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Development of procurement strategy and supplier selection for construction projects in Central Java-Indonesia

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Abstract

Material procurement, as well as user satisfaction, is the key factor of a successful construction project. Therefore, the contractors need strategies that support the effectiveness and efficiency of the procurement process in line with gaining the user satisfaction. This study aims to define material procurement strategies by implementing supply positioning model (SPM) and quality function deployment (QFD). There are 24 types of material to be measured using SPM matrix. The respondents are 86 construction companies which are also members of GAPENSI Central Java-Indonesia. The best procurement strategy for critical items is to have a strong partnership relationship and consider replacing suppliers when it is urgently needed. The most important supplier criteria to achieve best

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Foster A. Opoku-Mensah Theophilus Maloreh-Nyamekye Albert Ahenkan Berhanu Temesgen

Vol. 15, No. 6, pp 725–746 • September 30, 2022

<https://doi.org/10.1504/IJPM.2022.125852>

Abstract & Keywords



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Vol. 15, No. 6, pp 747–774 • April 27, 2022

<https://doi.org/10.1504/IJPM.2022.125843>

Abstract & Keywords



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Vol. 15, No. 6, pp 775–788 • April 27, 2022

<https://doi.org/10.1504/IJPM.2022.125848>

Abstract & Keywords



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Tony Ograh Joshua Ayarkwa Dickson Osei-Asibey

Vol. 15, No. 6, pp 789–810 • April 27, 2022

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Green supplier selection (GSS) has become crucial as organisations increasingly compete on environmental supply chain capabilities. However, challenges impeding integration of green into supplier selection has received little attention in literature. This ...

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Abstract & Keywords



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Keywords

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Hery Suliantoro Kirana Rukmayuninda Ririh Samuel Pandiangan

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Development of procurement strategy and supplier selection for construction projects in Central Java-Indonesia

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Keywords: construction projects; materials procurement; quality function deployment; QFD; strategic procurement; supply positioning models; SPMs; Indonesia.

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ABOUT

Abstract

Recent research has indicated African countries have begun resorting to sustainable procurement (SP) to fight environmental challenges facing the continent but fails to provide details of how it manifests. To fill this void, 24 people along the supply chain of the two biggest teaching hospitals in Ghana were interviewed to explore evidence of SP. A relational analysis confirmed evidence of SP practice. Twelve elements of sustainability practice were identified to include: training; life cycle analysis; environmentally friendly waste handling; stock control; sustainable tendering; sustainable storage and inventory management; organisational health and safety; supplier capability assessment; due diligence; inspecting products at delivery points; environmentally friendly buying; complying with laws; and specification of needs and evaluation of bids. The study, however, could not ascertain which of these elements is a significant sustainability practice and is, therefore, calling for studies to test the significance of these elements to aid strategic policymaking.

Keywords

elements, elements of sustainability, procurement, sustainability, sustainable procurement, Komfo Anokye Teaching Hospital, Kurle Bu Teaching Hospital, Ghana

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Abstract

Green supplier selection (GSS) has become crucial as organisations increasingly compete on environmental supply chain capabilities. However, challenges impeding integration of green into supplier selection has received little attention in literature. This paper examines the existing literature on green supplier selection with the view to identifying challenges to integration of environmental sustainability into supplier selection for procurement of goods. In total, 50 articles were reviewed, all published in peer-reviewed journals between 2009 and 2019. In all, 29 challenges to integration of environmental sustainability into supplier selection were identified in the review, and these were subsequently put into four main themes: *lack of knowledge and support*; *inadequate technology and infrastructure*; *organisational and operational strategy and policy*, and *financial limitations*. Based on the review of the literature, a framework was developed to establish the relationships among the themes and to show how the barriers were put into the four main themes. The findings from this review should provide a basis for measures to be put in place for successful integration of environmental sustainability into supplier selection in procurement decisions.

Keywords

challenges, integration, environmental, sustainability, supplier, selection

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