

## Water Supply Projects



# Engineering

a better tomorrow



**TCE Consulting Engineers Limited**

## Water Resources

TCE has executed potable water projects involving large schemes for metropolitan cities and minor schemes for small towns and villages. It has also assisted water authorities and government agencies in formulating effective water usage policies.

TCE's services for water resource projects include :

- Geological and hydro geological studies
- Assessing water quality and yield potential of ground water
- Hydrology & water resource studies
- Physical / Mathematical model studies
- Tidal hydraulics and salinity ingress studies
- Rain water harvesting
- Socio economic & environmental impact studies



▲ Water Transmission Line, Bangalore

▼ Radial Drill Well, Sabarmati River, Ahmedabad



▼ Raw Water Transmission Lines, Ahmedabad



▲ Emergency Water Reservoir, Dabhol Power Plant



▲ Kasheli Water Supply Tunnel, Mumbai



▲ Water Treatment Plant, Nagpur



▲ Panjrapur Water Treatment Plant, Mumbai

## Water Treatment

TCE has engineered several water treatment plants with capacities from 12 Mld to 1900 Mld. Some of the major cities for which TCE has engineered water treatment plants are :

- Ahmedabad
- Bangalore
- Chennai
- Mumbai
- New Delhi
- Nagpur



▲ Water Treatment Plant Filters, Lilongwe City, Malawi



▲ Clarifloculator, Haidarpur Water Treatment Plant, New Delhi



▲ Kotarpur Water Treatment Plant, Ahmedabad



▲ T K Halli Water Treatment Plant, Bangalore



▲ Bhandup Water Treatment Plant, Mumbai



## Water Transmission, Distribution, Storage & Pumping

TCE's vast experience in water transmission, distribution, storage and pumping projects includes:

- Reservoirs & Tanks - 1 to 245 MI (> 100 nos.)
- Pumping stations - 3 to 245 Mld/pump (> 50 nos.)
- Large pipe lines - 600 to 2500 mm dia (> 360 km)
- Tunnels - 3 to 4 m dia (> 14 km)
- Distribution system - 80 to 1200 mm dia (> 10,000 km)
- SCADA and telemetry systems.

## Leak Detection

As a pioneer in leak detection for intermittent supply schemes, TCE has made significant contribution to the water conservation and leakage control programmes in the major cities of India and Nepal. TCE also undertakes water audit & energy audit studies.



▲ Substation & Telemetry, Panjarapur, Mumbai



▲ Unaccounted for Water Detection, Chennai



▲ Water Treatment Plant Reservoir, Nagpur

▼ Clear Water Pumping Station, Bhandup



▼ Blending Station, Hidd, West Rifa'a, Bahrain



▲ Worli Water Reservoir, Mumbai



▲ Dhudheshwar Water Storage Tank, Ahmedabad

## Engineering a better tomorrow

TCE Consulting Engineers Limited (TCE), a wholly owned subsidiary of Tata Sons Limited, is a leading engineering consultant with over 3000 prestigious projects to its credit covering diverse realms of industry. With over four decades of rich experience, TCE provides competent and comprehensive engineering consultancy solutions with a global perspective. TCE's **ISO 9001:2000** certified multi-disciplinary services have earned enormous goodwill from clients in India and overseas.

### Integrated Solutions for Water Supply

- Master Plans    ■ Feasibility Studies / Project Reports
- Financial Studies    ■ Hydraulic Network Analysis
- Dam Safety & Risk Assessment    ■ Water & Energy Audit
- Design & Detailed Engineering    ■ Procurement Services
- Inspection and Expediting    ■ Project Management
- Construction Supervision & Management    ■ Commissioning
- Training    ■ Operations & Maintenance Management



▲ Rain Water Harvesting, Maruti Udyog Limited, Gurgaon ▼



▼ 27 mgd Water Supply Scheme Resource, Nagpur





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