

# BIOPHARMACEUTICAL DEVELOPMENT AS PART OF THE DEVELOPMENT OF EDUCATION AND WOMEN'S EMPOWERMENT IN SENDANGSARI VILLAGE

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## ABSTRACT

Kalurahan Sendangsari which has a hilly topography with land contours, plains and mountains for the provision of agricultural crops, especially biopharmaceuticals. The government program of Kalurahan Sendangsari biopharmaceutical garden is oriented as an educational vehicle. Based on the results of interviews with the Village Head and observations, information was obtained that the moor land that is still 'sleeping' is quite large in Sendangsari district and the potential to be planted with Zingiberaceae and other types of Biopharmaceutical plants is very good. However, it experienced obstacles in terms of understanding and skills of planting, processing, and structuring. The Kalurahan government's program is in line with the implementation of sustainable development. The implementation of sustainable development is a common demand and commitment between countries in the world, including sustainable agricultural development (Rudy S. Rivai and Iwan S Anugrah, 2011). Especially considering that biopharmaceutical commodities will face increasingly fierce competition internationally, both tariffs and quality requirements, food safety, sanitary and phytosanitary. This PPM Biopharmaceutical Development with Processed Diversification activity aims to: (1) increase the understanding of members of the Farmer Women's Group (KWT) about the types and efficacy of herbs scientifically; (2) increase the creativity ability of KWT members on how to process various herbal products; (3) increase awareness of KWT members to be independent and maintain food security. The subject of this PPM activity is a member of KWT Sendangsari Village as a form of empowering village women, with a minimum target of 25 active participation participants. Methods used in solving problems of self-reliance and food security related to the use of biopharmaceuticals include: brainstorming, training, workshops, and practices. The stages include: preparatory stage, introduction stage, creative production stage, development stage, and evaluation stage. Data were obtained using questionnaires on understanding herbs and their sources of information, independence, food security, entrepreneurial spirit, and understanding of business plans related to biopharmaceuticals. The target achievement of this PPM activity is in the form of increasing understanding of KWT members about biopharmaceuticals, skills of KWT members in processing biopharmaceutical products along with diversification of processed in cooking or beverages in daily life and products worth selling, having entrepreneurial spirit and skills. For the output of product achievement targets in the form of published scientific articles, IPR guidebook *Pesona Biofarmaka*

Kata Kunci: *biopharmaceutical, education, empowerment*