Paddy Yield Prediction Tool – A Proposal

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ABSTRACT

Baro is famous for its fragrant rice, which is considered to be among the best in the country. Due to its premium quality and location of origin, Baro rice has been enjoying higher prices compared to other rice varieties. The main economic activity in Baro is agriculture, where Baro rice is mainly grown by the villagers. This paper proposes a tool namely the Paddy Yield Prediction Tool where it is intended to assist villagers who are involved in growing Baro rice to predict how much paddy that can be harvested at the end of the season. Users requirements is obtained through interview with local farmers and it was found that more than 80% of the respondents do not mind having the tool as it can assist them in planning for the next season. This shows that the tool has to be inexpensive since the farmers can do without it. The main aim of this paper is thus to propose an affordable design of the prediction tool. To reduce the farmers effort in paddy monitoring and data gathering, low-cost wireless sensor networks are applied and integrated with this paddy prediction tool.

KEYWORDS: Paddy prediction tool, Baro rice, wireless sensor network