Study on the Morphological and Microscopical Characters of Three Selected Medicinal Plants

Tin Seinn Mar[1], Yin Kyay Khin[2], Phyo Wai Khaing[3] and Aye Yamin Khant[4]

Abstract

In this study, three medicinal plants were undertaken by the Department of Biology, Yangon University of Education on March 2020 to October 2021. Botanical studies were made on the morphology and taxonomy of both vegetative and reproductive parts. Many medicinal plants were found in the study area. Zingiberaceae are used for different medicinal purposes. Among them, *Curcuma* species are widely growing in University area. The rhizomes of the genus *Curcuma,* Family Zingiberaceae contains starch, pigment and aromatic oils. Its natural products are used as a remedy in traditional medicine and also as vegetables and spice in the arrangement of appetizing meals. The fresh specimens of the three selected plants; namely *Curcuma longa* L., *C. petiolata* Roxb., and *Kaempferia pandurata.* Roxb were collected from these areas. The morphology of these plants were studied to confirm the correct identification. The fresh specimens were examined under microscope for sensory and diagnostic characteristics with relevant photographs. The sensory and diagnostic characteristics of the rhizomes of the selected species have been examined. Therefore, the results of this research may be able to provide the morphological, sensory and diagnostic characters for identification of these plants.

Key words: *Curcuma longa* L., *C. petiolata* Roxb., and *Kaempferia pandurata.* Roxb

1. Professor/Head, Department of Biology, Yangon University of Education
2. Demonstrator, Department of Biology, Yangon University of Education
3. Demonstrator, Department of Biology, Yangon University of Education
4. Demonstrator, Department of Biology, Yangon University of Education