

**Resilient Urban Design By Integration Of Productive Urban Landscapes: A Case Of Wetland Ecosystem Calicut**

Present world cities are facing different issues related to climate change. Unplanned urbanization is causing other issues like unemployment, pollution, poverty, water scarcity etc. City spaces are being converted to concrete jungles where urban ecological layer is neglected every time. Wetlands, forest areas, rivers and canals are treated as waste lands which do not have any role in the development activities. Concept of productive urban landscapes is a relatively new thought which is developed in London. This concept explains the need to keep productive landscapes along with the urban layers to have ecological, economic and socio-cultural benefits.

Calicut city which is continuously facing problems of unplanned urbanisation such as floods, reclamation of wetlands, deterioration of canals and rivers etc. is taken as a case to study about the issues. Regional level study of the area between Korappuzha and Kallayi puzha along Canoly canal containing the wetland areas such as Perunthuruthi wetlands and Kottuly wetlands is done and the major issue nodes are identified. The most affected area due to urbanisation is found to be Kottuly wetlands and neighbouring precinct. Issues like unplanned developments along Canoly canal and wetland edges, land reclamation, spreading of industrial zones, flooding issues, unused potential open spaces, reduced agricultural and community activities are restricting those areas from sustainable growth. By applying the concept of productive urban landscapes, the unused potential areas such as Kottuly wetlands and Canoly canal can be made part of the development activities to enhance urban resilience and correct the growth direction of Kottuly. Productive urban landscapes can be integrated to improve urban resilience from the regional level itself. The design moves integrating productive urban landscape can be a good answer to many questions and issues of present world due to unplanned urbanisation and climate change.

***Key words:*** *Productive urban landscapes, Urban resilience, Wetland ecosystem*