CHAPTER V

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The author has chosen this area under study is possibly Northern extreme of Pakkanadu carbonatite complex. The detailed studied on the structure by the author as revealed possible sub-parallel shear plains connected to the deep main shear plan as described by Grady (1971).

A detailed account on the petrology and mineralogy is presented by the author in order to threw more light on the “Tectono” startigraphy, on the study area.

Chapter I deals with the outline on the Geology in and around Samudram. Intensive fieldwork was carried out and it has felicitated to present a detailed geological map.

Chapter II deals on the geomorphology of the study area. It gives an account on the physiography, drainage, weather and climate, rainfall, temperature, weathering, soil type and vegetation.

Chapter III deals on the regional geology of the area around Samudram is presented by the author.

The author described the petrology and mineralogy of rock types occurring in the study area using the several field photographs.
Fig.1. Shears are identified in the Attukadu near Puthupalayam
Chapter IV: The author deals on the structural settings of the study area.

The author noticed the shears of minor intensity parallel to the deep main shear fault found in Pakkanadu from the nature of the intensity of retrogression as evidenced from the petrography study. Presence of several parallel to sub parallel shears is in fold while the intensity of retrogression is more towards the deep main fault located at Pakkanadu.