

RICE MONITORING SYSTEM USING REMOTE SENSING AND GIS

*A. Zuhairi, *S. Nazir, *A. Azlin, *M. Zubaidah, *C.M Norhayati

**Malaysian Remote Sensing Agency, No. 13 Jalan Tun Ismail
50480 Kuala Lumpur, MALAYSIA
Tel: +60326973400, Fax: +60326973350
E-mail: zuhairi@remotesensing.gov.my*

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ABSTRACT: Malaysian Remote Sensing Agency (ARSM) together with the Department of Agriculture Malaysia (DOA) and several paddy development authorities have been collaborated in the development of a rice monitoring system that utilizes remote sensing and GIS technologies. The development of the system started in April 2011 and fully completed in May 2012. The system is currently being operational in one of the main granary areas in the Peninsular Malaysia and will be expanded to other granary areas. The system comprises four (4) components i.e.; (i) image processing, (ii) database, (iii) web GIS and (iv) data reporting. This rice monitoring system utilises satellite images to monitor the growth status of paddy crops and mapping of actual planted areas. Furthermore, the system can also be used to estimate the rice yield production faster than conventional method for better planning and preparation of post-harvest logistics and national rice import.