

Pharmaceutical 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.

Pharma Sector

Over the years, TCE has executed projects for several pharma majors in India. TCE's experience in the pharmaceutical sector covers :

- Bulk Drugs
- Drug Intermediates
- Formulations
- Injectables and Vaccines

► **Client :** Max India Limited, Ropar, Punjab

Products : Drug Intermediate (6-APA)

Technology : Toyo Jozo, Japan

Capacity : 6-APA - 80 TPA

TCE's scope : Detailed design and engineering of drug intermediate plant, solvent recovery unit, utilities and offsites



► **Client :** J K Industries Limited, Gajraula, Uttar Pradesh

Products : Drug Intermediates - 7 ADCA

Bulk Drugs - Cephalexin, Cephadrine, Cefadroxil and Cefazolin

Formulations - Tablets, Capsules, Dry Syrups and Peripherals

Process collaborator : Finchimica, Milano, Italy

Capacity : Drug Intermediates - 50 TPA

Bulk drugs - 60 TPA

Formulations - 30 TPA

TCE's scope : ● Detailed design and engineering of process plant

● Basic and detailed engineering of solvent recovery system, utilities and offsites

● Procurement

● Inspection and expediting

● Construction supervision

Special features : ● Formulation unit designed to US FDA standards





► **Client :** Daurala Organics Limited, Daurala, Uttar Pradesh

Products : Phenyl glycine (PG)

Phenyl glycine chloride (PGCL)

Process Collaborator : Giral Limited, Holland

Capacity : PG - 400 TPA,

PGCL - 500 TPA

TCE's scope : ● Detailed design and engineering of entire plant

- Basic engineering of utilities and offsites
- Procurement
- Inspection and expediting
- Construction supervision
- Commissioning assistance

Special features : ● Closed loop drying system for the final product (PGCL)

- Specially designed lead lined peelerhead centrifuge
- Hydrogen chloride gas generation and drying system using molecular sieves



► **Client :** Ranbaxy Laboratories Limited, Ropar, Punjab

Products : Semi-synthetic penicillin (SSP)

Doxycycline (DOXY)

Technology : Ranbaxy R&D

Capacity : SSP - 200 TPA

DOXY - 27 TPA

TCE's scope : ● Detailed design and engineering of SSP and DOXY plants

- Basic engineering of utilities and offsites

Special features : ● Plant Layout approved by US FDA



► **Client :** Tata Pharma Limited, Patalganga, Maharashtra

Products : Chloroquin diphosphate (CQDP)

Technology : Lakme R&D

Capacity : Bulk drugs - 60 TPA

TCE's scope : ● Study of pilot plant trials

- Feasibility studies
- Site selection
- Basic and detailed engineering
- Procurement
- Inspection and expediting
- Construction supervision





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