# Table of Contents

<table>
<thead>
<tr>
<th>List of Tables</th>
<th>i</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of Figures</td>
<td>ii</td>
</tr>
<tr>
<td>Abbreviations</td>
<td>iii-v</td>
</tr>
</tbody>
</table>

## Chapter – 1: Introduction 1-45

1.1 Background  
1.2 Water: a common property resource  
1.3 Discourse on access to water  
   1.3.1 Inequality and Conflict in the management and access of water resources  
   1.3.2 Conflict due to survival needs vis-à-vis the market  
1.4 Water: from a common property to a private commodity  
1.5 Water in the international political-economic discourse  
1.6 Debates on right to water  
   1.6.1 Water: right versus need  
1.7 Water and the United Nations millennium development goals (MDGs)  
1.8 The Indian context  
1.9 Access to drinking water in urban areas: country level projections  
1.10 The Politics of access to water in India  
   1.10.1 Lack of access to democratic institutions leads to lack of access to natural resources  
   1.10.2 Lack of access and inequality in access; a result of crisis in governance  
1.11 Crisis of governability and failure of State  
1.12 Approach towards water in the post-reform period  
1.13 Review of Literature  
   1.13.1 Culture, civilisations and water  
   1.13.2 Water as a promoter of socio-economic development  
   1.13.3 Growing demand for water  
   1.13.4 Water as a fundamental right  
   1.13.5 Water and shift in development model: Implications  
   1.13.6 Water and market: the emerging scenario  
   1.13.7 Water and community participation  
   1.13.8 Access to water: inadequacies in governance approach  
   1.13.9 Water governance: the contemporary approach  
1.14 Policy options and implementation  
1.15 Objectives of the Study  
1.16 Main arguments  
1.17 Method  
1.18 Organization of the thesis  
1.19 Limitations of the study

## Chapter – 2: Urbanisation and Challenges of Water Provisioning 46-80

2.1 Contextualising the urban  
2.2 The definition of urban areas  
2.3 Demographic pattern in the urban Areas  
   2.3.1 Slum population
2.4 Classification of urban areas
2.5 Role of urbanisation in socio-economic development
2.6 Urbanisation and infrastructure
2.7 Urbanisation and access to drinking water in India
   2.7.1 The Post independence period
2.8 Urbanisation, five year plans and provision of drinking water
2.9 Sources of drinking water in urban areas
2.10 Access to drinking water in urban areas - current scenario
   2.10.1 Access to drinking water across the states/UTs
   2.10.2 Access to water in large cities vs. smaller cities/towns
2.11 Benchmarking of drinking water delivery in Indian cities
2.12 International benchmarks in access: position of India
2.13 Crisis in water supply in the urban areas
2.14 Vicious circle of urban water supply
2.15 Issues in urban water supply

Chapter – 3: Indian State and Provisioning for Drinking Water

3.1 Background
3.2 State provisioning of drinking water in urban areas
3.3 Water: the constitutional framework
3.4 Water: the legal provision
   3.4.1 Judicial intervention
3.5 Water: administrative provision
3.6 Drinking water and national water policy
3.7 Drinking water and state water policies
3.8 Provision of drinking water: agencies and institutions
   3.8.1 Supply of drinking water through the market
   3.8.2 Supply of drinking water through the CSOs / VOs
3.9 Drinking water and the five-year plans
3.10 Water supply programmes: 1954 till date
   3.10.1 Urban water supply programme (UWSP)
   3.10.2 Integrated development of small and medium towns (IDSMT)
   3.10.3 Accelerated urban water supply programme (AUWSP)
   3.10.4 Jawaharlal Nehru national urban renewal mission (JNNURM)
   3.10.5 Urban infrastructure development scheme for small and medium towns (UIDSSMT)
   3.10.6 Mega city
   3.10.7 Urban reform incentive fund (URIF)
   3.10.8 National urban infrastructure fund (NUIF)
3.11 The constitution 74th amendment act
3.12 Impact on access to water
   3.12.1 High connection costs
   3.12.2 Land tenure
   3.12.3 Subsidised water for the poor
   3.12.4 Private provisioning of drinking water
   3.12.5 Low quality water / pollution
   3.12.6 Water loss or unaccounted for water (UFW)

