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Role of Value Engineering in Construction Materials

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Abstract : Aim of this project is to reduce the cost of the construction by adapting the modern materials in the Construction project. As the current materials are not proven to attain the profitability, Value Engineering (VE) can be used to find the alternative materials to reduce the cost, time and also to increase the functionality of the construction projects. An attempt has been made to reduce the cost of the construction material by introducing modern materials in effective way of replacements by using VE, which seeks the best functional balance between cost reliability and performance of the project. In this project, different construction materials are compared with the traditional materials in order to analyze their functionality and cost which can give good Efficiency, Ensures Quality, and Reliability to reduce the concentration, Factors Identification and Cost comparison with different materials along with its criteria. Finally, identification of possible cost reduction materials by using Ranking Method based on the questionnaire from the experts and implementing those suitable materials in Case Study of different construction work in Coimbatore region.

Index Terms : Value Engineering, Cost Reduction, Functionality, Modern Material, Ranking method.

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