



CLIMATE SMART GRAM PANCHAYAT

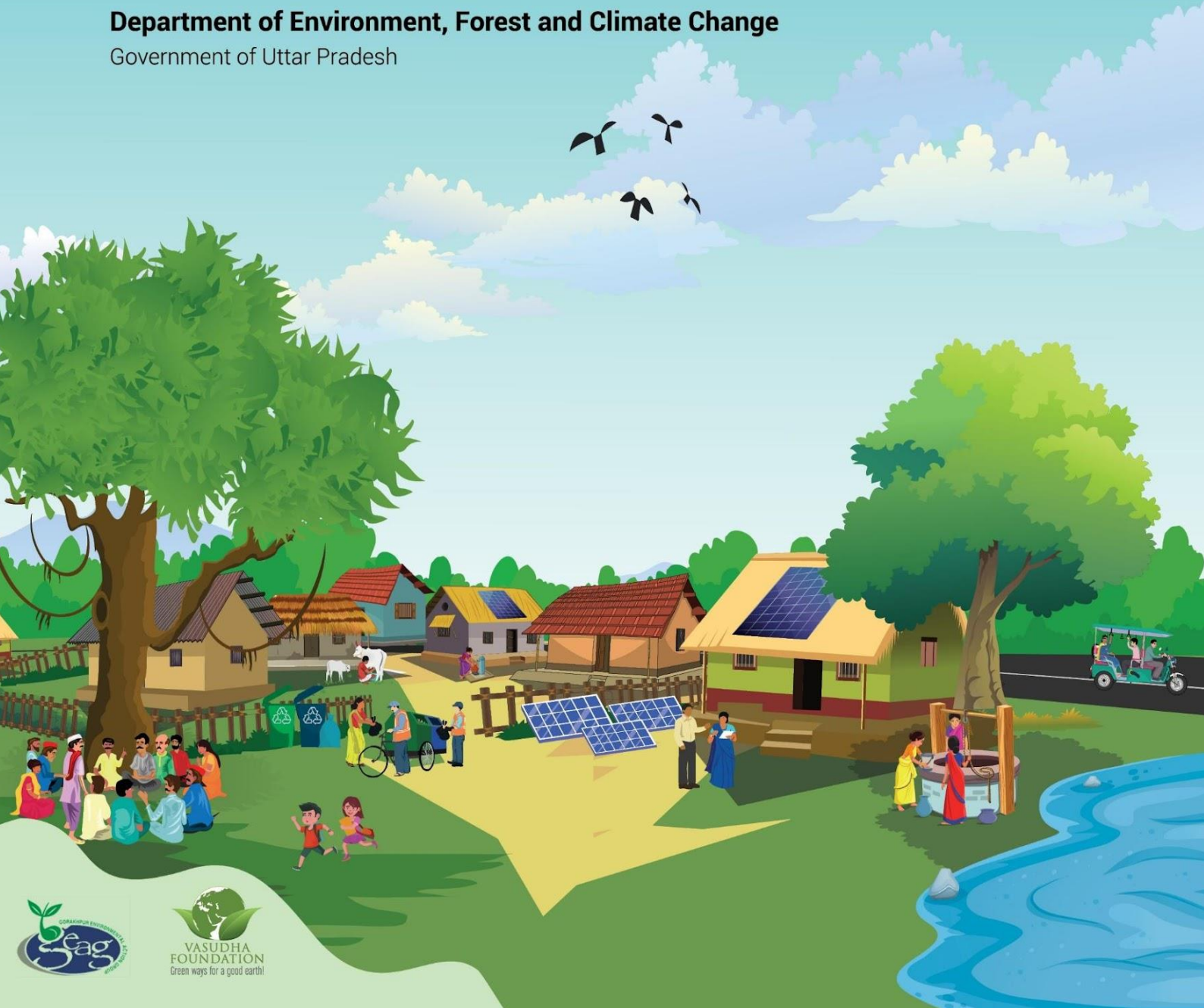
SUMMARY OF RECOMMENDATIONS

Sakraura Gram Panchayat

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



Gonda





Management and Rejuvenation of Water Bodies

- Rejuvenation of ponds
- Tree plantations
- Retention ponds
- Enhancing drainage infrastructure
- Rainwater Harvesting
- Groundwater recharge and conservation
- Capacity building

Short Term

Rejuvenation of 11 ponds | ~1,000 trees planted around water bodies | Installation of 16 hand pumps | Construction of 5 retention ponds | Installing 4 siphons | Installation of RWH structures in all PRI buildings (5) | Construction of 60 recharge pits

Medium Term

Maintenance of ponds, siphons, and other water-related infrastructure | Additional trees planted around water bodies | Construction of 10 retention ponds | Installation of RWH structures in 245 pucca households | Additional 65 recharge pits constructed

Long Term

Continued maintenance of water resources | Installation of RWH structures in 621 pucca households

