

Design of a support system for caring for *Gynostemma pentaphyllum* medicinal plants.

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Abstract: In the context of the increasing demand for the medicinal herb *Gynostemma pentaphyllum*, finding effective management and care solutions has become urgent. This study aims to develop a system to optimize the care process for this medicinal plant through a combination of theoretical research and applied experimentation. Thereby, the study not only provides scientific knowledge about *Gynostemma pentaphyllum* but also contributes to improving the quality of products derived from natural medicinal resources. The expected outcome is a professional management system that enhances productivity and income for farmers cultivating medicinal plants.

Keywords: *Gynostemma pentaphyllum*, Care support system, Sustainable agriculture, Smart technology, Medicinal science