

# Paleontological Evidences of Thitsipin Formation in Ywangan Township, Shan State (South)

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## Abstract

The research area is situated in Ywa-ngan township, Shan State (South), including Yeu, Linwe, Kyaukngat, Thitsipin, and Nwabangyi villages. The research area is bounded by Latitude 21° 10' to 21° 15' North and Longitude 96° 25' to 96° 35' East. The research area is mainly occupied by a sequence of Paleozoic rock units; Molohein Group (Cambrian), Lokeyin Formation (Early Ordovician), Wunbye Formation (Middle Ordovician), Nanon Formation (Late Ordovician), Tanshauk Member (Late Ordovician), Linwe Formation (Early Silurian), Thitsipin Limestone Formation (Early Permian) and Nwabangyi Dolomite Formation (Permo-Triassic). The present study emphasizes mainly on paleontology of the Thitsipin Formation. The rocks of Thitsipin Formation are widely distributed in the eastern and western parts of the research area. Two sections were measured in detail; (I) Linwe section is (306) m thick and (II) Hsinsapya section is (497) m thick. Megascopically, it mainly consists of bioclastic limestone, crystalline limestone, micritic limestone, cherty limestone and dolomitic limestone. In the present work, Corals; (*Ipciphyllum subelegans*, *Lophophyllidium* sp., *Pavastehphyllum simplex*, *Pavastehphyllum spongifolium*, *Iranophyllum* sp., *Syringopora* sp.), Fusulinids; (*Pseudo fusulina* sp., *Eoverbeekina* sp., *Nankinella* sp., *Rugososchwagerina* sp? *Pseudoschwagerina* sp., *Kahlerina* sp.), Bryozoan; (*Fenestellina* sp. *Polypora* sp.) Brachiopoda; (*Aulostegia* sp., *Chonetinella* sp., *Costispirifer* sp., *Punctospirifer* sp., *Neospirifer* sp.) and Echinoderm (echinoid plates, crinoid plates and stems) are systematically identified. Conclusively, according to the above faunal assemblages, the exact time of the deposition of the Thitsipin Limestone in the research area may be regarded as the Early to Middle Permian (Asselian to Roadian). It was possibly deposited in subtidal, intertidal and supratidal environment with low to high energy condition.

**Key words:** Thitsipin Formation, Limestone, Permian, Assilian, Roadian