Climate Exposure: Projections and Scenarios
Terms of Reference (ToR)

CapaCITIES Project:

The Swiss Agency for Development and Cooperation (SDC) has undertaken the Capacity Building Project on Low Carbon and Climate Resilience City Development in India (CapaCITIES). CapaCITIES is a multi-year cooperation project between Switzerland and four Indian cities aiming at strengthening the capacities of city authorities:

– to plan and implement measures for reducing greenhouse gas emissions, and
– to cope with the effects of a changing climate in an integrated manner

The project would be carried out in four Indian cities namely, Coimbatore, Rajkot, Siliguri and Udaipur. ICLEI - Local Governments for Sustainability, South Asia Secretariat which is based in New Delhi, India along with two other Swiss partners – South Pole Group and econcept have been selected to implement this project.

Purpose:

Indian cities are challenged by the growing demand for infrastructure due to rapid urbanization. The impact of climate change is exacerbating the existing situation. Climatic phenomena such as increased precipitation, heat stress, and extreme weather events are increasingly having an impact on people, infrastructure and systems within cities.

Therefore, the CapaCITIES project intends to develop a climate action plan for integrating climate concerns in city development. To initiate the process, it is important to build evidence of changing climate patterns, forecast future scenarios and assess the climate exposure in the four project cities.

Scope of Work:

The CapaCITIES project seeks expertise (individuals or organisations) to develop city level and local region level climate profiles for Coimbatore, Rajkot, Siliguri and Udaipur cities.

The consultant is expected to deliver the following outputs:

1. Trend analysis of past climatic events with regard to rainfall (city level and local region level), temperature – maximum, minimum, mean (including average daily, day high and night low) and humidity (last 40 years)
2. Based on historic data (last 40 years), forecasting for 2035 and 2050 of rainfall (city level and local region level), temperature – maximum, minimum, mean (including average daily, day high and night low) and humidity. Provision of all assumptions and model parameters in a report is expected.
3. Intensity, Duration and Frequency (IDF) curves for 2 years, 10 years and 100 years
4. Create a training module on the methodology used to execute the task, including the model used for forecasting, and provide training to CapaCITIES implementation agency staff.
**Duration of Work:** 04 months from award of work

**Instructions for Submission of Proposal:** A technical and financial proposal is to be submitted in soft copy by interested experts/organisations. The proposal should be emailed to: iclei-southasia@iclei.org and shruti.sadhukhan@iclei.org. Ms. Bedoshruti Sadhukhan may also be contacted at 011-41067220, for any further clarifications.