

(PREVIEW)

**HANDBOOK ON
WATER SUPPLY AND DRAINAGE
(WITH SPECIAL EMPHASIS ON PLUMBING)**

FOREWORD

Users of various civil engineering codes have been feeling the need for explanatory handbooks and other compilations based on Indian Standards. The need has been further emphasized in view of the publication of the National Building Code of India in 1970 and its implementation. The Expert Group set up in 1972 by the Department of Science and Technology, Government of India, carried out in-depth studies in various areas of civil engineering and construction practices. During the preparation of the Fifth Five-Year Plan in 1975, the Group was assigned the task of producing a Science and Technology plan for research, development and extension work in the sector of housing and construction technology. One of the items of this plan was the production of design handbooks, explanatory handbooks and design aids based on the National Building Code and various Indian Standards, and other activities in the promotion of the National Building Code. The Expert Group gave high priority to this item and on the recommendation of the Department of Science and Technology the Planning Commission approved the following two projects which were assigned to the Bureau of Indian Standards.

- a) Development programme on Code implementation for building and civil engineering construction, and
- b) Typification for industrial buildings.

A Special Committee for Implementation of Science and Technology Projects (SCIP) consisting of experts connected with different aspects was set up in 1974 to advise the ISI Directorate General in identifying the Handbook and for guiding the development of the work. Under the first project, the Committee has so far identified subjects for several explanatory handbooks/compilations covering appropriate Indian Standards/Codes/Specifications which include the following:

Design Aids for Reinforced Concrete to IS : 456-1978 (SP : 16-1980)
 Explanatory Handbook on Masonry Code (SP : 20-1981)
 Explanatory Handbook on Codes of Earthquake Engineering (IS : 1893- 1975 and IS : 4326-1976)
 (SP : 22-1982)
 Handbook on Concrete Mixes (SP : 23-1982)
 Explanatory Handbook on Indian Standard Code of Practice for Plain and Reinforced Concrete (IS : 456-1978) (SP : 24-1983)
 Handbook on Causes and Prevention of Cracks in Buildings (SP : 25- 1984*)
 Summaries of Indian Standards for Building Materials (SP : 21-1983)
 Handbook on Functional Requirements of industrial Buildings (Lighting and Ventilation) (SP : 32-1986)
 Handbook on Timber Engineering (SP : 33-1986)
 Handbook on Concrete Reinforcement and detailing (SP : 34-1987)
 Handbook on Water Supply and Drainage with Special Emphasis on Plumbing (SP : 35-1987)
 Functional Requirements of Buildings (Other than Industrial Buildings) (SP : 41-1987)
 Foundation of Buildings
 Steel Code (IS : 800-1984)
 Building Construction Practices

Bulk Storage Structures in Steel
Formwork
Fire Safety
Construction Safety Practices
Tall Buildings
Loading Code
Prefabrication

The Handbook on Water Supply and Drainage with Special Emphasis on Plumbing, which is one of the handbooks in the series, deals with the design, construction, maintenance, etc. of all water supply systems and waste water disposal systems with special reference to water supply systems within the premises and waste water collection, transportation and disposal from domestic sanitary appliances. It gives details for design of small individual disposal systems and broad outlines for the design of large scale transportation, treatment and disposal systems for sewage.