



AN IMPROVED INTEGRATED TENDER EVALUATION METHOD BASED ON ANALYTIC HIERARCHY PROCESS

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ABSTRACT—The integrated evaluation method is the most important tender evaluation method in material procurements. However, subjective consciousness of the evaluation experts and the weights of the technical conditions, business conditions and price conditions have excessive impact on the evaluation results, which make the process and result of tender evaluation undependable. In this paper an improved integrated evaluation method is presented based on the analytic hierarchy process (AHP). The technical conditions, business conditions and price conditions of integrated evaluation method are used as the criterion level of AHP; and the choice of suppliers is used as the scheme level of AHP by the proposed method. Through single-level sorting and then total- sorting among levels according to the judgment matrix, the winning bidder list is achieved. Analysis and actual case computing results show that the proposed method improves the dependability on the process and result of bid evaluation, which ensures the fairness of procurement activities and quality of the product purchased.

Key Words: tender evaluation, analytic hierarchy, dependability