

## **ABSTRACT**

### **EVALUATION OF LAND SUITABILITY FOR RAMBUTAN (*Nephelium lappaceum* L.) AND STARFRUIT (*Averrhoa carambola* L.) PLANT IN PATARUMAN DISTRICT OF BANJAR CITY**

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Land evaluation is the process of assessing land through surveys and studies of soil, vegetation, climate, and other aspects of land by comparing between the characteristics/quality of land with the condition of growing from the plants evaluated. Rambutan (*Nephelium lappaceum* L.) and starfruit (*Averrhoa carambola* L.) are commodities developed in Pataruman District of Banjar City. The purpose of this study is to find out the class of land suitability and efforts that can be made for improvement in order to increase the potential development of rambutan plants (*Nephelium lappaceum* L.) and starfruit (*Averrhoa carambola* L.) in Pataruman District of Banjar City. The research parameters tested came from primary data (temperature, oxygen availability, rooting media, nutrient retention, available nutrients, erosion hazard levels, and land preparation) and secondary data (administrative maps, rainfall maps, land use maps, soil type maps, and slope maps). The results showed that the actual land suitability class for rambutan and starfruit plants in Pataruman Subdistrict are all villages in Pataruman District have a level of land suitability suitable for the development of rambutan and starfruit plants, including Binangun Village, Sinartanjung Village, Pataruman Village, Hegarsari Village, Batulawang Village, Sukamukti Village, Karyamukti Village and Mulyasari Village. The actual land suitability class for rambutan and starfruit plants in Pataruman Subdistrict includes class S3 (according to marginal), with inhibitory factors in the form of rooting media (texture and drainage), nutrient retention (cation exchange capacity), land preparation (surface rocks) and erosion hazard levels (erosion and slope hazards).

**Keywords :** Rambutan, starfruit, land evaluation, Pataruman Subdistrict.