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A Review of Decision Support System For 'A-Class' Material Supplier Selection and Evaluation in Supply Chain With Respect to Automation in Construction Industry

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Abstract

In construction industry material plays an important role because, construction materials constitute about 50% to 60% of the cost of the project. These materials are broadly classified in different categories on the basis of its use and relative cost. A class materials are used generally 5-10% of the total items and accounts for 70-75% of the total money spent on it. It is important to give the more attention for the management and supply of these materials by implementing supply chain management in construction industry. Supply chain management is very strong concept in manufacturing industry has been widely investigated as effective and efficient management tool. It is necessary to implement management tool in construction industry because Indian construction industry is refer as part of unorganized sector. In construction supply chain good supplier play vital role who supply the construction assets within time, budget and quality. Therefore, the selection of the suppliers is important to ensure the successful completion of the project. At present construction industries selecting their supplier randomly by observing few criteria for the selection, while selecting the supplier selection and evaluation criteria should be well defined this process of selection is refer as multi criteria decision making problem and have to solve by decision making tool.

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Keywords

Supplier evaluation, Supplier selection, Supply chain management, Multi-criteria decision making, Analytical hierarchy process.

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