

	<u>CONTENTS</u>	Page No.
<u>CHAPTER - I</u>	<u>INTRODUCTION</u>	.. 1 - 11
	General(1), Location(1), Geography(3), Physiography & drainage(3), Climate & rainfall(5), Vegetation(8), Fauna(9), Communication & transport(9) Scope of work(9).	
<u>CHAPTER- II</u>	<u>PREVIOUS WORK</u>	.. 12 - 25
<u>CHAPTER-III</u>	<u>GEOLOGICAL SETTING</u>	.. 26 - 68
	<u>Regional Geology of Saurashtra(26-41)</u> Mesozoic rocks(26), Deccan Trap(28), Lateritic rocks(29), Tertiary rocks(30), Quaternary rocks(32), Recent deposits (33), Tectonic Framework(34), Structural History(34), Neotectonism(39).	
	<u>Regional Geomorphology of Saurashtra(42-56)</u> General(42), The trapean highlands(43), The coastal plains(43), The shoreline(45), Drainage(48).	
	<u>Geological setting of the study area(57-68)</u> Basalt (60), Gabbro(60), Dolerite dyke(61), Chocolate brown clay & purple clay(61), Laterite-Bauxite(62), Gaj Series(63), Dwarka beds(65), Milliolitic limestone(65), Structures of the study area (66).	
<u>CHAPTER- IV</u>	<u>MODE OF OCCURRENCE</u>	.. 69 -134
	The horizons(72), Physiography of the bauxite bearing area(75), Description of the individual bauxite deposits(80), Salient field characters of bauxite occu- rrences in Jamnagar district(105), Basalt (109), Gabbro(109), Dolerite dyke(111), Chocolate brown clay and purple clay(112), Lithomarge-Laterite-Bauxite(116), Bauxitic clay(119), Gaj series and its Lowest Surface (122), Transported bauxite(122), Mixed clay(126), Mudstone, Calcareous clay and marl(126), Gypseous mudstone and marl (126), Concretionary limestone(127), Shell limestone(127), Dwarka beds(127), Milliolite limestone(128), Comparative study of the pre-Gaj and present day drainage system of the area(128)	

<u>CHAPTER- V</u>	<u>LABORATORY INVESTIGATIONS</u>	.. 135 - 281
	Major oxides and trace element analysis (135), Sample preparation(136),XRD analyses(139), Discussion on the mobilities of various major oxides and trace elements in the section based on Ti-retained mass balance models(269).	
<u>CHAPTER- VI</u>	<u>GENESIS OF LATERITE/BAUXITE</u>	.. 282 - 356
	Brief account of laterite/bauxite genesis (282), Genesis of the laterites/bauxites of Jamnagar(307), Climatic conditions(308), Geomorphology of the study area(319), Drainage(326), Parent rock(327), Nature and composition of basalt in Jamnagar(333), Chemistry of Weathering of Deccan Trap basalt(335). Genetic Model (341-356).	
<u>CHAPTER-VII</u>	<u>CONCLUSIONS</u>	.. 357 - 367
	<u>BIBLIOGRAPHY</u>	.. 368 - 383