

## CONTENTS

<u>DESCRIPTION</u>	<u>PAGE NO.</u>
<u>CHAPTER I : INTRODUCTION</u>	1-10
THE PURPOSE OF THE STUDY	1
GEOGRAPHICAL LIMITS	2
PHYSIOGRAPHY	2
CLIMATE	4
VEGETATION	5
FAUNA	7
POPULATION	8
COMMUNICATION AND TRNSPORTATION	8
SCOPE AND METHODS OF INVESTIGATION	8
<u>CHAPTER II : PREVIOUS WORK</u>	11-26
GENERAL	11
WEST COAST DECCAN TRAPS	13
SEISMIC STUDIES	16
WEST COAST BEACH ROCKS	17
GEOMORPHOLOGY AND ALLIED ASPECTS	20
PALAEONTOLOGICAL STUDIES	25
<u>CHAPTER III : GEOLOGY AND REGIONAL TECTONICS</u>	27-45
GEOLOGY	27
GENERAL	27
DECCAN TRAP	30

RESIDUAL SOIL AND ALLUVIUM	37
BEACHROCKS	38
SHORE ZONE SEDIMENTS	39
MUD FLATS	39
REGIONAL TECTONIC FRAMEWORK	40
<u>CHAPTER IV : GEOMORPHOLOGY</u>	46-75
INTRODUCTION	46
GEOMORPHIC FEATURES	47
SHORE LINE LANDFORMS	49
INLAND LANDFORMS	62
TRAPPEAN LANDFORMS	70
LANDFORMS EVOLUTION	72
<u>CHAPTER V : SEDIMENTOLOGICAL STUDIES</u>	76-104
INTRODUCTION	76
SAMPLING	76
METHODS OF INVESTIGATION	77
MAGASCOPIIC AND LITHOLOGICAL STUDIES	77
GRAIN SIZE	77
Graphic Mean	79
Inclusive Graphic Standard Deviation	79
Inclusive Graphic Skewness	79
Univariate analysis	87
Bivariate analysis	93
C.M. Pattern	94
Log Probability curve analysis	97

<u>CHAPTER VI : BEACHROCKS STUDIES</u>	105-143
SCOPE OF STUDIES	105
FIELD OCCURRENCE	106
PETROGRAPHIC STUDIES	113
Allochem	113
Detrital particles	116
Cement	118
Diagenetic Alteration	125
Dissolution and Replacement	126
DIAGENETIC FACIES	129
BEACHROCKS NOMENCLATURE	130
DEPOSITIONAL ENVIRONMENTS	132
<u>CHAPTER VII : HYDRODYNAMICS AND BEDFORMS STUDIES</u>	144-201
INTRODUCTION	144
COASTAL PROCESSES	145
BEDFORMS STUDIES	157
RIPPLE MARKS ANALYSIS	168
PATTERN OF SEDIMENT TRANSPORT	188
<u>CHAPTER VIII : CONTROLS OF COASTLINE EVOLUTION</u>	202-211
INTRODUCTION	202
STRUCTURAL CONTROL	203
SEDIMENTOLOGICAL CONTROL	204
EUSTATIC CONTROL	206
EVENTS OF COASTLINE EVOLUTION	209
<u>CHAPTER IX : RESUME</u>	212-222
REFERENCES	223-241