Chapter – 4: Provisioning for Drinking Water- Involvement of Private Sector and Civil Society Organisations: Some Cases

4.1 The neo-liberal context
4.2 The privatisation debate
4.3 Private sector participation
   4.3.1 Forms of PPP in urban water sector
4.4 Some PPP cases in India in water sector
   4.4.1 Tirupur, Tamil Nadu
   4.4.2 Bangalore operation and management
   4.4.3 Leak reduction in Bangalore
   4.4.4 The Sonia-Vihar water treatment plant in Delhi
4.5 Water markets
4.6 MNCs and packaged water
4.7 Creating scarcity
   4.7.1 The Sheonath river in Chhattisgarh
   4.7.2 The Coca Cola plant in Plachimada, Kerala
4.8 Civil society organisations and water provisioning
   4.8.1 Civic protests in Plachimada, Kerala and Sheonath, Chhattisgarh
   4.8.2 Forum for a better Hyderabad
   4.8.3 The initiative of Satya Sai Trust in Anantapur, Andhra Pradesh
4.9 Strengthening civil society and donors’ influence

Chapter – 5: Provisioning for Drinking Water in Hyderabad  143-72

5.1 Hyderabad: A Profile
5.2 Hyderabad Urban Development Authority (HUDA)
5.3 Demographic trends in Hyderabad
5.4 Drinking water in Hyderabad: access and quality
5.5 History of water supply in Hyderabad
   5.5.1 Water supply to Hyderabad after independence
5.6 Provisioning of drinking water in the slums and other poorer areas
5.7 Institutional arrangements
5.8 The Water Board of 1982
5.9 Hyderabad Metropolitan Water Supply and Sewerage Board (HMWS&SB)
   5.9.1 Constitution and composition of the HMWS&SB
   5.9.2 Service area
5.10 Sources of water supply
   5.10.1 Existing transmission, distribution and storage capacities
5.11 Service coverage
5.12 Service indicators
5.13 Water tariffs
5.14 Connection charges
5.15 Water demand and deficit
5.16 New initiatives by the HMWS&SB for better service
   5.16.1 Metro Customer Care (MCC)
   5.16.2 Single Window Cell (SWC)
   5.16.3 Citizens’ charter
   5.16.4 Lok adalat
5.17 Efforts towards private participation
5.18 Role of different stake holders and access to drinking water
5.19 Role of market agencies in access to water
5.20 Role of CSOs / VOs in access to water

Chapter – 6: Provisioning of Drinking Water: A Case Study  173-202

6.1 Sample
6.2 The interview schedule
6.3 The area of the study
6.4 The survey findings
6.5 Independent households
   6.5.1 User composition and socio-economic profile
   6.5.2 Water supply
   6.5.3 Water charges
   6.5.4 Grievances of water users
6.6 Slums with piped water connection
   6.6.1 User composition and socio-economic profile
   6.6.2 Water supply
   6.6.3 Water charges
   6.6.4 Grievances of water users
6.7 Description of the slum without house service water connection
   6.7.1 Sources of water
   6.7.2 Socio-economic profile of the respondents
   6.7.3 Water provisioning in the huts
6.8 Focussed group discussion (FGDs)
6.9 Inferences
   6.9.1 Inequitable access to water
   6.9.2 High tariffs
   6.9.3 Indifference attitude of officials
   6.9.4 Insecurity of supply
   6.9.5 Taxing the poor
   6.9.6 Right to vote and access to water
   6.9.7 Emerging trend in community participation
   6.9.8 The cost recovery approach

Chapter – 7: Summary and Conclusion

7.1 Summary
7.2 Objectives
7.3 Method
7.4 Findings
   7.4.1 Individual water connection
   7.4.2 Duration of water supply
   7.4.3 Quantity of supply
   7.4.4 Quality of water
   7.4.5 Pricing and user perception
   7.4.6 Grievance redressal
   7.4.7 Coping with water insecurity
   7.4.8 Economic capacity and access
   7.4.9 Right to vote and access
7.5 Towards commercialisation: trends and issues
7.6 Water as a basic right
7.7 Institutional arrangements

Annexure – 1: Interview Schedule

Annexure – 2: Copy of News Paper Clippings Detailing Problems Relating to Drinking Water in the Study Area

Bibliography