

LIST OF FIGURES:

1.1	Location Map	3
1.2	Communication Map	6
2.1	Regional Geo-environmental Map	15
2.2	Seismicity Map of Gujarat	24
3.1	Indian Craton.	32
3.2	Regional Structural Trends.	33
3.3	Tectonic Blocks of the Study Area.	35
3.4	Vertical Cross-section along Kalol-Navagam (N-S).	38
3.5	Regional Geological Set Up.	42
3.6	Lithology Showing Geological Succession at Saladi ONGC Well Site, Kalol.	44
3.7	Geological Map of the Study Area.	50
3.8	Lithostratigraphic Successions along Sabarmati River.	58
3.9	Geological Cross-section along Bareja to Patankuva (SSW-NNE).	60
3.10	A Longitudinal Profile along Sabarmati River from Pedhamali to Vadgam (N-S).	67
4.1	Isohyte Map of Gujarat.	73
4.2	45 Years' Rainfall Curve (1950-1995).	75
4.3	Normal and Cumulative Departure Curve.	76
5.1	Regional Geomorphic Map.	91
5.2	Palaeochannel Map.	97
5.3	Geomorphic Map of the Study Area.	100
5.4	Morphostratigraphic Map.	108
6.1	Sabarmati River Basin.	111
6.2	Khari Cut Canal Command Area Map.	116
6.3	Fatehwadi Canal Command Area Map.	118
6.4	Key Map Showing Geological Cross Section Lines.	126
6.5	Geological Cross Section Across Bareja to Rajpur.	127
6.6	Geological Cross Section Across Sarkhej to Unava in N-S direction.	128

6.7	Geological Cross Section Across Sanand to Kujad in W-E direction.	129
6.8	Geological Cross Section Across Ognaj to Sonarada in W-E direction.	131
6.9	Geological Cross Section Across Zundal to Rajpur in SW-NE direction.	132
6.10	Static Water Level Contour Map.	139
6.11	Reduced Water Level Contour Map.	141
6.12	ISO-TDS Contour Map.	147
6.13	ISO-Cl Contour Map of Ahmedabad City (1994).	149
6.14	Hydrogeomorphological Map.	153
7.1	Soil Series Map.	163
7.2	Soil Depth Map.	165
7.3	Soil Texture Map.	166
7.4	Soil Erosion Map.	169
7.5	Urban Land Use Suitability Map.	176
9.1	Urban Sprawl Map of Ahmedabad City.	187
9.2	Water Bodies Map.	192
9.3	Land Use Pattern of the Study Area.	193