

Waste Water Projects



Engineering

a better tomorrow



TCE Consulting Engineers Limited

Integrated Solutions for Waste Water Projects

- Master Plans
- Feasibility Studies / Project Reports
- Financial Studies
- Hydraulic Network Analysis
- Design & Detailed Engineering
- Procurement Services
- Inspection and Expediting
- Project Management
- Construction Supervision & Management
- Commissioning
- Training
- Operations & Maintenance Management
- Socioeconomic & Environmental Impact studies



▲ Digestors & Gas Holder, New Delhi



▲ Sludge Drying Beds, New Delhi



▲ Pilot Waste Water Treatment Plant, Ahmedabad

▼ Waste Water Treatment Plant, Yamuna Vihar, New Delhi





▲ Aerated Lagoons, Versova, Mumbai

Waste Water Treatment

TCE has engineered waste water treatment plants of capacities ranging from 60,000 litres/day to 285 million litres/day covering :

- Aerated lagoons - 75 Mld & 285 Mld
- Activated sludge process - 45 to 182 Mld
- Waste water treatment plants - 10 to 285 Mld

Some of the major cities for which TCE has engineered waste water treatment facilities include :

- Ahmedabad
- Bangalore
- Mumbai
- New Delhi
- Pune



▲ Terminal Sewage Pumping Station, Ahmedabad



▲ Sludge Pumping Station, Kondli, New Delhi



Waste Water Collection, Pumping & Disposal

TCE has designed waste water collection and conveyance systems for several cities and industrial estates in India, which include :

- Waste water pumping stations - 5 to 820 Mld (> 50 nos.)
- RCC ducts - 3 to 6.25 sq. m (> 20 km)
- Waste water lines - 300 to 2000 mm dia (> 200 km)
- Marine outfalls
 - Worli - 1826 Mld - 3.4 km 3.5 m dia
 - Bandra - 1860 mld - 3.7 km 3.5 m dia
- Conveyance tunnels - >9 km

Storm Water Drainage & Disposal

TCE has designed storm water drainage and disposal systems for major cities and townships, apart from plot drainage systems for large industrial plants.



▲ Waste Water Conveyance RCC duct, Mumbai



▲ Pre-cast RCC segmentally lined Waste Water Conveyance Tunnel, Mumbai



◀ 1900 Mld Influent Pumping Station, Bandra, Mumbai



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.



▲ Installation of Riser for Marine Outfall, Mumbai

▼ Aerators at Yamuna Vihar Waste Water Treatment Plant, New Delhi





TCE Consulting Engineers Limited

Matulya Centre 'A', 249 Senapati Bapat Marg,
Lower Parel (West), Mumbai - 400 013, INDIA.

Tel : +91 - 22 - 5662 4743

Fax : +91 - 22 - 5662 4723

E-mail : mail@tce.co.in

Website : www.tce.co.in