Monitorable indicators of 29 Projects

Agriculture Production Department
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1. **Development of Seed & Seed Multiplication Chain**
   
i. 500 CSP’s/ SPO’s established engaging 12000 Primary Seed Producers through contract farming.
   
ii. 20,000 employment generation of unemployed youth through seed producing organizations/ primary seed producers.
   
iii. Significant improvisation of SRR, VRR & SMR to fulfill required seed deficit of 2.60 Lakh Qtls as per SRR
   
iv. Seed sufficiency with overall returns at farmer’s level of Rs. 2378.00 Cr.
   
v. 500 agri-preneurs
   
vi. Additional 2000 crores in returns to farmers
   
vii. Seed sufficiency and up to 28% improvement in overall returns to farmers.

2. **Promotion of Niche crops in J&K**
   
i. Enhancement of overall production of niche Crops from 24068 MT to 26639 MT
   
ii. 5182 private/ public sector nurseries and 44 seed villages shall be established for targeted niche crops
   
iii. Area expansion of 11100 Ha
   
iv. GI tag of Niche crops
   
v. 2159 MT of quality planting material, 40000 plants and 10 Cr seedlings
   
vi. Employment creation for 7750 Farmers in PPP Mode.
   
vii. Setting up of 01 Mini Spice Park, 02 Modern Rice Mills and 11 Processing and Handling Units
   
viii. Establishment of 07 growers’ societies & Linking societies with IIKSTC, Pampore FPOs/Firms/Exporters for trade promotion
   
ix. Creation of 29 Bore wells with pressurized irrigation system
   
x. Additional output of Rs. 1293 crores from area expansion
   
xi. 6400 agri-preneurs

3. **Promotion of Vegetables & Exotic Vegetables Under Open & Protected Cultivation**
   
i. 15,000 Ha Area expansion under vegetables
   
ii. 1100 Hi-Tech Greenhouses
   
iii. 3548 Polyhouses
iv. Production shall increase from the present 1991 TMT to 2587 TMT (30 % increase)

v. Deficit decreased from 318 TMT to a surplus of 68 TMT

vi. Value of Produce to increase to Rs. 3982 Cr to Rs. 8021 Cr with an increase of 17%.

vii. Employment Generation 47244 persons

viii. 4648 enterprises created

ix. 15-20% saving in seeds and Fertilizers

x. 20-30% reduction in labour

xi. Increase in cropping intensity from 165 to 250%

xii. Additional output of 3181cr

4. Strengthening Agricultural Marketing in UT of J&K

i. Establishment of 11 CA Stores and 25 mini cold stores with a storage capacity of 67,000 MT

ii. 12 Hi-Tech grading lines (50,000 MT) & 275 potable grading lines (75,000 MT) annually

iii. 35 reefer vans & 25 pickup vans with a Cold Chain transport of 15,000 MT/annum

iv. 4 Mechanized Windrow Composting Units

v. 16 Simple Composting Units

vi. Volume of waste composted: 1,00,000 MT/annum

vii. Volume of bio-compost generated: 5000 MT/annum worth Rs 15 Lac

viii. Establishment of 4 new mandis & establishment of 100 enterprises

ix. Establishment of 55 FPOs

x. 10 Commodities registered on digital portal

xi. 400 Rural Business & Service Hubs (RBSHs) established catering 2 lac farmers & 3 lac Ha

xii. 10 input provisions & 3 services/RSBH

xiii. 80 Trainings/workshops with 20 Branding activities & 3 brands created/established

xiv. Value creation (25-75%)

xv. 2 Agri Branding Centers One Market Intelligence Cell

xvi. Job creation for 6000 people

xvii. 629 enterprises
5. **Promotion of Commercial Cultivation of Medicinal and Aromatic Plants (Map) in the UT Of Jammu and Kashmir**

   i. Enhanced QPM production & Economy (Negligible to 74.76 Cr by 2027)
   ii. Enhanced agricultural income from (30-40% of farmers)
   iii. Waste/Fallow Land utilization of 129 THa (2% utilization of cultivable wasteland)
   iv. Efficient value chain (28 Farmer Producer Clusters)
   v. Trained manpower and skilled youth (3000 youth & Agri-preneurs)
   vi. 15-20% enhanced production and quality by strengthening R&D
   vii. 5K kanals of land potentially to be brought under MAP cultivation
   viii. Employment for 3000 people & 28 enterprises created

