

#C815290 : MAJOR CONSTRUCTION MANAGEMENT
KEY WORD: PREQUALIFICATION / CONTRACTOR

VACHARA PEANSUPAP : THE SUITABILITY OF MODELS FOR CONTRACTOR

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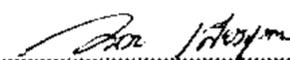
The objective of the research is to analyse the suitability of models to be used for contractor prequalification, the desired characteristics of which include the avoidance of the evaluators' bias and the ability to reflect the contractors' success potential. The steps in the research consist of : a) studying existing prequalification models, domestic and international, b) studying factors which were used for contractor prequalification c) surveying of data of factors that have correlation with construction values and contractors' classification, from building as well as civil contractors, consultants and owners d) analyse the models in four aspects : data representation, model sensitivity, convenience of application and selection accuracy, e) analyse models that were applied for contractor classification, building and civil, f) conclusive remark on the suitability of each models for contractor prequalification.

It was found that the models which meet basic requirements include Linear Model, Multiattribute Utility Model, Linear Regression Model and Fuzzy Set Model. Each model was analyzed in four aspects: data representation, model sensitivity, convenience of application and selection accuracy. It was found that Linear Model and Multiattribute Utility Model are suitable for contractor prequalification and contractor classification. The Fuzzy Set Model can be used for comparing the contractors with less weak points. The Linear Regression Model is not appropriate for contractor prequalification due to the coefficient of this function not being compatible with reality. The models which are appropriate for use need data that are correct and correspond with the characteristics of prequalification organization.

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