

## LIST OF TABLES

TABLE NO.	TITLE OF THE TABLE	PAGE NO.
2.1	Generalized stratigraphic column of Deccan Synclines	49
4.1	Column oven program for GC	96
4.2	Concentration levels of standard gas mixtures used to calibrate the GC	97
4.3	Empirically determined composition of soil gas hydrocarbons. (After Jones & Drozd, 1983)	101
4.4	Location details of the samples collected in Nandurbar Test site	104
4.5	Concentrations of light gaseous hydrocarbons of soil samples collected from Nandurbar Test site, Deccan Syncline (Phase I) (in ppb)	105
4.6	Location details of the samples collected in Titana Sub-test site	113
4.7	Concentrations of light gaseous hydrocarbons of soil samples collected from Titana Sub test site, Deccan Syncline (Phase II) (in ppb)	116
4.8	Hydrocarbon Ratios proposed by Bernard (1976) from the samples collected from (a) Nandurbar and (b) Titana Test sites	122
4.9	Hydrocarbon Ratios proposed by Jones and Drozd (1983) from the samples Collected from (a) Nandurbar and (b) Titana Test sites	123
4.10	Wetness ratios in Nandurbar Test site	124
4.11	Wetness ratios in Titana Sub Test site	125
4.12	Summary of $\delta^{13}C$ concentrations in the light gaseous hydrocarbons desorbed the soil samples collected from the study area	128
4.13	Light gaseous concentrations in selected samples for Trace Element studies	130
4.14	Trace Element concentration in samples in ppm	131
4.15	Light gaseous concentrations in selected samples for XRD studies	133
5.1	Geochemical Data a. Anomolous samples (Concentrations in ppb) b. Non-anomolous samples (Concentrations in ppb)	148