



CLIMATE SMART GRAM PANCHAYAT

SUMMARY OF RECOMMENDATIONS

Sant Ravidas Nagar

**Domanpur Chiwathiya
Gram Panchayat**

**Department of Environment,
Forest and Climate Change**

Government of Uttar Pradesh





Management and Rejuvenation of Water Bodies

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

Short Term

Installation of RWH structures in all PRI buildings (3) | Rejuvenation of 3 ponds | ~1,000 trees planted around water bodies | Construction of 20 recharge pits | Repairing of 9 wells and 4 handpumps | Construction of ~2.5 km drainage network | Wastewater treatment through 200 KLD DEWATs and soak pits | Village Water Security Plan preparation

Medium Term

Maintenance of ponds, drainage channels and other water related infrastructure | Installation of RWH structures in 63 households | Additional ~1,000 trees planted around water bodies

Long Term

Continued maintenance of water resources | Installation of RWH structures in 105 households

Key Departments

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

Estimated Cost

Over ₹2.41 crores over three phases (Short Term: ~₹1.6 crores | Medium Term: ~₹33.3 lakhs | Long Term: ~₹48 lakhs)

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 15 waste bins | Procurement of 1 electric garbage van | Construction of toilets in all new houses constructed and 2 community toilets | Setting up of 10 Nadep compost pits and 20 vermicompost pits | Ban on single-use plastics | Engagement of 100-120 women for manufacturing plastic-alternative products (SHG alignment)

Medium and Long Term

Installation of additional waste bins | Maintenance of existing infrastructure | Scaling up partnerships | Regular awareness, training and capacity-building programs | Engagement of additional 200 women for manufacturing plastic-alternative products (SHG alignment)

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 ~₹32.2 lakhs over three phases

Sustainable Agriculture

- Drought Management
- Micro-irrigation
- Tree Bunds
- Farm ponds
- Transition to natural farming
- Integrated pest management
- Setting up mini-weather station
- Sustainable livestock management

Short Term

Introduction of micro-irrigation in ~ 15 ha | Tree bunds in 96.1 ha (50% of total agricultural area) | Construction of 10 farm ponds | Setting up 1 mini weather monitoring station | Transitioning 28 ha (15%) of agricultural land to natural farming

Medium Term

Tree bunds in remaining 96.1 ha (100% covered) | Additional farm ponds as per need | Transitioning 77 ha (40%) of agricultural land to natural farming

Long Term

Maintenance of infrastructure | Transitioning 87 ha (100% covered) of agricultural land to natural farming

Departments

Department of Agriculture | Department of Horticulture and Food Processing | CIPM - Centre for Integrated Pest Management | Department of Land Resources | Jal Shakti Department | Animal Husbandry Department | Uttar Pradesh New & Renewable Energy Development Agency | Regional Centres for Organic Farming | Krishi Vigyan Kendra, Sant Ravidas Nagar

Estimated Cost

Over ₹5.1 crores across three phases (Short term: ₹96.7 lakhs | Medium term: ₹1.9 crores | Long term: ₹2.2 crores)

Enhancing Green Spaces and Biodiversity

- Plantation of trees
- Agroforestry
- Arogya Van
- People's Biodiversity Register

Short Term

Plantation of 2,000 tree saplings | Sequestration potential: ~20,000 tCO₂ in 15-20 years | Establishing Arogya Van on 0.1 ha allocated land

Medium Term

Plantation of 2,000 to 2,500 tree saplings | Adoption of Agroforestry in ~71 ha land (7,100 trees planted) | Sequestration potential: ~96,000 tCO₂ in 15-20 years

Long Term

Additional 2,500 to 3,000 saplings planted | Adoption of Agroforestry in ~ 106 ha land (10,600 trees planted) | Sequestration potential: ~1,36,000 tCO₂ in 15-20 years

Departments

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

Estimated Cost

Over ₹1.7 crores across three phases (Short term: ₹25.7 lakhs | Medium term: ₹60.1 lakhs | Long term: ₹80.5 lakhs)

Access to Clean, Sustainable, Affordable and Reliable Energy

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

Short Term

Solar rooftop installation on all government buildings | Solar rooftop installation for suitable residential buildings | Solarization of 15 grid connected electric pumps | 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 50 solar LED street lights and 10 high-mast solar LED at key locations in GP | Solar potential: 30 kWp | Mitigation potential: 33 tCO_{2e} per year

Medium Term

Solar rooftop installation on 50% of pucca houses | Agro-photovoltaic installed on 2 ha | Installation of 50 solar LED streetlights and 5 high-mast solar LED | Solar potential: ~500 kWp | Mitigation potential: ~549 tCO₂e per year

Long Term

Solar rooftop installation on remaining 50% of pucca houses | Agro-photovoltaic installed on 2 ha | Replacing all CFL light fixtures with LED tube lights/ bulbs; installation of energy efficient fans across households | Solar potential: ~500 kWp | Mitigation potential: ~549 tCO₂e per year

Departments

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

Estimated Cost

Over ₹10.9 crores across three phases (Short term: ~₹67.8 lakhs | Medium term: ~₹5.2 crores | Long term ~₹5.1 crores)

Sustainable and Enhanced Mobility

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

Short Term

Repairing and maintenance of road infrastructure | Replacing 3 auto rickshaws with e-autorickshaws | Establishing hiring facility with 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 ₹1.9 crores 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 8 SHGs | Establishing partnerships between Panchayat, community members, farmer groups for marketing and selling of compost | Training of community members

Medium Term

Expanding capacity building programmes 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