

Preliminary Study of Material Composition of Wreathed Hornbill (*Rhyticeros undulatus*) Nest Cover Entrance in Mount Ungaran

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Abstract : Wreathed Hornbill (*Rhyticeros undulatus*) was a protected bird that we can found in Mount Ungaran. It is known that the bird have been breeding and nesting on the mountain. The objective of the research was to analysis the materials composition of the Wreathed Hornbill nest wall plaster. The study was carried out in Curug Lawe and Gunung Gentong, Mount Ungaran Central Java. Nest wall plaster samples were collected from nest cavities were used by hornbill but after they left from the nest. The nest tree species on Gunung Gentong was *Syzygium antisepticum* and *Syzygium glabratum* on Curug Lawe. Materials analysis used proximate analysis and have been done on Chemistry Laboratory of Semarang State University. The result of proximate analysis showed that the material composition of nest wall plaster such as water, proteins, lipid, carbohydrate, and ash between Curug Lawe and Gunung Gentong was different. Except Carbohydrate, the highest componen showed in the nest wall plaster on Gunung Gentong.

Keywords : Mount Ungaran, nest cover entrance, *Rhyticeros undulatus*, proximate analysis

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