Sustainable Agriculture

- Establishment of real time weather monitoring and information dissemination system
- Building climate resilience in livestock sector
- Impact assessment of climate change on fisheries
- Improved post-harvest management of food crops
- Facilitate modern cropping techniques
- Development of mechanism for disease detection for livestock
- Impact assessment on paddy cultivation
- Adoption of System of Rice Intensification (SRI)
- Encourage organic farming, use of bio-fertilizers and bio-pesticides
- Mass production of resistant varieties for distribution to the farmers
- Promotion of disease and stress tolerant crop varieties
- Promotion of horticulture
- Adoption of efficient pest and insect management
- Promote rain water harvesting for irrigation

Sustainable Habitat

- Incorporate climate concerns in urban water supply and sewage design
- Capacity building of departments and stakeholders associated with urban affairs
- Stabilisation of slopes in the vicinity of the urban centres
- Development of urban green spaces
- Urban poor mapping to identify vulnerable population
- Working towards greater water use efficiency and water conservation in urban areas
- Developing a climate friendly urban waste management systems
- Development of satellite townships
- Spread composting culture in the urban populace
- Improve enforcement to control vehicular pollution and promotion of public transport facility

Sustainable Forestry

- Training and capacity building of line department and community
- Expansion of forests through Restoration of wastelands
  - a. Training needs analysis of the concerned line department.
  - b. Developing of training material and module.
- Institutional capacity building and management
- Reducing deforestation and applying sustainable forest management practices
- Using plantation species better adapted to future climate conditions
- Introducing anticipatory planting
- Making use of plantations to supply an increasing demand for wood
- Converting plantations to more natural forest types
- Enhancing local welfare by promoting community-based forest management and restoration
- Offering training in management, manufacturing and marketing of NTFPs
- Supporting efforts to improve welfare through sound governance, strengthening institutions
- Evaluation of forest ecosystem services
- Forest fire management
  - Quick response teams for fire fighting
  - Regular monitoring of fire threats with the help of satellite imagery and information technology
  - Utilization of pine needles as an energy-efficient eco-friendly energy source in the form of briquettes
  - Utilization of pine needles for making pine needle check dams and in biogasifier for production of electricity and collection of pine needles instead of controlled burning
- Promotion of Ecotourism
- Promotion and Investment of NTFP and indigenous forest resources
- Promoting Ecosystem - based adaptation/ synergizing mitigation and adaptation
- Greater participation and education, greater accountability, reinforced monitoring and community access to benefits
- Assessment of Biodiversity
- Monitoring of invasive species and insect outbreaks
- State-wide implementation of REDD+
  - Increasing the genetic diversity of trees used in plantations
  - Developing strategies for dealing with forest insects, pathogens, and invasive species and applying phytosanitary standards
- Maintain the extent of forests
- Making use of Traditional knowledge
- Identification and inventorization of Community forests
- Permanent nurseries for climate adaptive and threatened species
- Conservation and commercialisation of medicinal plants
- Preparedness to avert climate-induced forest dieback
- To establish new systems for awareness building through establishment of ENVIS Centre

Sustainable Water Resources

Profiling of water resource status and formulation of roadmap for climate-proofing

* Identifying and delineate priority watershed and river basin.
* Identification and delineation of springsheds and rejuvenation of dried springs.
* Formulating strategies for conservation of springshed recharge areas.
* Identifying suitable areas for alternate water conservation.

Maintaining and conserving surface and ground water resources

Development and expansions of hydro-geological network of early warning system and creation of State meteorological department

Monitoring the environmental flow for sustaining the health and the aquatic ecosystems

Enhancing Micro-hydel project

Promote Integrated Water Resources Management

Capacity building and participatory water resource management

* Encourage water management practices like water auditing, regulated exploration of groundwater.
* Conservation of water from various sources.
* Efficient water use by promoting drip irrigation, multiple use systems, compulsory rainwater harvesting tanks for new buildings.
* Roof top rain water harvesting technique may be encouraged to augment ground water resource potential wherein water table is deeper/ ground water development is higher.
* Improve sanitation infrastructure.
* Municipal solid and liquid (sewage) waste disposal management system should be developed to avoid the surface and ground water contamination.

River health monitoring and improving water quality management

Improvement of flood management system

Identification of landslide prone areas and adaptation measures

Restoration and creation of water bodies

Promotion of traditional systems of water conservation by implementation of programmes for repair, renovation and restoration of water storing bodies including rainwater harvesting.

Sustainable Mining

Identification and maintenance of green zones in mining clusters

Protecting and managing water bodies around mining areas

Capacity building and generating awareness among local community, mining personnel and government departments

Checking unscientific mining and introducing improved technology for excavation and better management for storage and transport

Strengthening environmental monitoring and introducing environmental safeguards

Air, water and soil quality monitoring system

Improved mining operations within the purview of the Environment Management Plan

Health

Strengthening public health care systems

* To develop and maintain public health infrastructure.
* Collaborate with the Corporate Sector to involve them in the Malaria control programme under 'Corporate Social Responsibility (CSR)' scheme.
* Promoting traditional health care system for adaptation and mitigation of health related climate change impacts.
* Advance warning of epidemic outbreaks.
* Enhancement of epidemiological surveillance actions, targeted to specific territories.
* Important adaptation actions are also those focused on specific disease and vector control programs, including entomological surveillance.
* Within the field of health systems, strategies to facilitate access to health care services would assist in early detection and treatment of infections and, thereby, potentially outbreaks.
* Set up rapid response mechanism .

Public education and awareness

* Inter Personal Communication (IPC), area & target specific Information Education and Communication (IEC)/ Behavioural Change Communication (BCC).
* Developing legal frameworks and institutions and enabling people to take well-informed decisions.
* Strengthening public education and awareness programmes.

Research and development *(Vulnerability, Capacity and Adaptation Assessment)*

* Identification of vulnerable groups, based on region, socio-economic status, availability of infrastructure and services, is important.
* Advanced monitoring and scientific surveillance for different climate induced diseases
* Developing early warning and control (EWAC) system for disease breakout.

Sustainable Energy

Maximizing harnessing of Renewable Energy

- Harnessing biomass potential
- Promoting grid based wind power generation
- Maximizing use of solar energy

Establishment of evacuation corridor and strengthening of transmission and distribution network

Demarcation of hydropower potential in the State with site specific capacity mapping

Reduction of Aggregate Technical & Commercial losses

Promoting the use of renewable energy resources for household energy requirement

Promoting energy efficiency practices in the State

Enhancing Micro-hydel project

Undertaking hydrological study of existing hydro power source and framing adaptation measures

Life cycle analysis of existing hydropower plant and implementation of repair and maintenance measures

Implementation of Pilot Energy Efficiency Project and Investment Grade Energy Audit (IGEA)