6. **Promotion of Bee Keeping**

   i. 333% increase in Bee population to 5 lakhs after five year by establishment of 1.43 new bee colonies
   ii. 2870 new beekeepers will be added for production and growth of beekeeping.
   iii. Tripling of Honey Production from approx. 23000 Qtls to 66100 Qtls
   iv. 20 CHC for enhancing processing facilities
   v. Generation of additional income of Rs. 475 Cr by sale of Bee by products
      a. 6170 Qtl bee wax
      b. 4227.5 Qtl pollen
      c. 1542.5 Qtl Propolis
      d. 154.25 Qtl Royal Jelly
      e. 0.15 Qtl Bee venom
   vi. One center of Excellence to undertake HRD & PHM
   vii. Two Apitherapy centers
   viii. 4526 existing beekeepers will be revived with modern beekeeping equipment and practices
   ix. Enhance crop production by 20 to 25 % and maintain Himalayan ecological system.
   x. Job creation for 8122 people & 86 enterprises created
7. Technological Interventions to Strengthen Sericulture in UT of Jammu & Kashmir

   i. Plantation of 10 Lakh mulberry plants in tree mode.
   ii. Increase in silkworm seed intake 7.0 lakh DFLs/year.
   iii. To achieve a production level of 1350 MT of cocoons at Project end from 700MT.
   iv. Doubling the silk worm production from 8 lac DFLs to 16 lac DFLs
   v. 100 new CRS’s for Supply of Chawki worms to seri farmers
   vi. To stabilize annual seed production capacity of the UT up to 24 lakhs DFLs/annually (three times of present production.
   vii. 200 Adopted Silkworm seed rearers will be supported for up-scaling the seed production.
   viii. Addition of 7000 silk worm rearers
   ix. HRD of 15,000 beneficiaries
   x. Instant market to cocoon produce of 2000 silk worm rearers by establishment of Automatic Reeling Machine

8. Promotion of Nutri-Cereals (Millets) in UT Of JK

   i. Area Expansion by 6000 Ha
   ii. Revival of 8000 ha with better Package & Practices and inputs
   iii. Certified Seed Production of HYV Seeds on 3000 Ha
   iv. Distribution of 550 Qtls of HYVs seeds
   v. Increase Production from 0.80 to 2.80 lakh Qtls & productivity (70%-80%)
   vi. Increase in per Hectare productivity – 10 qtls/ha to 20 qtls/ha
   vii. Cluster Demonstrations of 6000 Ha
   viii. Mini kits distribution for 6000 Ha
   ix. INM/IPM for 6000 Ha
   x. 120 millet mills/restaurants
   xi. 120 seed hubs
   xii. Job creation for 6500 people & 120 enterprises created

9. Farm mechanization for Resource Use Efficiency in Hill Agriculture

   i. Increase in Farm Power from present 1.74 Kw/ha to 2.5 Kw/ha
   ii. Establishment of 303 custom hiring centers
iii. Mechanization of 50 government farms  
iv. 142 AI & Precision farming centers  
v. Decrease in workload on farm labours by 60%  
vi. Increase in cropping intensity by up to 20%  
vii. Job creation of 33600 people & 708 enterprises created  
viii. Increase in agriculture produce from present Rs. 9512 Cr. to Rs. 10938.8 Cr.  
ix. Reduction in cost of cultivation by 20%  
x. Improvement in production and productivity of crops (20-30%)  
xi. Enhancement in income of farmers by reducing cost of cultivation upto Rs. 30000 to 40000 per ha  
xii. 15- 20% saving in seeds and Fertilizers  
xiii. 20-30% reduction in labour

10. Promotion of Round the Year Mushroom Cultivation

i. Establishment of 26 Pasteurized Compost making Units  
ii. Establishment of 72 controlled conditioned cropping rooms  
iii. Establishment of 10 Spawn production Labs  
iv. Establishment of 300 Mushroom Sheds  
v. Distribution of 1.5 lakh pasteurized compost bags  
vi. PHM by Establishment of 4 Mushroom Canning & pickling Unit, distribution of 60 solar dryers  
vii. 3-4 times increase in mushroom output from 21000 Qtls. to 78000 Qtls.  
viii. Doubling productivity of Existing farmers & increased return per unit.  
ix. Creation of 300 women SHGs Skill development of 6600 farmers  
x. Three times increase in number of growers from 2570 to 6610  
xi. Job creation of 1700 & 768 enterprises

