation & protected cultivation
- ✓ Rejuvenation of orchards
- ✓ Capacity building

Significant Achievements

- 1 Developed 01 Hectare Mother Orchard of Citrus species at SKUAST-Jammu.
500 nos. plants of more than 12 cultivars planted for bud wood bank.
- 2 02 nos. hi -tech poly houses constructed at RARS Rajouri and KVK Poonch for Nut crops propagation.
Propagated more than 3500 walnut and peanut plants.
- 3 Protocols standardization for mass multiplication of strawberry and apple rootstocks under progress.



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Roadmap to Poultry Production in J&K



Project No-25

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Development and evaluation of a new generation vaccine against Newcastle disease virus in chicken
- ✓ Low-cost feeding formulations using locally available non-conventional feed ingredients

Interventions

- ✓ Broiler day-old chick production.
- ✓ Commercial feed manufacturing.
- ✓ Egg production through commercial & backyard/free-range farms.

Significant Achievements

- 1 Creation of infrastructure facility for handling and culture of virus in the laboratory
- 2 Fifteen local NDV strains have been isolated through culturing of the viruses in laboratory
- 3 Genotyping and pathotyping of local strains conducted
- 4 Use of two unconventional feed resource for low cost feed formulation
- 5 Two trials in broilers conducted by using different levels of brewery wastes and biscuit bakery waste



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Technological Interventions for Fish Seed and Trout Production in UT of J&K



Project No-26



Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Seed production of Indigenous fish species for ranching and rehabilitation of natural water bodies and diversification of candidate aquaculture species
- ✓ Development of Low-cost feed
- ✓ Value addition and Product Development
- ✓ Disease diagnosis and prophylaxis

Interventions

- ✓ Import of genetically improved variety of fish seed
- ✓ Establishment & upgradation of the hatcheries/fish rearing units
- ✓ Establishment of new hatchery units in clusters mode
- ✓ Production & post-harvest management

Significant Achievements

- 1 Infrastructure for Aquaculture research and seed production established.
- 2 Fish nutrition and molecular genetics lab. upgraded.
- 3 Fish value addition and product development lab. under establishment.
- 4 R&D on sustainable packaging under progress.



W39X+P68, Udampur, 182101

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Local 10:39:50 AM GMT 05:09:50 AM	Altitude 692 meters Wednesday, 25.09.2024



Bansultan, null, null
MR33+RJ4, Bansultan, 180009
Lat 32.65438°
Long 74.80305°
24/10/24 09:57 AM GMT +05:30



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Promotion of Wool and Pelt for Effective Processing and Marketing



Project No-27

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Identification and revival of Indigenous wool-based niche products
- ✓ Development of value added woolen products
- ✓ Identification of constraints and development of road map for wool industry

Interventions

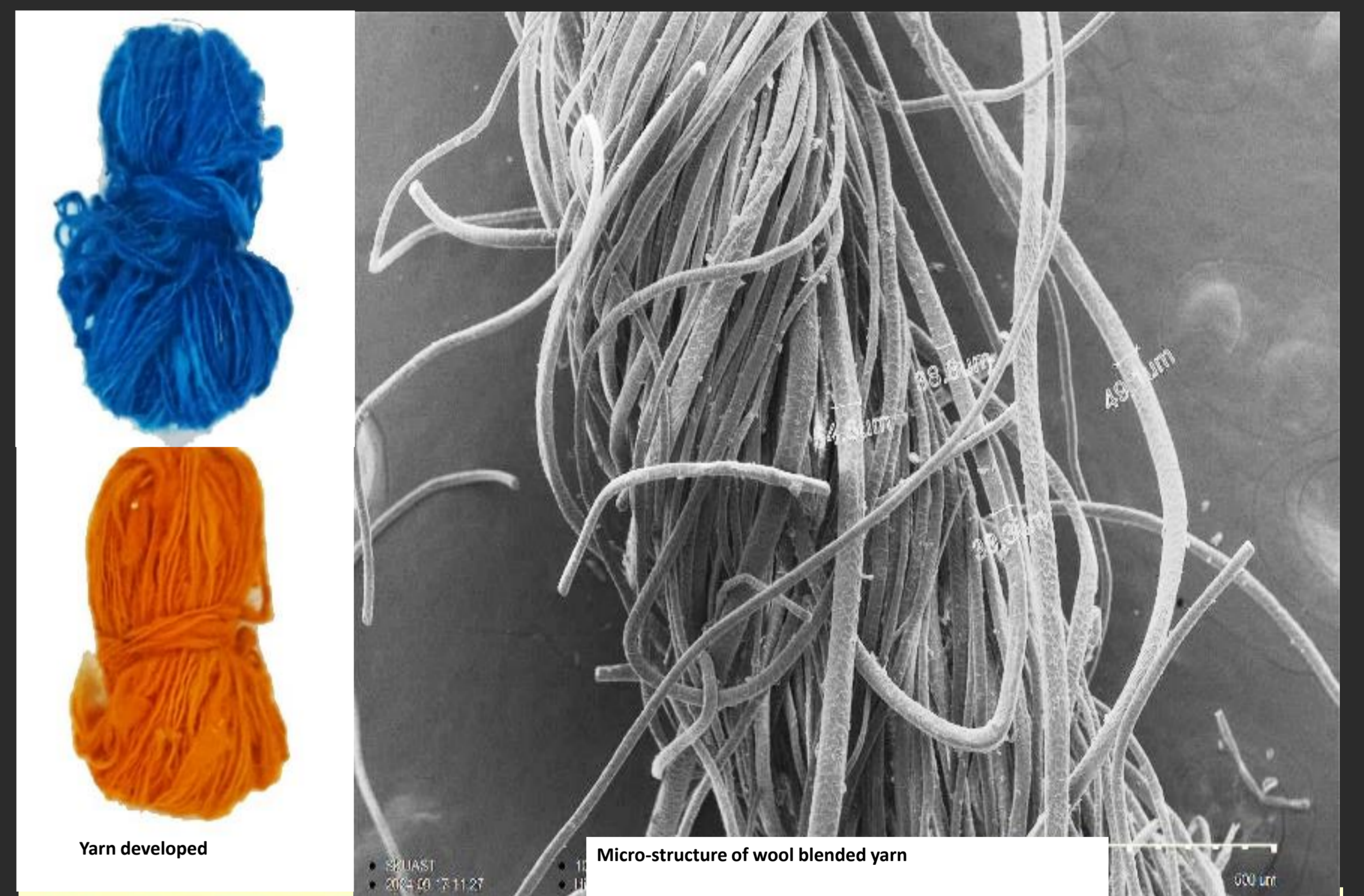
- ✓ Collectivization and integration of wool
- ✓ Creation of common facilitation centers
- ✓ Revival of wool board
- ✓ HRD and R&D

