

Preface

Challenges faced by more and more countries in their struggle for economic and social development are increasingly related to water. Water shortages, quality deterioration, and flood impacts are among the problems which require greater attention and action. Globally the good quality of water for various uses has been scarce. Therefore, its management and allocation to meet out the various demand, such as domestic, agriculture, industrial, and environmental become important. However, the sustainable water resources management cannot be achieved without involvement of the stakeholders and public participation. This approach has been adequately addressed through the Integrated Water Resources Management (IWRM). Many counties have implemented this approach, but do not gain considerable success because of lack of public awareness and their involvement. In India, IWRM approach is being implemented by setting-up institution in the form of river basin organizations. For Yamuna river basin, effective management and planning of water resources accordance with geological formation, topography and climate has been investigated and linked to the public participation and awareness. The investigation was systematically planned and campaigning was made in different parts of the Yamuna river basin. Based on the analysis of information and available secondary data, necessary interpretations were made in light of the IWRM approach and documented as case studies in the present book.

This book has been presented into eleven chapters starting from the introduction to the water resources issues and brief idea of Indian water resources and principles of IWRM. [Chapter 2](#) provides brief overview of the Yamuna River basin. The methodology adopted for the study is presented in [Chap. 3](#). The [Chaps. 4–10](#) presents the various case studies in different catchments of the Yamuna River basin. Finally overall, conclusion and lesson learned from the various case studies are summarized in [Chap. 11](#).

The book will be useful to the water managers, decision makers, administrators, planners, Government, and Non-Government Organizations (NGOs) who involved in water resources management and poverty alleviation.

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