

ABSTRACT

Hamidah Gholibah M, 2020. Identification of Terrestrial Fern Types in Situ Patenggang Forest Reserve, Supervised by Prof. Dr. H. Toto S. Gani Utari, M.Pd. and Dr. Yusuf Ibrahim, M.Pd., M.P.

The research, entitled Identification of Terrestrial Fern Types in the Situ Patenggang Nature Reserve. The Situ Patenggang Forest Reserve area is a tropical rain forest, located at an altitude of 1600-1700 masl and has a slope angle between 150-400 so that there are hills that look rather steep with an average temperature of 170C to 310C per day. The purpose of this study was to determine the types of terrestrial ferns in Situ Patenggang Nature Reserve. This study used a *non-experimental qualitative descriptive* method. This research technique is by means of "*belt transect*" and sampling technique with *purposive sanpling*. The transect is stretched along 1200m with intervals for each plot of 200m and in each plot there is a quadrant with an area of 100m. The conclusions of this study were: 1) the types of terrestrial ferns were found in 27 species of terrestrial ferns in all plots representing 16 genera, 13 families, 7 orders, and 2 classes; 2) environmental factors which include measurements of air temperature, humidity, soil humidity, light intensity and pH. These five factors influence the diversity of terrestrial ferns; 3) The most common types of terrestrial ferns were *Selaginella intermedia* (BI).

Key word: Situ Patenggang, Identification, Terrestrial Ferns.