Significant Achievements

- 1 Revival of 04 wool based ITK Products: Duggar basket, Basholi stole, Woolen muffler and Tweet coat
- 2 Establishment of 5 cooperatives with skill impartment of 250 artisans
- 3 Development of 4 wool blended yarns and 2 wool blended fabric
- 4 Characterization of wool of local sheep breeds



Jallapur Woolen Muffler Cooperative Society



Yarn developed

Micro-structure of wool blended yarn



Training Programme-Jallapur, Samba

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Development of Fodder Resources for J&K



Project No-28

Holistic Agriculture Development Program, U.T. of J&K

Objectives

- ✓ Innovative approaches for green fodder production and mass multiplication under Hi-Tech agriculture
- ✓ Genetic improvement of fodder crops for yield and quality
- ✓ Rejuvenation and Promotion of Horti-Silvi-Pastoral systems and grasslands

Interventions

- ✓ Feed & fodder production, processing, and value addition incentives
- ✓ Innovation in green fodder production
- ✓ Genetic improvement of fodder crops
- ✓ Horti-silvi-pastoral systems & grasslands

Significant Achievements

- 1 Establishment of hydroponic unit for fodder production at Chatha
- 2 Establishment of regional feed and fodder analysis laboratory with improved sample analysis facilities
- 3 Genetic improvement activities for fodder maize under progress at MBRSS, Poonch



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Support to HRD for Technological Backstop for Sustainable & Accelerated Transformation of Agriculture



Project No-29



Holistic Agriculture Development Program, U.T. of J&K

Objectives

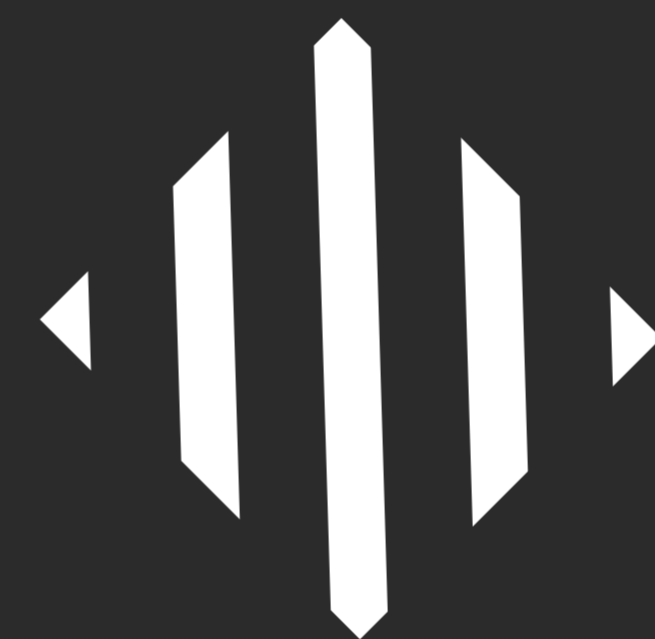
- ✓ VC flexi Fund for for technological backstop
- ✓ Post-graduate student monthly scholarship @ Rs. 5000/-

