

عنوان مقاله:

The Reasons for Rework Occurrence in Construction Projects and Prioritizing Them by Using AHP Method

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خلاصه مقاله:

Identifying and prioritizing the effective factors on rework plays a great role in decreasing the costs and conflicts existing in construction projects. Moreover, rework reduction helps with sustainable development. Because less materials will be used, which covers the environmental aspect of sustainable development, and additional costs will be decreased. Identifying the effective factors on rework, classification, evaluation, and prioritizing them is a difficult job. Therefore, AHP method is used in the current study. Analytical Hierarchy Process is one of the most comprehensive designed systems for decision making with Multiple Criteria. One of the advantages of this technique is that it is related to personal experience for hierarchical planning of a problem in one way, and it is related to logic, perception, and analysis for decision making and final judgment in other way. Different available options are compared to each other based on the considered criteria, and the priority of selecting each of them is determined. In the present study, some collected and separated information regarding the parameters and causes of rework in construction projects is gathered based on ranking system questionnaires given to employers, consultants, and contractors in Iraq, and then, the information gathered from questionnaires is analyzed by using Multivariate Decision Making Process (AHP) in order to prioritize the factors of rework in projects.

کلمات کلیدی:

Risk, Analytical Hierarchy Process, Multivariate Decision Making, Construction

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