



Barabanki

# CLIMATE SMART GRAM PANCHAYAT

## SUMMARY OF RECOMMENDATIONS

### ALLAPUR RANIMAU 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 (5) PRI buildings | Rejuvenation of 5 ponds, ~1,000 trees planted around water bodies | Construction of 10 recharge pits | Construction of 1.45 km drainage network | Wastewater treatment through 0.5 MLD 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 22 households | Additional soak pits constructed as per need

### Long Term

Continued maintenance of water resources | Installation of RWH structures in 135 households

### Key Departments

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

### Estimated Cost

Over ₹2.3 crores across three phases (Short Term: ~₹1.1 crores | Medium Term: ~₹52.9 lakhs | Long Term: ~₹66 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 125 bins | Procurement of 1 electric garbage van | Setting up of compost pits | Construction of toilets in all new houses constructed | 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

### 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 ₹24.22 lakhs across three phases

## Sustainable Agriculture

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

### Short Term

Introduction of micro-irrigation on 60 ha | Bunds on 85 ha agricultural land (50%) | Construction of 5 farm ponds| Transitioning 26 ha (15%) of agricultural land to natural farming

### Medium Term

Expanding micro-irrigation on 120 ha | Bunds on additional 85 ha agricultural land (100%) | Additional farm ponds | Transitioning 43 ha (25%) to natural farming

### Long Term

Maintenance of infrastructure | 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 | Animal Husbandry Department | Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) | Regional Centres for Organic Farming | Krishi Vigyan Kendra, Barabanki

### Estimated Cost

Over ₹5.4 crores across three phases (Short term: ~₹1.2 crores | Medium term: ~₹1.6 crores | Long term: ~₹2.5 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 (in 15-20 years): 15,600 tCO<sub>2</sub> | Establishing Arogya Van on 0.1 ha allocated land

### Medium Term

Plantation of 2,000 to 2,500 tree saplings | Adoption of Agroforestry in ~4 ha land | Sequestration potential (in 15-20 years): up to 29,000 tCO<sub>2</sub>

### Long Term

Additional 2,500 to 3,000 saplings planted | Sequestration potential: 23,400 tCO<sub>2</sub>

### 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 ₹85 lakhs across three phases (Short term: ~₹25 lakhs | Medium term: ~₹27.8 lakhs | Long term: ~₹31.7 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 | 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 100 solar street lights at key locations in GP | Solar potential: 28 kWp | Mitigation potential: 31 tCO<sub>2e</sub> per year

### Medium Term

Solar rooftop installation on 40% of pucca houses (167) | Agro-photovoltaic installed on 2 ha | 50 diesel pumps replaced with solar pumps | Solar potential: ~1,001.6 kWp | Mitigation potential: ~1,205 tCO<sub>2e</sub> per year

### Long Term

Solar rooftop installation on 100% of pucca houses (251) | Agro-photovoltaic installed on 2 ha | 50 diesel pumps replaced with solar pumps | Replacing all CFL light fixtures with LED tube lights/ bulbs; installation of EE fans across households | Solar potential: ~751 kWp | Mitigation potential: 1,480 tCO<sub>2e</sub> per year

## Departments

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 ₹16.11 crores across three phases (Short Term: ~₹1.32 crores | Medium Term: ~₹7.43 crores | Long Term: ~₹7.35 crores)

## Sustainable and Enhanced Mobility

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

### Short Term

Repairing and maintenance of road infrastructure | Introducing 3 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 ₹88 lakhs 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.

### Medium Term

Expanding capacity building programmes to cover 50 more women and other groups as per need and enhancing marketing of products and services.

### 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**