



SEMINAR ON SANITATION PROBLEMS  
OF RAPID URBANIZATION

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FINANCING WATER AND SEWERAGE SCHEMES

O U T L I N E

by

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WHO Temporary Adviser

- I Background
  - a. Existing facilities
  - b. Population growth
  - c. Water and sewerage needs. Period 1970-2000
  - d. Cost of urban water and sewerage facilities
- II Goals to be achieved
  - a. Long-range programmes
  - b. Medium range programmes (two to five years)
  - c. Short-range programmes (one year)
- III Cost Composition - Capital Investment
  - a. Study and design (engineering)
  - b. Construction and supervision of works
  - c. Operation and maintenance
  - d. Improvement and developments
  - e. Capital cost

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- f. Capital cost for water systems
- g. Capital cost for sewerage systems
- h. Operation cost for water and sewerage

IV Financing of Urban Water and Sewerage Systems

- a. Subsidized and self-supporting systems
- b. Use of internal capital resources
- c. Use of international credit
- d. Water supply rates
- e. Incomes necessary for sewage financing
- f. Financing sewage treatment
- g. Community participation

V Financing Rural Water Supply Programmes

- a. Community participation
- b. Local resources and international social funds
- c. Rotary construction funds
- d. Operation and maintenance of rural water systems by local water committee