

The Climate Change Cell proposed under Haryana Mission on Strategic Knowledge aims to build a greater understanding of the climate change processes, its implications on various sectors, and vulnerabilities associated with the same to enable sustainable adaptation to climate change and mitigation of drivers of climate change (greenhouse gases emitted from anthropogenic sources). Haryana being an agriculture intensive state, the focus will be mainly on agriculture and water issues. However, other related climate change issues will also be addressed to facilitate the development of a climate proofed society.

With this in the background, the **Climate Change Cell aims** to

- Creating a database: In order to benefit from the experience of development agencies in monitoring and evaluating their activities, there is a need to organize a data source and convert into database
- Integrate conventional data sources with modern data sources to develop GIS database
- Constant monitoring of climate change signals/climate variability and creating meteorological database/forecasting for decision support system in all the districts and providing competitive incentives to the better performing districts
- Capacity building of farmers of effective adaption to climate change effect on Agriculture, Animal Husbandry etc.
- Constitution of Climate Change Cell in State shall consider aiming, at coordination among various departments
- Research and Development priorities identified by the State
- Providing training and capacity building among town planning professionals so that they can use latest technique for preparation of master plan
- Training the Officials of State Development Departments on the steps and approached to handle the climate change impacts on various sectors and to build scientifically the adaptations options to be considered by the policy makers and the society
- Establish Centers of Excellence in Colleges/Universities/Institutions
- Sensitize the importance of Climate Change and its inter-linkages with development options
- Importance of “Adaption” in policy making, planning and programming. The adaption programming is to improve the adaptive capacity and reduce the vulnerability of human populations and the natural and economic systems on which they depend, to climate change and its impacts, and therefore contribute to the realization of the Adaptation
- Learn about systematic steps aiming at defining concrete adaptation options at national, sector, local and project level, and accord support of necessary institutional capacities to facilitate carry out a change process
- Skill development in both formal and informal level
- Communicate scientifically based information on observed climate trends.
- Develop capacity for modeling the regional impact of climate change
- Promote research in the areas of climate change impacts on important sectors like agriculture, health, natural ecosystem, bio-diversity, etc
- Provide an improved understanding and awareness of the key climate processes and the resultant climate risks and associated consequences

- Strengthen indigenous capacity for the development of appropriate technologies for responding to climate change through adaptation and mitigation and promote their use by multiple stakeholders
- Create institutional capacities for effective implementation of pilot scale programs addressing sector specific scenarios of climate change
- Undertake collaborative programs with National, International and other renowned Research & technology Institutions
- Undertake exchange programs for Scientists/Technologists in advanced areas and participation in International/National fora on CC
- Formulation of target specific tailor made programs for capacity building of all stakeholders for timely and better adaptability to the changing set of situations
- Web enabled Knowledge portal for community awareness
- Set up CC galleries/corners in Educational institutions/ key departments
- Effective use of Electronic and Print Media for dissemination of information on CC
- Modelling and analysis of the data for climate change impacts on water resources
- Development of modern real time water quality monitoring system
- Pilot ecological study on air pollutants from industries, transport and domestic cooking, pollen and molds (as triggers of Asthma and Resp. Diseases) and how they are effected by CC
- Providing high resolution weather and climate data to study the regional pattern of diseases. Development of high resolution health impact model at the state level
- GIS mapping of access routes to health facilities
- Development of a disaster risk reduction plan
- Enhancing carbon sinks in sustainably managed forests and other ecosystems
- Adaptation of vulnerable species/ecosystems to the changing climate
- Effective use of Electronic and Print Media for dissemination of information on CC

Capacity building is considered as a critical segment for the success of mitigation and adaptation. The cell aims at enhancing the technical capacity of the concerned departments to handle the climate change impact assessment

and adaptation capability, monitoring, awareness creation and financial management. Therefore, it is required to establish a well-designed knowledge networks with a well-structured framework for harmonization, interoperability, sharing and exchange of data of relevance to climate change, responses and to mainstreaming climate change in development programmes of the state.
Establishing of an interactive Knowledge portal.

This five-year project has been sanctioned by Department of Science and Technology (SPLICE Climate change programme) via order no. DST/CCP/Haryana/92/2018(G) dated 23.03-2018.

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