11. Promotion of Oilseeds in JK UT

i. Area Expansion 70000 Ha  
ii. Increase in Productivity from 800 Kg/Ha to 1200 Kg/Ha  
iii. 3676 Qtl HYV and Hybrid seed shall be distributed and production of 1500 Qtl of C/F seeds  
iv. 8190 Qtl of seed shall be distributed under mini-kits  
v. Increase in Cropping Intensity (151 to 161%)
vi. 11200 ha area shall be covered under Cluster Demonstrations (10700) and Front-Line Demonstrations (500)

vii. 72,000 ha area shall be covered under INM/IPM

viii. 480 latest improved machinery shall be provided

ix. 300 deep bore wells/ Sprinkler Irrigation shall be installed

tax. 100 Oilseed extractor units for value addition and market linkage

xi. Skill up gradation for 30,000 farmers

xii. Augment the supply of Edible oils and shall reduce the gap in production and demand of vegetable oils by 35%

xiii. Increase in Seed Replacement Rate (50% to 60%)

xiv. Job creation for 5000 people & 100 enterprises

12. Formulation of 300 FPOs

i. Formulation of 300 FPOs

ii. Mobilization of 60000 farmers

iii. Formation of 3,000 FIGs/SHGs

iv. 287 blocks shall be covered

v. Job creation of 7800 people & 300 enterprises shall be established

13. Adoption and Promotion of integrate Farming System (IFS)/ Integrated Livelihood Systems (ILS) in UT of J&K

i. 20,000 farmers from 20 districts shall be identified, profiled and trained in IFS

ii. 10,000 Ha shall be brought under IFS interventions (Incentivization)

iii. Produce 8. 6 lakh Qtl Vermicompost (43 Cr value)

iv. Sequestration of 80,000 MT CO2 equivalent gases from the atmosphere (4.5 lakh plantation of trees).

v. On an average incentive around Rs 9000 per farmer provided.

vi. Doubling of farm Income (1: 2.01 cost benefit Ratio)

vii. Increased in per hectare productivity from existing 90 Qtls /Ha to 22.23 T/Ha

viii. Insure farmers against crop risks

ix. Job creation for 29000 people & 10 enterprises


i. Up gradation of 54 nursery units to high tech. operation
MONITORABLE INDICATORS OF 29 PROJECTS TRANSFORMING THE AGRICULTURE & ALLIED SECTORS IN J&K

ii. 2.25 ha (100 units) of area under cut flower production shall be restored

iii. Increment of 3.7 ha in lilium and 3.3 ha under cut flower under protected conditions

iv. 24 ha of nursery area shall be added

v. Four clusters (total 85 ha) on lavender cultivation

vi. Area under loose flower shall increase to 340 ha from current 115 ha

vii. Area under bulb production shall increase to 36 ha

viii. Area under seed production shall increase to 09 ha

ix. 4600 employments shall be generated

x. Technology upgradation of nurseries shall result in Additional production capacity of 25 lac plants/year with a production value of ₹500 lacs

xi. Addition of production capacity of 250 lac plants Production value of rupees 2500 lacs/year due to area expansion in nurseries

xii. 30-36 lac cut stems shall be added to production

xiii. Production of (12) Lac Cut-liliums/year, 140 lac cut stems/year

xiv. Increment of 1000 Liters of lavender essential oils

xv. 50-60 lac corm production/year in four years, increment of 9 ha in area

xvi. 6000 growers would be trained in critical areas like packaging, value addition, dried flower product development etc.

