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Sustainable Brownfield Regeneration Of Industrial Fabric In The Urban Fringe: A Case Of Kurichi, Coimbatore

This research investigates on the concept of brownfield regeneration as an approach in achieving the goal of providing more sustainable strategic development of industrial brownfields of Coimbatore which is one of the prominent industrial cities in India. The project deals with varying layers of sustainable urban regeneration as a tool and industrial brownfields as sites. Some case studies are also analysed which is followed by an analytical part of the literature studies that includes different case examples of practices in different countries around the world. The main intent of the research is to suggest a conceptual design framework that dealings with the process of industrial brownfield redevelopment in the Indian context, especially in an industrial city like Coimbatore.

This research report consists of five parts: starting from introductory section followed by literature part and case examples of urban brownfield regeneration around the world which gives a theoretical understanding/review that discusses different ideas of sustainable industrial brownfield regeneration. The research also investigates on impact of these brownfield areas on the living condition of the urban neighbourhood in the city fringes. Moreover, an investigation and a strong analytical understanding of the present condition of industrial brownfields in Coimbatore city is done and also find out the upcoming projects that are coming in such fields in and around the city. Finally, a design framework is suggested in which an unused industrial land or a brownfield could be strategically integrated into the surrounding neighbourhood by considering all the pillars of sustainability in design. The research finally ends with design strategies and recommendations for regenerating the non-functioning industrial areas/brownfields that can be a beneficial opportunity to promote the living condition of the area in a sustainable manner.

Keywords: *Urban brownfield regeneration, Sustainable Neighbourhood, Industrial development.*