



CLIMATE SMART GRAM PANCHAYAT

SUMMARY OF RECOMMENDATIONS

Shravasti

Sarvan Tara Gram Panchayat

Department of Environment,
Forest and Climate Change

Government of Uttar Pradesh





Enhancing Green Spaces and Biodiversity

- Community-based plantations
- Creation of nursery
- *Arogya Van*
- People's Biodiversity Register (PBR)
- Agroforestry

Short Term

Plantation of 1,500 tree saplings | Sequestration potential (in 15-20 years): 15,600 tCO₂ | Establishment of 1 nursery | Establishing *Arogya Van* on 0.1 ha allocated land | Updation of PBR

Medium Term

Plantation of 1,500 to 2,000 tree saplings | Sequestration potential (in 15-20 years): ~20,000 tCO₂ | Adoption of Agroforestry in ~22 ha land | Sequestration potential (in 15-20 years): ~22,000 tCO₂

Long Term

Adoption of agroforestry in additional ~32 ha land | Sequestration potential (in 15-20 years): ~23,400 tCO₂

Key Departments

Department of Environment, Forests and Climate Change | State Biodiversity Board | Panchayati Raj Department | Rural Development Department | Central Institute of Medicinal and Aromatic Plants, Lucknow

Estimated Cost

Over ₹68.3 lakhs over 3 phases (Short Term: ~₹21.3 lakhs | Medium Term: ~₹34.2 lakhs | Long Term: ~₹12.8 lakhs)

Management and Rejuvenation of Water Bodies

- Rainwater harvesting
- Restoration of ponds
- Repair of wells
- Tree plantations
- Recharge pits
- Enhancing drainage infrastructure
- Wastewater management

Short Term

Installation of RwH structures in all PRI buildings | Restoration and boundary construction of 4 ponds, ~1,000 trees planted around water bodies | Cleaning and repair of 17 wells | Construction of 45 recharge pits | Elevation of 15 hand pumps | Construction of 1.3 km drainage network | Cleaning of Goolwa drain | Construction of 1 community toilet

Medium Term

Maintenance of ponds, drainage channels and other water-related infrastructure | Installation of RwH structures in 3 households | Additional recharge pits constructed as per need | 1,000 additional saplings planted around water bodies

Long Term

Continued maintenance of water resources, related infrastructure, and wastewater infrastructure, | Installation of RwH structures in 12 households

Departments

Rural Development Department | Irrigation and Water Resources Department | Uttar Pradesh Department of Land Resource

Estimated Cost

Over ₹2.4 crores across three phases (Short Term: ~₹1.9 crores | Medium Term: ~₹27.3 lakhs | Long Term: ~₹30.45 lakhs)

Sustainable Agriculture

- Micro-irrigation
- Farm ponds
- Bund construction
- Resilient farming practices

Short Term

Introduction of micro-irrigation on 11 ha | Construction of 4 farm ponds | Bund construction with trees around ~50 ha | Transitioning 15 ha (15%) of agricultural land to natural farming | Training of 2 para vets

- Transition to natural farming
- Sustainable livestock management

Medium Term

Expanding micro-irrigation on 15 ha | Additional 10 farm ponds constructed | Bund construction with trees around ~101 ha | Transitioning ~25 ha (40% cumulative) to natural farming

Long Term

Expanding micro-irrigation on 11 ha | Maintenance of infrastructure | Additional ~60 ha (100% cumulative) transition to natural farming

Departments

Department of Agriculture | Centre for Integrated Pest Management (CIMP) | Department of Horticulture and Food Processing | Department of Land Resources | Jal Shakti Department | Animal Husbandry Department | Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) | Regional Centres for Organic Farming | Krishi Vigyan Kendra, Shravasti

Estimated Cost

Over ₹3.1 crores across three phases (Short Term: ~₹65.8 lakhs | Medium Term: ~₹88.1 lakhs | Long Term: ~₹1.6 crores)

Sustainable Solid Waste Management

- Enhanced waste management infrastructure
- Compost pits
- Sanitation management
- Ban on single-use plastics

Short Term

Setting up segregation and storage facility | Installation of 20 bins | Procurement of 1 electric garbage van | Setting up of 65 compost pits | Engagement of 100 women for manufacturing plastic-alternative products (SHG alignment)