Key Departments

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

Estimated Cost

Over ₹6.2 crores across three phases (Short Term: ~₹1.2 crores | Medium Term: ~₹2 crores | Long Term: ~₹3 crores)

Sustainable Agriculture

- Micro-irrigation
- Bunds
- Farm ponds
- Transition to natural farming
- Sustainable livestock management

Short Term

Introduction of micro-irrigation on 73 ha | Ensure bunds on 250 ha agricultural land | Construction of 5-10 farm ponds | Transitioning 96 ha (15%) of agricultural land to natural farming

Medium Term

Expanding micro-irrigation on 96 ha | Expanding bunds to another 250 ha agricultural land | Additional 15-20 farm ponds | Transitioning 256 ha (40%) to natural farming

Long Term

Expanding micro-irrigation on 73 ha | Maintenance of bunds and farm ponds | 100% 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 | Agriculture Technology Management Agency (ATMA) | Animal Husbandry Department | Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) | Regional Centres for Organic Farming | Krishi Vigyan Kendra, Gonda

Estimated Cost

Over ₹18 crores across three phases (Short Term: ~₹3 crores | Medium Term: ~₹7 crores | Long Term: ~ ₹7.8 crores)

Sustainable Solid Waste Management

- Establishing a waste management system
- Compost pits
- Ban on single-use plastics

Short Term

Setting up resource recovery center for collection, segregation, and storage facility | Procurement of 1 electric garbage van | Installation of 16 waste

bins | Setting up of 100 vermicompost and 20 Nadep 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 and maintenance of existing infrastructure | 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 ₹13 lakhs across three phases



Sustainable and Enhanced Mobility

- Enhancing existing road infrastructure
- Enhancing public transport
- E-vehicles and E-tractors

Short Term

Road elevation and RCC works | Construction of new link road | Replacing 20 diesel autorickshaws with e-autorickshaws | Mitigation potential: 39 tCO₂e Establishing hiring facility with 5 e-tractors and 5 e-goods carriers

Medium 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 crores across three phases



Enhancing Green Spaces and Biodiversity

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

Short Term

Plantation of 1,000 tree saplings | Sequestration potential (in 15-20 years): up to 10,000 tCO₂ | Establishing Arogya Van on 0.1 ha allocated land | Establishing one horticulture nursery

Medium Term

Plantation of 1,000 to 1,500 tree saplings | Adoption of Agroforestry in ~78 ha land | Sequestration potential (in 15-20 years): up to 90,500 tCO₂

Long Term

Additional Plantation of 1,000 to 1,500 tree saplings | Adoption of Agroforestry in ~117 ha land | Sequestration potential (in 15-20 years): up to 1,29,500 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 ₹1.25 crores across three phases (Short Term: ~₹16 lakhs | Medium Term: ~₹47 lakhs | Long Term: ~₹63 lakhs)

Access to Clean, Sustainable, Affordable and Reliable Energy

- Solar rooftops
- Solar-powered pumps
- Agro-photovoltaics
- Solar pumps
- Clean cooking solutions- Community biogas plant, improved chulhas
- Energy efficient (EE) fixtures
- Solar street lights

Short Term

Solar rooftop installation on all government buildings | 26 diesel pumps replaced with solar pumps | Setting up 25 m³ community biogas plant | Suitable households to adopt improved chulha | Replacing existing fixtures in all government buildings with energy efficient fixtures (LED lights, EE fans) | Installation of 30 solar LED street lights and 4 high mast solar LED street lights at key locations in GP | Solar potential: ~188 kWp | Mitigation potential: ~76 tCO_{2e} per year

Medium Term

Solar rooftop installation on 40% of pucca houses (350) | Agro-photovoltaic installed on 2 ha | 26 diesel pumps replaced with solar pumps | Suitable households to adopt improved chulha | Replacing all CFL light fixtures with LED tube lights/ bulbs; installation of energy efficient fans across households | Installation of 30 solar LED street lights at key locations in GP | Solar potential: ~1,694 kWp | Mitigation potential: ~1,730 tCO_{2e} per year

Long Term

Solar rooftop installation on 100% of pucca houses (526) | Agro-photovoltaic installed on 2 ha | Solarisation of 50 grid-connected electric pumps | Replacing all CFL light fixtures with LED tube lights; installation of energy efficient fans across households | Solar potential: ~2,900 kWp | Mitigation potential: ~2,280 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: ~₹69 lakhs | Medium term: ~₹9.5 crores | Long term: ~₹10 crores)

Enhancing Livelihoods and Green Entrepreneurship

- Engaging SHGs to manufacture sustainable products
- Organic fertilizer production
- E-goods carriers and E-tractors rental services
- Solar-powered cold storage facility
- Improving livelihoods through Aquaculture
- 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 12 SHGs | Establishing partnerships between Panchayat, community members, FPOs for marketing and selling of compost | Training of community members | Promotion of sustainable aquaculture practices

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 | State Fisheries Development Board | 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