CHAPTER VI

SUMMARY AND CONCLUSION
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The author during his reconnaissance survey near Mallur noticed an excellent account on the charnockite-gneiss relationship. This area is located in the Moyar-Bhavani-Attur lineament mobile belt and exhibits retrogression of charnockite to gneisses. However no detailed geological report was available for the study area and therefore the author makes an attempt to give a detailed geological account of the area in and around Mallur.

The present study gives the significance and interrelationship of different lithounits to build up a tectono stratigraphic succession. Further the mineralogical and chemical changes involved in the process of retrogression of charnockite to gneiss is discussed with supportive field evidences and petrographic studies.

In Chapter I, the granulites of Tamil Nadu is discussed to introduce the geological setting of the study area.

In Chapter II, the physiography of the study area is divided into 3 divisions, namely eastern division, central division and western division. The drainage
patterns in the study area is presented by the author. The weather climate, Rainfall, weathering and soil types of the study area are presented.

In Chapter III a prelude to the charnockite-gneiss relationship as observed by several authors are presented. The author discusses on the charnockite-gneiss relationship of the study area.

The author presents the geology of the study area in Chapter IV. He presents the khondalite-charnockite supergroup and Satyamangalam supergroup as presented by Gopalakrishnan et al (1975). The chapter contains the details on the Petrology and mineralogy of the different rock types present in the study area. Among them, the basement gneisses, charnockite Garnet, pyroxenite, pyroxene granulite garnet, Retrogressed gneisses, Dolerite dykes, and younger intrusives are described in detail. A tectono-stratigraphy of the study area has also been erected by the author.

In Chapter V, the structure and tectonics of the study area is presented. The author has prepared the lineament map of the study area. The fold patterns, joints, foliation / bandings, shears and fractures are also presented. The author correlates the shear zones present in the study area with the retrogressive gneisses.