

Urban Water Logging Adversity: A Case Study on Disruption of Urban Landscape Due to Water Logging Problems and Probable Analytical Solutions for Urban Region on Port City Chittagong, Bangladesh

Authors : Md. Obidul Haque, Abbasi Khanm

Abstract : Port city Chittagong, the commercial capital of Bangladesh, is flourished with fascinating topography and climatic context along with basic resources for livelihood; both shape this city and become living archives of its ecologies. Chittagong has been witnessing numerous urban development measures being taken by city development authority, though some of those seem incomplete because of lack of proper planning. Due to this unplanned trail, the blessings of nature have become the reason of sufferings for city dwellers. One of which is the water clogging due to heavy rainfall, seepage, high tide, absence of well-knit underground drainage system, and so on. The problem has reached such an extent that the first monsoon rain is enough to shut down the entire city and causing immense sufferings to livestock, specially most vulnerable groups such as children and office going people. Study shows that total discharge is higher than present drainage capacity of the canals, thus, resulting in overflow, as major channels are clogged up by dumping waste or illegal encroachment, which are supposed to flush out rain water. This paper aims to address natural and manmade causes behind urban water clogging, adverse socio-environmental hazardous effects, possibilities for probable solutions on basis of local people's experience and rational urban planning and landscape architectural proposals such as facilitating well planned drainage system, along with waste management policies etc. which can be able to intervene in these movements to activate the mighty port city's unfulfilled potentials.

Keywords : drainage, high-tide, urban storm water logging (USWL), urban planning, water management

Conference Title : ICUPADSD 2018 : International Conference on Urban Planning and Architectural Design for Sustainable Development

Conference Location : Mumbai, India

Conference Dates : February 22-23, 2018