

Strategy for Sustainable Redevelopment of City Core: A Case Study of Ajmer City

(Ph.D. awarded by the Department of Architecture and Planning Indian Institute of Technology Roorkee).

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The thesis highlights critical issues related to population density, dilapidated buildings, streets network, redevelopment approaches in urban context and attempts to give ways and means to preserve its wonderful past yet promising future with the help of Ajmer city core. Analysis of the sequence of redevelopment approaches applied to core areas or conglomerations have been also illustrated. It covers various studies on sustainable way of construction, demolition, prevention of soil contamination and air pollution. Redevelopment issues include social, economic, technological, environmental, legal and regulatory and organization and management have been presented in this thesis. The analysis presents the overall development, building conditions, streets pattern, and an understanding of functions of the city core. For understanding physical, socioeconomic, environmental conditions and level of infrastructure services at the grassroots survey research method has been adopted. Survey analysis are divided into six parts which give more information about Ajmer city core, which includes site inspections and Characteristics of the Residential Buildings, Survey of Residents, Interviews with Experts, Parking Characteristics, Pedestrian Movement and Commercial Street Survey. Qualitative aspects have also been covered through visual survey.

The survey findings were integrated to literature review for developing a framework for the Sustainable Redevelopment of City Core. The Factors governing the process and how those factors can be classified under sustainability, objectives have been explained. Developed framework for sustainable redevelopment of Ajmer City Core focus on the prospective issues and factors, applied to traditional redevelopment processes, which is the essential elements of the framework. Researcher also conducted a survey of experts to confirm the framework suitability and improvements. Validation of framework, changes have been made in the proposed framework and implemented further in the redevelopment process. The validation process in this research has potential to replicate well with the similar case studies. In the end through three approaches i.e. Complete Redevelopment, Partial Redevelopment and Minimum Redevelopment researcher has been

demonstrated the facts and shown how much population and traffic can be accommodated for various degrees of reconstruction and elaboration of the network. The redevelopment strategies that have been recommended can be easily implemented with the coordination of various authorities. The objectives and the actions taken for above mentioned strategies have been thoroughly discussed and implemented in Redevelopment Plan. The approaches discussed in this thesis has potential replicate in other Indian city and carry out similar studies in fast urbanizing Indian towns and cities which are having more density yet phasing out fast. Overall, this is a potential research that contributes to enhance the built habitat and this perspective. In essence, the study has given a direction not only for Ajmer city but also to the other similar cities, in which the urban sprawl had been speeded in an organic manner. Urban redevelopment needs to be grooved into the developed cities pace, keep delicacy in mind not to disturb the environment via sustainable features.

This research tried to establish a relationship between the explored and unexplored, quantitative and qualitative and logical and mystical and open up numerous avenues for further research where this study is a framework.

Ajmer

15 July, 2013

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Chief Editor SAJTH