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Lack of proper sanitation and drainage in urban and rural areas has resulted in dumping of sewage and garbage into the rivers. In most cases, the drainage system, which was designed for storm water only, is being used as a sewer; and the sewage directly flows into the river without any treatment.

Water in the Kathmandu valley is derived from two sources: surface water (rivers and ponds) and groundwater. They are basically fed with rainfall. Rivers are important running surface water in terms of water volume and potential development. Over time, requirements for water for drinking and personal hygiene, agriculture, religious activities, industrial production, and recreational activities, such as swimming and fishing, have increased in the valley. The Kathmandu valley hosts more than 72% of the country's water-polluting industries.

Most of the buildings in Kathmandu valley are vulnerable to even moderate earthquakes, and loss of life in earthquakes can often be attributed to inadequate buildings. More than 4,000 buildings are constructed every year by builders or owners, most without any knowledge of engineering (UNDP, 2007)

#### 4.2 Research Framework

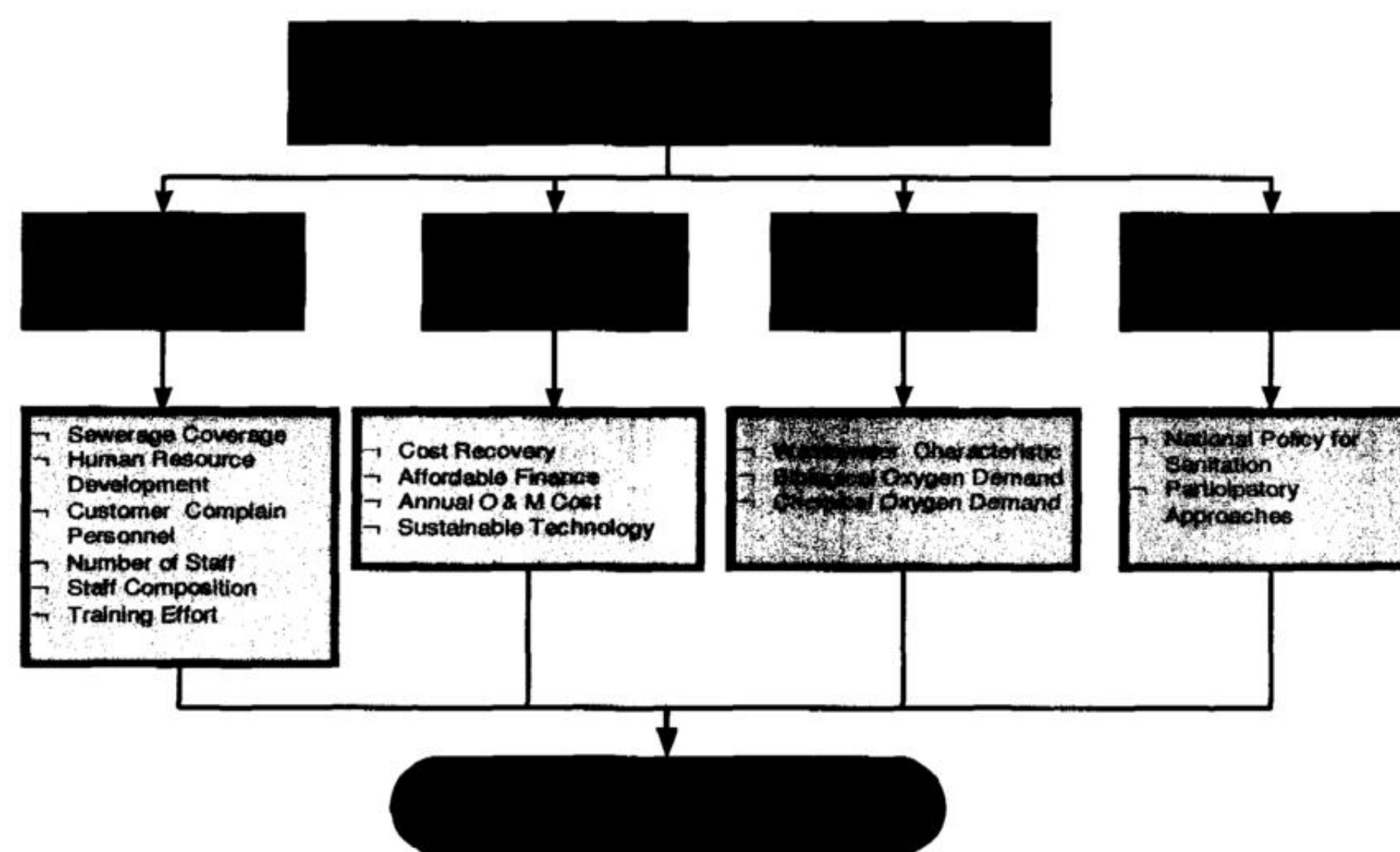


Figure 4.3 Framework of Research Methodology

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