The work embodied in this thesis entitled "Chemistry of Lanthanoids" has been carried out since 1969 in the Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta-32, India.

This dissertation includes the studies on the lanthanide chelates of several 1,2-ketoenolides. Physico-chemical studies of the chelates in the solution phase have been carried out. The chelates have been isolated and characterised by several independent physical methods and chemical analyses.

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(RANAJIT DE)