

LIST OF TABLES

TABLE NO.	DESCRIPTION	PAGE NO.
1.	Stratigraphic succession of Saurashtra peninsula	24
2	Stratigraphic succession exposed in and around Gogha	27
3	General geology of the study area	33
4	Thickness of various horizons in different sections	49
5	Thickness of various horizons in sections with sedimentary strata	50
6	Analytical data of Morchand section	89
7	The increase/decrease in % of the element concentration within the profile at Morchand compared to average composition of parent rock	90
8a	XRD data of laterite horizon at Morchand	97
8b	XRD data of lithomarge horizon at Morchand	98
8c	XRD data of lithomarge/bentonite contact at Morchand	99
8d	XRD data of bentonite horizon at Morchand	100
9	Analytical data of Thalsar section	101
10	Increase/decrease in % of the element concentration within the profile at Thalsar compared to the average composition of the parent rock	102
11	Analytical data of Alang section	108
12	Increase/decrease of the element concentration within the profile at Alang compared to the average composition of the parent rock	109

13	Analytical data of Devaliya section	115
14	Increase/decrease of the element concentration within the profile at Devaliya compared to the average composition of the parent rock	116
15a	XRD data of laterite horizon at Devaliya	123
15b	XRD data of lithomurge horizon at Devaliya	124
15c	XRD data of bentonite horizon at Devaliya	125
15d	XRD data of bentonite horizon at Devaliya	126
16	Analytical data of Badi section	127
17	Increase/decrease of the element concentration within the profile at Badi compared to the composition of the exposed parent rock	128
18a	XRD data of weathered basalt at Badi	135
18b	XRD data of bentonite/lithomurge contact at Badi	136
18c	XRD data of bentonite horizon at Badi	137
19	Analytical data of Padwa section	138
20	Increase/decrease of the element concentration within the profile at Padwa compared to the composition of the exposed parent rock	139
21a	XRD data of lithomurge horizon at Padwa	146
21b	XRD data of bentonite horizon at Padwa	147
21c	XRD data of weathered basalt at Padwa	148
22	Analytical data of Tagadi section	149
23	Analytical data of Thoradi section	155
24	Result for Swelling index	165 & 166
25	Result for Gel formation value	166 & 167