

LIST OF FIGURES

Figure No.	Title	Page No.
2.1	Model of mutation process at microsatellite loci.	19
4.1	Map representing native breeding tract of Jamunapari, Malabari, Osmanabadi and Sangamneri goat breeds.	87
4.2	Electrophoresis (0.6% agarose) of diluted genomic DNA (Concentration 25ng-50ng/ μ l) extracted from blood samples of different goat breeds.	88
4.3	One of the typical silver stained 6% PAGE gel picture	89
4.4	L-shaped mode-shift graph showing lack of bottleneck in the Jamunapari goat population	97
4.5	L-shaped mode-shift graph showing lack of bottleneck in the Malabari goat population	102
4.6	L-shaped mode-shift graph showing lack of bottleneck in the Osmanabadi goat population	107
4.7	L-shaped mode-shift graph showing lack of bottleneck in the Sangamneri goat population	112
4.8	Phylogenetic tree constructed using pairwise chord distance measures following NJ procedure	120
4.9	Multi dimensional scaling plot of pair-wise Nei's genetic distance values between different breeds	121
4.10	Scree plot showing cumulative contribution of extracted eigen values towards total variance	123
4.11	3D -- Scatter plot showing the geometric relationship between individuals of different breeds	124