

BANGALORE WATER SUPPLY AND SEWERAGE BOARD CAUVERY WATER SUPPLY SCHEME – STAGE IV : PHASE I

The present available water supply to Bangalore city is a nominal 680 Mld of which 540 Mld is provided by the Cauvery Scheme Stages I-III and balance 140 Mld from the Arkavarthy and Hesseraggatta sources.

At present, the sewerage system in Bangalore covers 270 km² and comprises 4 main drainage areas which drain to three existing sewage treatment plants, one of which is still under construction. Considerable amounts of sewage are discharged untreated to watercourses, drains and tanks creating risks to public health.

The continuing need for development of additional water supply and sewerage facilities has long been evident and preparation of Cauvery Water Supply Scheme - Stage IV, by BWSSB has been underway for several years. A feasibility report outlining BWSSB proposals was prepared by TCE in May 1995, which was appraised by the Overseas Economic

Cooperation Fund of Japan, and a loan was agreed upon to fund the project.

Pacific Consultants International, Japan, Mott MacDonald Ltd, UK and TCE were appointed as consultants for the project in November 1996 and the work is in progress.

As part of the design process, the consultants are required to prepare design review reports for various aspects of the work, which are defined as follows :

- Raw water transfer
- TK Halli water treatment plant
- Transmission system
- Reservoirs and trunk mains
- Sewage treatment plants
- Sewerage system

TCE Scope of Services

- Preparation of feasibility report
- Site investigations
- Prequalification of prospective tenderers
- Preparation and evaluation of bids
- Detailed designs and monitoring
- Inspection services
- Project monitoring
- Commissioning and operation
- Video Film for the project
- Project completion report

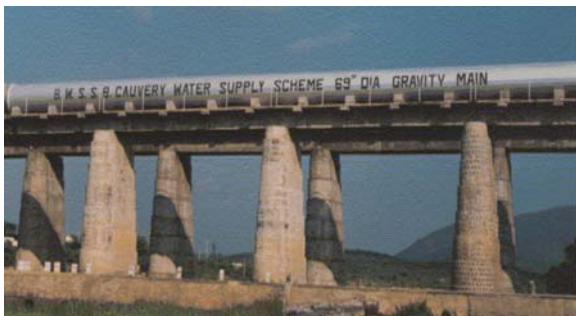


Salient Features

Stage IV - Phase I:

- Clear water output – 270 Mld
- Total head of pumps required – 400 mts (with 3 pumping stations)
- Pipelines required to handle water
Raw water – 10 kms
Clear water upto city - ~ 100 kms
Clear water distribution reservoirs within city - ~ 72 kms (including interconnections)
- Sewage Treatment Plants (STP) – Minimum 15 Mld upto maximum 50 Mld (Totalling 275 Mld)
- Trunk sewers within city upto STP - ~ 100 kms

Estimated project cost – Rs. 1072 crores



EXISTING AND PROPOSED CLEAR WATER TRANSMISSION MAIN TO BANGALORE CITY