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### **[Abstract Title]**

Sustainable Urban Drainage System (SuDS) – it's applicability in alleviating flood risk in Mumbai (an Indian megacity)

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Indian cities, in recent times, have been grappling with pressing natural disasters such as urban flooding and the dichotomy of acute water shortage. 24x7 water supply is a distant dream for the authorities involved. With an ever increasing population, leading to greater water demands, storm water is increasingly being considered as an 'asset', a resource that needs to be harvested. Sustainable drainage system has emerged as a successful strategy in managing flood risk in locations like the Netherlands, some American, British and Australian cities. Clearly, the traditional approach to urban infrastructure management needs to be reviewed and re-imagined.

Mumbai, India's financial capital, being prone to chronic flooding is a colossal problem for the country's economy. The underlying causes namely; land reclamation, unplanned urbanization, climate change, encroachments on natural waterways and their subsequent effect on failing drainage infrastructure needs to be understood. The paper/research would look into the following aspects in the application of SuDS to Mumbai, namely: SuDS' feasibility for the local climate, the suitability of SuDS elements for retrofitting in Mumbai, and its financial efficacy for the local administration. Consequently, the research will endeavour to develop a methodology to implement this probable solution with the support of available tools.



**[Keywords]**

SuDS selection; retrofit; drainage; flood