xvii. 2000 direct beneficiaries & 330 enterprises

xviii. Upgradation of 54 nursery Units/Setting of 22 distillation/seed processing units /Setting up production clusters with market linkage

xix. Skilling of 4000 growers in cluster mode

15. Development of Rainfed Areas of J&K (UT)

i. No. of village development plan demonstrated (2500)

ii. No. of beneficiaries covered (75000)

iii. 30K ha area will be developed as per agroforestry interventions

iv. Digital maps for different sites (map data) showing the interventions (2500 Nos)

v. No. of awareness camps/programs to be organized (2000)

vi. No. of Integrated Farming Systems (IFS)/Integrated Livelihood Systems (ILS) strengthened (5500)

vii. No of Post-Harvest Handling & Agro-processing Facilities in (15)

viii. No. of in-situ conservation plots/models (3500)
ix. Improvement in yield from the rainfed areas kg/ha (cereals: 500-700, pulses: 200-400, millets: 300-500, oilseeds: 200-400)
x. No. of value added products and market linkages established (25)
xi. Skill enhancement (15000)
 xii. Direct employment generation (25500)

16. Alternate Agriculture System for sustainability

i. Expansion in Organic Area production of 4000 Ha involving 10,000 farm families
ii. 2 Microbial Bio- Input Production Cum incubation centers
iii. Approx. 3.8 lakh litres Bio inputs produced
iv. 6.9 L Qtls Vermi Compost (200 Commercial & 3000 Household basis)
v. Reliable Organic Food Chain/ Value chain with in increase in value from 92—143 %
vi. Knowledge Building of Extension Functionaries, Entrepreneurs and participating farmers. (300 Trainings & Capacity Building programs)
vii. 1200 Demonstrations (5 Kanal/Demo)
viii. 100 No Organic IFS/ Clusters
ix. Job creation of 12608 & 302 enterprise creation

17. Standardization of Sensor based Agriculture Practices

i. Automation of agricultural operation with precision in HDPs of Apple, vegetable and livestock.
ii. Increased Resource Use efficiency (50-80 %)
iii. AI based detection of pest and diseases using hand held sensor device
iv. Reduced drudgery and cost of cultivation by 20%
v. Skilled manpower- trained, (post graduate, certificate and diploma holders-100)
vi. Reduced production cost-80%
vii. Precise application of input (30%)
viii. Developed sensor-based grading and sorting system of apple
ix. DSS for pest and disease management, Real time detection and variable rate spray using robotics and Drone
x. Building sensor corridor for livestock and phenotyping and yield prediction
xi. Skilled manpower (Trained graduates, certificate and diploma courses).

xii. Development of startup culture in sensor-based agriculture system

xiii. Job creation of 2500 & 190 enterprises

18. **Minimizing Pesticide use for sustainable Agriculture Production system**

i. 10 cluster orchards at landscape level of 5Ha each.

ii. 20 Custom Hiring Center for Spraying Machines

iii. 100 Agri-entrepreneurs for BioPesticide Production

iv. Web/App based database for farmer guidance in pesticide use decision making.

v. 200 orchards in cluster & 1000 orchards with Advanced Spraying Facilities

vi. Validated Pre harvest Interval of 23 pesticides on apple for maintaining standard MRL values.

vii. Development and documentation of Good agricultural practices in apple

viii. Minimise pesticide use by

a. Low volume sprays 50% (60-70% lesser spray volume)

b. Disease tolerant cultivars 20% (Reduction of 2-4 sprays)

c. Real time advisory 10% (in continuous favorable weather pesticide consumption may increase)

d. Ecological engineering 2-5%

ix. Increased input efficiency uses up to 80%

x. Reduced drudgery by 75%

xi. Overall cost reduction by 35%

xii. Improving A grade fruit quality to 90% from 40%

xiii. 50-70 % pesticide reduction in cluster model orchards

xiv. Job creation for 1500 people & 100 enterprises

19. **Developing J&K Soil and Land Resource Information System (JKSLRI) for Planning and Soil Health Management**

i. Data generation at 4 districts at panchayat level

ii. Intensive soil mapping at 1:10,000 scale

iii. Creation of web-based soil information system

iv. Land evaluation for crop suitability and alternate land use
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v. Establishment of soil testing laboratories in each district 4 at block level and 2 at district level
vi. Capacity and skill development of about 200 rural youths in soil health testing
vii. Authentic soil and land resource repository with soil museum
viii. Policy document on agriculture and urbanization for sustainable ecosystem
ix. Job creation for 1000 people & 200 enterprises

