PREFACE

The prime objective of this orientation geochemical survey is to identify reliable guide for prospecting ore deposits in granitic terrain with the help of primary and secondary geochemical dispersion patterns. The Koheda area was choosen specifically because of the presence of suitable rock types for hosting copper and molybdenum mineralisation.

In the first chapter a brief introduction to the present study is given with the geology and mineralisation. The chapter gives the gecchemical investigations carried out by exploration geochemist, elsewhere in the world, for the identification of productive plutons. It concludes by identifying areas for further investigation.

The second chapter gives in depth the methodology of sample collection and analysis. This chapter consist of analytical data of rocks, soils and lake sediments.

Lithogeochemical survey carried out in Koheda area is exclusively discussed in chapter three. This chapter deals with the major and minor elemental configuration in granites from the study area. The lithogeochemical studies reveal the presence of productive plutons in the vicinity of Kurella, Maisampalli, Dharmasagarpalli and Reganda. The rock geochemistry indicates complex elemental zoning. This chapter

proposes reliable indicators for prospecting ore bearing granites.

In chapter four, the soil geochemical survey is discussed. Various pathfinder elements are identified and their relative merits are proposed.

The chapter five consist of lake sediment geochemical survey. Detail discussions are presented regarding the efficancy of lake sediment survey in locating areas of economic interest. Pathfinders are also indicated.

Conclusions are given at the end of each chapter and summarised in the sixth chapter. This chapter discusses the implication of the present investigation.

Tables and figures are given at appropriate places. A list of tables and figures in given after the contents. Bibliography is cited after the last chapter and a detailed contents is given at the beginning.