Interventions

- ✓ Constitution of Vice Chancellors Flexi Grant.
- ✓ Extension of Scholarships to Masters & PhD Students

Significant Achievements

- 1 Provided Scholarship Support to PG and PhD Students @ Rs 5000/- per month
- 2 Purchase of hi-end equipments to strengthen teaching, research & infrastructure development.
 - Gene Gun/Biolistic Gun/Particle Delivery system
 - Nanopore Next Gene Sequencer
 - Real-Time PCR integrated system
 - Automatic Hot Embedding System & Cold plate
 - Fully Automatic Histo-Kinette/ Tissue Processor
 - Fully-Motorized Rotary Microtome
 - Water purification system (Flexible for Type I and II water)



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Holistic Agriculture Development Program (HADP), U.T. of J&K



Duration: Five years
Budget: 5013 crores

VISION & MISSION

Transform J&K's Agricultural Economy as Integrative of Bio-Economy:

- ✔ Transform subsistence agriculture into sustainable commercial Agri-economy.
 - ✔ Emphasis on ecosystem services and, restoration & sustainable utilization of biodiversity to efficiently use bio-resources for food, feed & industry.
 - ✔ Create agri-business ecosystems with inbuilt functional value chain
 - ✔ Promote inbuilt risk management through diversification and resilient & smart agricultural practices.
- Adopt farmer- and community-centric approach for holistic development of agriculture.
Support human resources development for technology backup to sustain and accelerate agricultural transformation.

Major outputs expected from HADP

- ❖ **Seed Replacement:** 33% replacement rate with 2.596 lakh QTLS quality seeds; production boost by 15%-45%.
- ❖ **Niche Crop Production:** Expand 11,000 Ha for niche crops; 5,182 nurseries, 44 seed villages, GI tagging, value chains, and spice/rice mills.
- ❖ **Vegetable Self-Reliance:** Increase production from 19.90 to 25.87 lakh MT; 1,100 hi-tech greenhouses, 3,548 polyhouses.
- ❖ **Post-Harvest Network:** 67,000 MT CA storage; market intelligence support for rural hubs and mandis.
- ❖ **Medicinal & Aromatic Plants:** 5,000 kanals for MAPs; 6 germplasm banks; output goal of ₹750 crores over 15 years.
- ❖ **Honey Production:** Triple output, adding 1.43 lakh bee colonies, 20 CHCs, 2 apitherapy centers.
- ❖ **Silk Production:** Cocoon production boost from 700 MT to 1,350 MT; 10 lakh mulberry plantations.
- ❖ **Millet & Nutri-Cereals:** 14,000 Ha for climate-resilient millets; double productivity with 60 processing units.
- ❖ **Farm Mechanization:** Farm power from 1.74 Kw/ha to 2.5 Kw/ha; 283 Custom Hiring Centres.
- ❖ **Mushroom Production:** Quadruple production; 26 compost units, 72 cropping rooms, and 300 mushroom sheds.
- ❖ **Oilseed Expansion:** Doubling production; 100 extraction units, area up from 1.4 to 2.1 lakh Ha.
- ❖ **Integrated Farming:** Support for 85,000 families; increase income per hectare by 100%.
- ❖ **Flower Cultivation:** Expand flower land to 587 Ha; 54 new nurseries, 330 production units.
- ❖ **Fruit Economy:** 50% increase in fruit economy to ₹15,000 crore; 11 million plantations.
- ❖ **Product Clusters:** 7 clusters with 5 mega clusters (milk, walnut, etc.), generating ₹1,450 crore/year.
- ❖ **Milk Production:** 75% output increase; 500 village milk units, 50 chillers; boost per animal productivity.
- ❖ **Mutton Self-Sufficiency:** Genetic improvement of sheep breeds; 300% wool/pelt returns increase.
- ❖ **Poultry Self-Sufficiency:** 300 feed units, 125 hatcheries; stop ₹1,273 crore capital outflow.
- ❖ **Fish Production:** Double trout and carp production; new hatcheries, fish feed mills, storage units.
- ❖ **Fodder Production:** Reduce fodder deficit by 80%; generate 20 lakh MT from orchards and grasslands.
- ❖ **Kissan Khidmat Centres (K KCs):** 2,000 K KCs for local planning, linking with technical resources.
- ❖ **Irrigation Systems:** 789 borewells, 16,000 Ha with modern irrigation.
- ❖ **Vermicompost Units:** 4,875 units for farmers, plus 200 large commercial units producing bio-compost worth ₹800 crore annually.

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