20. Innovative Extension Approaches for Revitalizing Agriculture in J&K

i. 287 clusters with specific agricultural model
ii. 100 FPOs/ FPCs/ CSG
iii. 2000 KKGs as one-stop service centers providing end-to-end linkages (2000 self-employments, one at each KKG)
iv. Centralized facilities at KVKs under different projects
   a. Crop cafeteria (20)
   b. IFS models (20)
   c. Agritourism models (20)
v. Farmers data base with >80% farmer linkage
vi. Dynamic rural connect and resource mapping of 285 blocks
vii. Field Ready Technocrats (2000 students)
viii. Transparency portal (one)
ix. Weather based real-time agro advisories (>52 /yr)
x. Web based Information for all sectors
   xii. Smart Phone applications (10)
xiii. Dynamic and Interactive Tele Service Portal (01)
xiv. Community Radio Station (02)
xv. Production Studio (02)
xvi. Agri-business promotion centers (02)
xvii. Capacity building and knowledge updatation of >4000 professionals/ master trainers
xviii. 2000 entrepreneurs creating 4000 additional employments
xix. Reduced post-harvest losses (5 %)
xx. Increased production of seed & planting material under PPP mode (20%)
xxi. Enhanced farm mechanization and reduced drudgery (10%)
21. **Production of Designer Plants for Promotion of High-Density Plantation and Rejuvenation of Orchards**

   i. Planting Material production of 111 lacs
   ii. Development of 390 Ha area under nurseries in public and private sector
   iii. Rejuvenating 2000 Ha orchard area under different fruit crops
   iv. Producing plant material to cover an area of 5500 Ha under HDP of 12 fruit crops
   v. Development of Plant testing/ quality control lab, (02), Tissue culture lab, (02), Virus indexing labs, (02), one each at Horticulture Department J/K and SKUAST-J and K
   vi. Building capacity by training 5000 farmers (within UT) and international training of 150 participants form SKUAST-J/K and Department of Horticulture J/K officials.
   vii. Increase in productivity and production by 200 %
   viii. Total Wealth Creation of Rs. 15000 Cr
   ix. Employment generation of 25000 per year
   x. Gap in demand and supply reduced by 100%
   xi. Reduction in import by 500 Cr
   xii. Job creation for 25,000 people & 200 No of business units established

22. **UT Level Food Processing Program for Development of Clusters for Specific Products of J&K**

   i. Development of 7 cluster brands
   ii. 17 clusters in J&K
   iii. 20 Lakh MT produce shall be handled
   iv. Employment generation of 7038 & 34 enterprises created
   v. 15-20% post-harvest losses to be handled
   vi. 12 Lakh farmers/FoF to be handled
   vii. Increase in Food processing & Value addition by 2%
   viii. Increase in Productivity by 5%

23. **Dairy Development**

   i. Milk Production increased from 26 LMT to 44 LMT
   ii. Per Animal Productivity from 2400 LPA to 4300 LPA
iii. Increase in AI centers from 1389 to 2189 through 800 Private AI workers
iv. Double output from Semen Stations (from 9 to 19 lacs doses annually)
v. Sexed semen - up to 50% of doses
vi. 110 lakh Ltrs additional milk, value added at village levels every year.
vii. 4 times increase in Milk Collection & Chilling from 2 to 8.5 lakh LPD
viii. Organised processing increased from 2 to 8.5 lakh LPD (7%).
ix. New 400 satellite heifer rearing units
x. New Murrah Buffalo Breeding Farm
xi. New 500 AMCU’s at Village levels
xii. New 50 5KL capacity BMC’s
xiii. 500 SHGs/FPOs under milk umbrella
xiv. 100 village level SHGs/FPOs to undertake value addition
xv. Job creation of 15700 people & 600 enterprises

