

## Diesel Power Plants



# Engineering

a better tomorrow



**TCE Consulting Engineers Limited**

## 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.

### Diesel Power Plants - Concept thru' Commissioning

TCE has rich experience in the engineering of independent and captive diesel power plants of varied capacities.

TCE's experience in executing captive diesel power plants encompasses multi-facet functions at different stages of projects, which include :

#### Project Development Phase

- Site selection study
- Techno-economic feasibility studies
- Financial analysis
- Environmental impact assessment



▲ 3 x 3 MW Diesel Generator Sets, ITPL, Bangalore



- ▶ Client : Tata Power Company Limited, Belgaum
- Capacity : 5 x 17.5 MW ( 81.3 MW )
- Year of commissioning : 2001
- TCE's scope : Owner's Engineer services
- Engines : Wartsila, India
- Fuel : Light Diesel Oil / Heavy Furnace Oil



- ▶ Client : International Tech Park, Bangalore
- Capacity : 3 x 3 MW
- Year of commissioning : 1998
- TCE's scope : Owner's Engineer services
- Engines : Wartsila, India
- Fuel : Heavy Fuel Oil



- ▶ Client : Chemplast Sanmar Limited, Mettur
- Capacity : 3 x 6.5 MW
- Year of commissioning : 1997
- TCE's scope : Owner's Engineer services
- Engines : Wartsila, India
- Fuel : Heavy Fuel Oil

## ■ As Owner's Engineer

- for projects implemented on EPC basis

- Preparation of bid specifications, bid review and analysis and purchase recommendation leading to selection of the EPC Contractor
- Review of the designs/drawings prepared and submitted by the EPC Contractor for various civil, mechanical, electrical and control & instrumentation works
- Project management services on behalf of Owner including contract management, quality assurance, inspection, expediting and site supervision



▲ 6.5 MW Diesel Generator Set, Chemplast Sanmar, Mettur

## ■ As Architect - Engineer

- for projects implemented on non-EPC basis

- Concepts and basic engineering
- Procurement assistance covering preparation of tender specifications with bid purpose drawings, review and analysis of bids, participation in bid clarification / bid adjudication meetings and purchase recommendations for the selection of vendors / contractors
- Detailed design and engineering
- Review and approval of drawings and documents submitted by the vendors / contractors
- Inspection / expediting services
- Site services covering supervision of construction, erection, start-up and commissioning
- Project management services



▲ 3 x 9.6 MW Diesel Generator Sets, Kudremukh Iron Ore Company Limited, Mangalore



- ▶ Client : GMR Vasavi Power Corporation Limited, Chennai
- Capacity : 4 x 50 MW
- Year of commissioning : 1999
- TCE's scope : Owner's Engineer services
- Engines : Hyundai, South Korea
- Fuels : Low Sulphur Heavy Stock



- ▶ Client : Kudremukh Iron Ore Company Limited, Mangalore
- Capacity : 3 x 9.36 MW
- Year of commissioning : 1997
- TCE's scope : Architect - Engineer
- Engines : Wartsila, Finland
- Fuel : Heavy Fuel Oil



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