## LIST OF TABLES

	Pag	e No
Table 2.1	Simplified stratigraphy of Andaman Island	28
Table 4.1	Descriptions of samples form lava flows and ash beds of the Barren Island volcano	83
Table 4.2	Description of samples collected from the Ophiolite Group, Andaman Islands	85
Table 4.3a	Description of mud breccia samples collected from mud volcanoes of Andaman Islands	87
Table 4.3b	Description of mud breccia samples collected from mud volcanoes of Andaman Islands	88
Table 4.4	Description of water samples from mud volcanoes and other water bodies, Andaman Islands	89
Table 4.5	Description of Rock standards used during the generation of major element data	94
Table 4.6	Measured and reported values of major oxide concentration in USGS rock standard BHVO -2 and BCR-2	ns 95
Table 4.7	Sample dissolution procedure for trace elements analysis	98
Table 4.8	Measured and reported concentrations for various trace elements in BHVO-2 measured on ICP-MS	100
Table 4.9	Measured and reported concentrations for various trace elements in BCR-1 and BHVO-2 measured on INAA	102
<b>Table 4.10</b>	Sample dissolution procedures for isotopic analyses	103
Table 4.11	Protocol for Sr and REE separation from sample solution	104
Table 4.12	Protocol for Nd separation from REE Cut	105

Table 5.1a	Major oxide composition of mud breccias samples collected from mud volcanoes of Andamans	121
Table 5.1b	Major oxide composition of rock clasts samples collected from mud volcanoes of Andamans	122
Table 5.2	Trace elements abundances of rock clasts samples collected from mud volcanoes of Andamans	122
Table 5.3a	Sr and Nd isotopic ratios of mud breccis, mud-water collected from mud volcanoes of Andamans	123
Table 5.3b	Sr and Nd isotopic ratios of rock clasts collected from mud volcanoes of Andamans	123
Table 5.4	Carbon and Nitrogen abundance of mud breccias collected from mud volcanoes of Andamans	124
Table 5.5	O and H isotopic ratios of water samples from mud volcanoes and other water bodies, Andamans	125
Table 5.6	Major oxide compositions of rocks collected from the Ophiolite Group, Andaman Islands	127
Table 5.7	Trace elements abundances of samples collected from the Ophiolite Group, Andaman Islands	128
Table 5.8	Sr and Nd isotopic ratios of samples collected from the Ophiolites Group, Andaman Islands	129
Table 5.9	Major oxide composition of samples from lava flows and ash beds of the Barren Island Volcano	131
Table 5.10a	Trace elements abundances of samples from lava flows and ash beds of the Barren Island volcano	133
Table 5.10b	Trace elements abundances of samples from lava flows and ash beds of the Barren Island volcano	135
Table 5.11	Sr, Nd and Pb isotopic ratios of lavas and ash beds from Barren Island volcano	138