24. Reorienting priorities: Self-Sustenance in mutton production

i. 2700 elite sheep & goat imported (NZ)
ii. Flight of capital to the tune of ₹1400 Cr will be slashed
iii. Increase the carcass yield from 18kg to 21-24 kg.
iv. 72 breed-based farms – digital records & smart analysis
v. New 400 commercial farms every year
vi. 50 enterprises including 10 new abattoirs integrated with sheep mandis (10), CFCs (50) – Move towards price deregulation
vii. Increase the lambing percentage from 80 to 120 per cent.
viii. Increase the kidding percentage from 120 to 150 per cent.
ix. Decrease in lamb mortality from 10% to 5%.
x. Increase in the number of predominant breeds from 3 to 7-8.
xi. Increase in the breeding cover from 25 to 100 per cent.
xii. Digitization of records and Breeding value estimation
xiii. Introduction of AI in small ruminants. This would be a maiden initiative in small ruminant sector & around 1 lac AIs shall be conducted per year.
xiv. ETT shall be utilized to multiply the elite imported stock (1000 animals per year)
xv. Marketing and value-addition add up to 5-10 per cent for meat and 100 per cent for wool.
xvi. Availability of safe & FSSAI compliant meat
xvii. Job creation for 6000 people & 122 enterprises
25. **Roadmap for Poultry Development in J&K: Local Production (self-reliance) for Local Consumption**:

   i. Establishment of 35 feed manufacturing units
   ii. Creation of 125 breeder farm cum hatcheries
   iii. Establish 200 layer farms of 10000 Capacity in commercial sector
   iv. Establish 66 new mother units
   v. Establish 2000 new horti-poultry/free range units
   vi. Rear 1 crore birds under backyard & horti-poultry systems.
   vii. Produce 60 crore eggs & 6500 MT of free-range meat
   viii. Placement of 100% DOCs in broiler Farms from chicks produced locally

26. **Technological Intervention for Fish Seed and Trout Production in UT of J&K**.

   i. Double fish production.
   ii. Increase the growth rate from Growth rate – 3.28% to 41%
   iii. Increase the Trout Production from 1663 tons to 4000 tons
   iv. Enhancement in Fish seed production from 14.78 to 30 millions.
   v. Establishment of 12 Two-three tier hatcheries
   vi. Establishment of 10 trout & 2 carp hatcheries
   vii. Establishment of 12 trout & 10 carp Feed Mills
   viii. Establishment of 500 Carp – RAS Backyard units & 120 Biofloc units
   ix. Two lakh genetically modified eyed ova shall be imported.
   x. Establishment of 1100 trout Race ways & 200 carp Units
   xi. Establishment of 290 trout RAS units (Mega=40; Medium=50; Small = 200)
   xii. Establishment of 4 Disease and Quality Testing labs
   xiii. Establishment of 4 Mobile Clinics/vans
   xiv. Commissioning of 12 Refrigeration vehicles
   xv. Establishment of 4 Cold storage/ice plants
   xvi. 30 % reduction in cost of seed as survival rate will increase.
   xvii. Employment to 6050
   xviii. Enterprises established 150
   xix. Post-harvest loss reduction (28 %)
27. Promotion of Wool & Pelt for Effective Processing and Marketing

i. Magnification of the wool/pelt availability for processing and cottage industry through aggregation and collectivism

ii. Creation of 40 FPO’s for aggregation, forward & backward linkages, primary processing and product development

iii. Establishment of 20 CFC infrastructure on cluster basis linkages & integration with FPO’s

iv. R&D for production of diversified range of value added wool and pelt based products

v. Integration with the fashion design institutes for the consumer centric designing and style

vi. Conservation & branding of ITK’s and business opportunities to the cottage industry

vii. Employment 1250

viii. Enterprises 40

ix. Enhancement of income of the farmers/pelt collectors/stakeholders by 2 to 3 times

28. Development of fodder resources for UT of J&K

i. Farmer demo plots on 4100 ha/year

ii. 300 hay-silage making units

iii. Creation of 25 fodder depots

iv. Creation of 500 hydroponic units (15,000 MT green fodder output)

v. 30-40% increase in productivity from fodder crops by use of improved varieties

vi. 15 lac MT of fodder (15% of deficit) from 60,000 Ha (25% of total) orchards

vii. 3.75 Lakh MT of fodder from forest closures (25,000 ha)

viii. 1.0 Lakh MT of fodder from alpine & sub-alpine grasslands (20,000 ha)

ix. Reduction of fodder deficit by 80%

x. Job creation for 7500 people & 800 enterprises

29. Support to Human Resource Development for Technological Backstop for sustainable & accelerated Transformation of Agriculture

i. 18,100 highly motivated & skilled post graduates in various agricultural fields

ii. Making Universities as an idea bank of innovations, patents and commercialized technologies

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