Medium and Long Term

Installation of additional waste bins and maintenance of existing infrastructure | 1 GP-level plastic shredder unit | Scaling up partnerships | Regular awareness, training, and capacity-building programs

Departments

Panchayati Raj Department | Department of Health and Family Welfare | Department of Rural Development | Department of Agriculture | Uttar Pradesh Khadi and Village Industries Board

Estimated Cost

Approx ₹9.7 lakhs over three phases

Access to Clean, Sustainable, Affordable and Reliable Energy

- Solar rooftop installations
- Solar-powered pumps
- Agro-photovoltaics
- Clean cooking solutions- Household biogas, Solar induction cookstoves, improved chulhas, LPG
- Energy efficient (EE) fixtures
- Solar street light

Short Term

Solar rooftop installation on all government buildings; Solar potential: 21 kWp | Mitigation potential: 23 tCO_{2e} per year | Solar rooftop installation for suitable residential buildings | Suitable households to adopt clean cooking interventions like household biogas, solar induction cookstoves and improved chulhas | Replacing existing fixtures in all government buildings with energy efficient fixtures (LED lights, EE fans) | Installation of 2 solar high masts (Panchayat Bhawan and Primary school) | Installation of 45 solar street lights at key locations in GP

Medium Term

Solar rooftop installation on 55% of pucca houses (61) | Agro-photovoltaic installed on ~2.1 ha | 24 diesel pumps replaced with solar pumps | Solar potential: ~315 kWp | Mitigation potential: ~225 tCO_{2e} per year

Long Term

Solar rooftop installation on 100% of pucca houses (92) | Agro-photovoltaic installed on ~4.2 ha of agricultural land | 40 diesel pumps replaced with solar pumps | Replacing all CFL light fixtures with LED tube lights/ bulbs; installation of EE fans across households | Solar potential: ~496 kWp | Mitigation potential: 342 tCO_{2e} per year

Departments

Ministry of New and Renewable Energy (MNRE) | Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) | Uttar Pradesh Power Corporation Limited (UPPCL) | Madhyanchal Vidyut Vitran Nigam Limited | Panchayati Raj Department | Rural Development Department | Department of Agriculture | Education Department

Estimated Cost

Over ₹20 crores across three phases (Short Term: ~₹63.1 lakhs | Medium Term: ~₹6.5 crores | Long Term: ~₹13.4 crores)

Sustainable and Enhanced Mobility

- Road infrastructure
- Enhancing public transport
- E-vehicles and E-tractors

Short Term

Repairing and maintenance of road infrastructure | Road elevation on ~3.6 km | Introducing 5 e-auto rickshaws in the GP | Promoting adoption of 5 e-tractors and 5 e-goods carriers

Medium Term and Long Term

Maintenance of existing infrastructure | Expanding public transport (as required)

Departments

Infrastructure and Industrial Development Department | Transport Department | Panchayati Raj Department | Department of Rural Development | Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA)

Estimated Cost

Over ₹2.2 crore across three phases

Enhancing Livelihoods and Green Entrepreneurship

- Engaging SHGs to manufacture sustainable products
- Organic fertilizer production
- E-tractor and e-goods carrier rental services
- Solar powered cold storage facility
- Production and sale of natural medicines and supplements
- O&M of RE installations

Short Term

Capacity building, training, and support for 100 women and other entrepreneurs to establish enterprises across the GP | Involving 10 SHGs | Establishing partnerships between Panchayat, community members, FPOs for marketing and selling of compost | Training of community members

Medium Term

Expanding capacity building programs to cover 200 more women and other groups as per need and enhancing marketing of products and services | Setting up of cold storage (5-10 MT capacity)

Long Term

Continue scaling entrepreneurship opportunities and strengthening market linkages

Departments

Panchayati Raj Department | Department of Rural Development | Department of Horticulture and Food Processing | Uttar Pradesh Skill Development Mission | UP State Council for Vocational Training

** Expansion of suggested climate smart activities and regular maintenance of any installations and infrastructure throughout the plan implementation and beyond.*

Please refer to action plan for detailed recommendations