



CLIMATE SMART GRAM PANCHAYAT

SUMMARY OF RECOMMENDATIONS



Rampur

Ajeetpur Gram Panchayat

Department of Environment, Forest and Climate Change
Government of Uttar Pradesh





Management and Rejuvenation of Water Bodies

- Rainwater harvesting
- Recharge pits
- Cleaning of wells
- Enhancing drainage infrastructure

Short Term

Installation of RWH structures in all (4) PRI buildings | Reboing of 13 handpumps | Repairing 20 handpumps | Construction of new drains and cleaning of existing ones | Village Water Security Plan preparation

Medium and Long Term

Installation of RWH structures in suitable residential buildings | Regular maintenance of drainage channels and other water related infrastructure

Departments

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

Estimated Cost

Over ₹24 lakhs across three phases

Sustainable Solid Waste Management

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

Short Term

Setting up segregation and storage facility | Installation of 20 bins | Procurement of 6 electric garbage van | Construction of twin-pit toilets in 155 households | Construction of 3 community toilets | Engagement of 100-120 women for manufacturing plastic-alternative products (SHG alignment)

Medium Term

Installation of additional waste bins and maintenance of existing ones | Construction of twin-pit toilets in 155 additional households | Construction of toilets in all new houses constructed | Scaling up partnerships | Regular awareness, training and capacity-building programs

Long Term

Maintenance of all waste management infrastructure | Construction of twin-pit toilets in 207 households

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

Over ₹1.1 crore across three phases (Short Term: ~₹46 lakhs | Medium Term: ~₹31 lakhs | Long Term: ~₹41 lakhs)

Enhancing Green Spaces and Biodiversity

- Community based plantation of trees
- Agroforestry
- *Arogya Van*
- People's Biodiversity Register

Short Term

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

Medium Term

Plantation of 2,000 to 2,500 tree saplings | Adoption of agroforestry in ~49.3 ha land (4,930 trees planted) | Sequestration potential (in 15-20 years): up to 74,300 tCO₂

Long Term

Additional 2,500 to 3,000 saplings planted | Adoption of agroforestry in ~74 ha land (7,400 trees planted) | Sequestration potential (in 15-20 years): up to 1,04,000 tCO₂

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 ₹1.4 crores across three phases (Short Term: ~₹25 lakhs | Medium Term: ~₹51 lakhs | Long Term: ~₹67 lakhs)

Sustainable Agriculture

- Bund construction
- Farm ponds
- Need based nutrient management in crops
- Promotion of diverse cropping systems
- Transition to natural farming
- Sustainable livestock management

Short Term

Construction of bunds on 64 ha of agricultural land | Construction of 5-10 farm ponds | Transitioning 19 ha (15%) of agricultural land to natural farming

Medium Term

Construction of bunds on remaining 64 ha of agricultural land | Transitioning 51 ha (additional 40%) to natural farming

Long Term

100% transition to natural farming (58 ha) | Maintenance of infrastructure

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, Rampur

Estimated Cost

Over ₹3.6 crores across three phases (Short Term: ~₹92 lakhs | Medium Term: ~₹1.2 crores | Long Term: ~₹1.4 crores)

Access to Clean, Sustainable, Affordable and Reliable Energy

- Solar rooftops
- Agro-photovoltaics
- Solar-powered pumps
- 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 | 25 diesel pumps replaced with solar 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 25 solar street lights at key locations in GP | Solar potential: ~157.5 kWp | Mitigation potential: ~48.2 tCO₂e per year

Medium Term

Solar rooftop installation on 40% of pucca houses (158) | Agro-photovoltaic installed on 2 ha | 25 diesel pumps replaced with solar pumps | Installation of 25 solar street lights at key locations in GP | Solar potential: ~637.5 kWp | Mitigation potential: ~575.2 tCO₂e per year

Long Term

Solar rooftop installation on 100% of pucca houses (237) | Agro-photovoltaic installed on 2 ha | Purchase of all new pumps to be solar-powered | Replacing all CFL light fixtures with LED tube lights/ bulbs; installation of EE fans across households | Solar potential: ~500 kWp | Mitigation potential: ~549 tCO₂e 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) | Paschimanchal Vidyut Vitran Nigam Limited | Panchayati Raj Department | Rural Development Department | Department of Agriculture | Education Department

Estimated Cost

Over ₹12.5 crores across three phases (Short Term: ~₹84 lakhs | Medium Term: ~₹6 crores | Long Term: ~₹5.6 crores)

Sustainable and Enhanced Mobility

- Enhancing intermediate public transport
- E-vehicles and e-tractors

Short Term

Replacing 10 auto-rickshaws with e-auto rickshaws | Promoting adoption of 5 e-tractors and 5 e-goods carriers

Medium and Long Term

Replacing 5 auto-rickshaws with e-auto rickshaws | Expanding public transport (as required) | Maintenance of existing infrastructure

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 ₹1.3 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 11 SHGs | Establishing partnerships between Panchayat, community members, FPOs 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