

Project Concept Note

Project title: “Climate Resilient Industrial Areas: Planning for Adaptation to Climate Change”

Background

The Andhra Pradesh Industrial Infrastructure Corporation Ltd. (APIIC) is a state owned not-for-profit company in Andhra Pradesh that is vested with the responsibility of developing industrial parks and industrial infrastructure in Andhra Pradesh. APIIC today has over 320 industrial parks in Andhra Pradesh. Especially the small and medium enterprises (SME) make use of the created infrastructure in these industrial parks.

Many of these industrial parks were set up 2 to 3 decades back and lack orientation to environmental and climate considerations. For example, many of the industrial parks do not have adequate storm water drainage due to which in the case of excessive rainfalls, flooding is observed due to which some of the industries are often forced to close their operations. The impacts of climate change, particularly due to increasing temperature, excessive or reduced rainfalls, flooding etc. are becoming a concern for the industrial parks.

The industries, especially the SMEs have potential to be substantially affected by the climate change – with an overall negative impact on the sustainable development of the state of Andhra Pradesh. Up to now, these risks did not get any consideration or got only insufficient consideration. Hence, the industrial areas would be considerably vulnerable to climate change impacts. It is necessary to pay attention to a range of direct or indirect influencing factors which are incident to climate change. Affected are markets, procurement channels, supply chains as well as infrastructure and logistics. In industrial areas, events like heavy rain and floods can cause significant environmental and disaster risks. The storing of dangerous material and storage area of hazardous waste are endangered for example through the ingress of water. Sewage treatment plants and waste water treatment systems are most of the time inadequately set for extreme meteorological events and pose therefore a risk.

Aim of the project

- The vulnerability of industrial areas, especially of the SMEs located in these areas, towards climate change is minimized.
- The climate change impacts are understood by the responsible authorities and concepts, instruments and programmes/action plans are available to initiate corresponding measures for adaptation.
- Basic approaches for the climate change adaptation of the industry are implemented on pilot basis in selected industrial areas and have a positive effect on the climate resilience of SMEs.
- The management of industrial areas as well as the decision makers of SMEs are sensitized for up-scaling the successful models from the pilot measures.

Target group

- Officials of APIIC that are responsible for planning and management of existing/new industrial parks.

- Industrial Area Local Authorities (IALAs) that are responsible for the management of existing Industrial Parks.
- Management of the SMEs.

Requirements

- Development of application-oriented and systematic planning & management methods/tools/techniques/guidelines for retrofitting of existing industrial parks taking into consideration climate change adaptation aspects.
- Policy advice for the determination of appropriate locations of new industrial parks and their site master planning, incorporating climate change adaptation aspects.
- Demonstration of pilot measures in the case of new industrial parks as well in the case retrofitting of existing industrial parks incorporating climate change adaptation aspects.
- Strengthening the capacity of enterprises and industry park administration for effective and efficient climate-oriented management

The approach/activities may be related to:

- Awareness raising and training for authorities and enterprises
- Vulnerability and risk analysis
- Development of adaptation concepts, methods, tools, guidelines
- Development of plans and adaptation strategies for the pilot projects
- Implementation support
- Support in up-Scaling