

USE RFID TO ESTABLISH SITE BUILDING MATERIAL MANAGEMENT SYSTEM

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Abstract

The demands of building materials are often schedule-orientated during execution of a construction project. In this study, RFID, ER Model, database and IT environment were used to develop the "Site Material Management System". This system integrates site material control which assisted construction companies to execute material management on construction site. The system gathered related information such as activities, materials, required schedule, quantity and material providers. When the inventory amount reach alert level, the system will automatically generate related message and informs the upstream company to purchase material according to the preliminary schedule. The system can help construction companies accurately control the purchase time, prevent work suspension due to material waiting, and reduce storage cost to assure the success of a project.

Keyword : RFID, material management