Electronic Tender Evaluation

One of the most critical parts in procurement activity is tender evaluation. The assessment involves complicated processes in performing the selection based on the criteria referred to the request for tender, and an analysis of the strengths and weaknesses of the submitted tenders. The process needs a combination of methods to structure it in a more effective way. Statistical methods and multi criteria decision models are applied to fulfill the needs in tender evaluation and used by modelling its user preferences.

To enhance decision-making in tender evaluation, the present study has came up with an Electronic Tender Evaluation (eTE) by generating a process model and integrating into Fuzzy Analytical Hierarchy Process (AHP). It is a web based method developed to facilitate tender evaluation processes based on best tendering practices to save time and money.

Although electronic tendering is a common approach for tender advertising, document uploading and notification in general, there is currently no tender evaluation tool that is provided in any commercial electronic tender application.

• eTE model with integrated approach offers an opportunity by simplifying the complex process via automation and provides a recommendation to assist users in order to make suitable selections
• Mediator agent is proposed to act as a representative in distributing the information. This structure is to sustain the confidentiality of each transaction
• Each evaluator can freely provide his/her own set of judgement/opinion
• Provide a justification for the tenderers/candidates
• Introduce decision support software using pair-wise comparisons judgments to let evaluator focus on a small and well-defined task and a comparison of two elements in a given context. One important application of pair-wise comparisons is the widely used AHP, a structured technique for helping people deal with complex decisions. It uses pair-wise comparisons of tangible and intangible factors to construct ration scales that are useful in making important decisions. Decision makers perform the selection process based on comparative judgement, done on criteria or alternative selection

COMPETITIVE ADVANTAGES

Tendering for contracts is a key business development strategy in the growth and success of many of today’s businesses. With the exception of small, low value contracts, tendering is the procurement route now chosen by many private and public sector organisations seeking new supplier contracts. The present tender evaluation method is applicable to:

• Government sectors
• Private agencies
• Consultants
• Any other interest organisations

MARKET POTENTIAL

WHAT’S NEXT?

The inventors would like to speak to companies interested in licensing the system.

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SNAPSHOT

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