List of Tables

Table No.	Name of the Table	Page No.
1.1	Important differences between cyanobacteria and micro green algae	5
2.1	Important literature covering the relevant topics of the current cyanobacteria study	13
2.2	Important studies have helped accomplish the bryophyte aspect of the current study	21
2.3	Essential studies on different topics to achieve the objectives of the current lichen study	26
3.1	List of different monuments of Champaner Pavagadh complex	34
4.1	Selected study sites	44
4.2	Details of the sites visit	46
4.3	Meta data collection	49
4.4	BG – 11 media composition	50
4.5	Trace metal mixture solution	51
4.6	Range and Levels of variables	53
4.7	16S rRNA primers used for amplification	55
4.8	Composition of PCR reaction mixture	55
4.9	The chemical treatment protocol for in vivo study	67
5.1	Experimental design with experimental yield (at 10 th day)	72
5.2	ANOVA for response surface quadratic model	73
5.3	Coefficient estimation of model	74
5.4	Biofoulants with their GenBank Accession No.	75
5.5	Diversity and distribution of cyanobacteria and micro green algae on selected monuments	76
5.6	Diversity and distribution of Bryophytes on selected monuments	81
5.7	Field book numbers and accession numbers of lichen samples	87
5.8	Diversity and distribution of Lichens on selected monuments	88
5.9	Qualitative assessment of the minerals on the different monument sites of Champaner Pavagadh complex	95

5.10	Biofoulants observed on specific substratum	97
5.11	Rf values of monosaccharides peak at 366 nm wavelength	102
5.12	Area covered by peaks at 366 nm of each monosaccharide in all samples	103
5.13	Demonstrated different treatments for <i>in vivo</i> experiment on the Dome surface	109