

## عنوان مقاله:

DEVELOPMENT OF IRAQI SUSTAINABLE RATING SYSTEM (ISRS) FOR ROADWAY PROJECTS

## محل انتشار:

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## خلاصه مقاله:

Sustainable roadway life cycle requires a good balance between environment, economy, and social aspects. Green construction for roads should have a voluntary sustainable rating system for roadway life cycle including planning, design, execution, and maintenance stages and it should be applicable to all roadway projects as new, reconstructed and rehabilitated roadway. The rating system could be used to rank, score and compare different roads projects according to their overall performance toward being more sustainable than the traditional road project. The goal of this research is to develop a sustainable rating system for roadway projects in Iraq (ISRS) by taking into consideration the local environmental conditions, economy, and materials processing actions available. This paper investigates criteria and sub criteria weightings of the suggested roadway rating system depending on planning, design, execution, and maintenance activities through the project life cycle. The methodology processes includes data collection by using a closed questionnaire distributed to 40 roadway experts in order to verify the criteria and sub criteria credit weightings based on the relative importance of the roadway related impacts that each credit addresses. Statistical analysis of experts answers have been evaluated by using SPSS with factors analysis method to ensure the compatibility and the validity of credits selected in the rating system. Finally five classification levels have been selected of the Iraq (roadway based on credits earned by the road according to the application of the proposed evaluation system) (ISRS).

## کلمات کلیدی:

Rating system, green construction, sustainable roadway

## لینک ثابت مقاله در پایگاه سیویلیکا:

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