

**THE CHALLENGES FOR GREEN SYSTEM BY URBAN DEVELOPMENT:
A STUDY BASED ON KALMUNAI MUNICIPAL COUNCIL**W.F.Naja¹, M.I.M.Kaleel²

Correspondence: najawfgeo@gmail.com

Abstract

This study is significant as it explores how far urban development activities pilot to destroy the green system in the research area. The main objectives of this research are to identify the challenges for green system by urban development in the Research area and to insist on the strategies to mitigate the challenges. The study campaigns qualitative methods by using primary and secondary data collections methods. The primary data was collected through questionnaires, interview and field observation. Questionnaires were to reflect 0.25% of total population and 30 respondents participated in the interview. Secondary data was collected through Google historical image and statistical data. Both data were analyzed by using Arc GIS 10.1 and MS Excel softwares. According to the data analysis of this research, it is found that the green system has been destroyed due to the recent urban development activities in the research area. Further this study reveals that the environmental impacts have also been increased as a result of removing green land cover. Through the research finding, land shortage, over population, high density of settlement, pressure of urbanization, political instability, insufficient operation of urban planning, Change of settlement pattern, and some of the natural, social, and environmental factors were identified as major challenges for green system in Kalmunai municipality. In addition this research recommends the following: green roof system, green belt system, green wall system, street greenery, blue green infrastructure, roof top gardens, and government organizations should formulate and implement policy on green protection with the community participation in order to create green environment and to contribute to the sustainable development of the city.

Key words: Urban development, Green system, over population, Environmental impacts

¹ Department of Geography, South Eastern University of Sri Lanka

² Department of Geography, South Eastern University of Sri Lanka