

A STUDY ON STORAGE TEMPERATURE OF PADDY IN METAL SILOS

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ABSTRACT

The study was conducted to check the performance of bulk storage of paddy in metal silos in southern part of India. The study was undertaken at Indian Institute of Crop Processing Technology, Thanjavur, Tamil Nadu. Bulk storage of paddy (ADT-45) in flat bottom, GI Silo was investigated. The silo was equipped with a network of temperature sensors (27 numbers) that allowed for online measurement of temperature inside the silo at a time interval of one hour. No artificial ventilation was provided for the silo. The ambient temperature and relative humidity recorded in Thanjavur, were used to study the temperature variations inside the silo for a period of six months. The milling quality of paddy, germination and insect infestation were analyzed during the period of storage.

KEYWORDS: Paddy, Metal Silos, Storage Temperature, Sensor

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