A Study of Factors Affecting the Use of Industrialized Building System (IBS) Construction in Sabah

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Abstract:

The Industrial Building System (IBS) has been implemented in Malaysia as early as the 1960s where it has many advantages including reducing construction costs, short construction time, being able to control construction quality and so on. Therefore, the objective of this study was to identify the factors that influence the use of IBS systems in construction in Sabah. The research instrument is using a questionnaire, where four items are considered, namely perception (P), knowledge (G), skills (K) and technology (N) towards the use of the IBS system. The analysis method is to use descriptive analysis to obtain the mean value. The item that obtained the highest mean was considered as a factor in the use of IBS. A total of 182 respondents were involved in this study consisting of government agencies, private sector, developers, contractors, educational institutions and also training providers. The findings of the study show that the respondents' perception of the IBS system is high, with a mean value between 4.16 and 4.29. In the context of knowledge, respondents also agree that individuals involved with the IBS system have knowledge and experience where the mean value is between 4.19 to 4.40. There are issues related to skills in the use of the system where the mean value is quite low which is between 3.48 to 4.01 where on average the respondents are still unsure or doubt the level of skills of the employees involved in the IBS system. Next, the technology aspect. The IBS system is considered less safe where the mean value is quite low which is 3.81, this factor is driven by the lighter structure of the IBS system compared to the conventional system. By identifying the response to the items as above, this study is very important for certain parties to formulate a strategy to give awareness and encouragement to the construction industry about the advantages of IBS, especially in construction projects in Sabah.

Keywords:

Industrialized, Building, System, Technology, Skills, Knowledge.