

## DEVELOPMENT OF SUSTAINABLE HIGHWAY RATING SYSTEM FOR PAKISTAN

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### **Abstract**

In recent years, construction stakeholders have widely debated sustainability in the construction industry. The main aim of a sustainable highway is to make sure that it is technically sound, environmental friendly, socially acceptable, economically feasible and institutionally capable. In order to achieve this aim, rating systems have been developed for sustainable roads and highways in many countries so that sustainable practices can be integrated into their specific local contexts. Therefore, the goal of this research was to develop sustainable highway rating system for Pakistan. The methodology process consisted of a literature review to identify various sustainable criteria and subcriteria elements for highways, a questionair survey distributed to respondents and the analysis of data obtained as a result of the survey using factor analysis method. Results of the analysis show the level of importance of various sustainable criteria and subcriteria elements in planning, design, construction and operation and maintenance stages of highways.