



- **Project / Process Development**
- **Process Design & Basic Engg. Services**
- **Detail Engineering Services**
- **Technology Solution**
- **Equipment Manufacturing**
- **Turnkey Solutions**



**PARAMOUNT LIMITED**  
(Process Plant Division)

## About Us

Paramount Limited has been successfully serving the Refinery, Petrochemical, Chemical Industries & Large Installation in the field of water for past 40 years, providing turnkey plants and systems to a very large satisfied customer base.

Process Plant Division has been formed to provide Process Design & Engineering Consultancy Services to the Process Industries.

This Division has been existing as erstwhile of Spectra Dynamics Company of Paramount. Currently the division has been merged with Paramount Limited.

Process Plant Division have a team of highly experienced personnel with Process Design & Engineering background.

We are therefore confident of providing quality services within the time schedule.

## Industries Served

- Oil & Gas Processing
- Petrochemical
- Refinery
- Speciality Chemicals
- Pharmaceutical
- Metal Processing
- Chemical Recovery from Effluent



## Scope of Services

### In every project phase ...

#### Project Development

- Feasibility studies
- Environmental impact studies
- Lab / pilot studies
- Pilot and demonstration plants
- Project Management Consultancy

#### Design & Engineering

- Conceptual design
- Process design
- Basic design
- Design review
- Front End engineering
- Detailed engineering
- Special engineering
- Retrofit design

#### Manufacturing

- Pressure Vessels
- Heat Exchangers
- Process Equipments
- Process Skids

#### Project Execution

- Design & Build**
  - Turn Key
  - EPC
  - Equipment Supply
- Construction Management**
  - Project Management
  - Procurement Assistance
  - Inspection Supervision
  - Supervision & Commissioning

#### Operation & Maintenance

- Operation Management
- Optimisation
- Trouble Shooting
- De-bottlenecking
- Operation & Maintenance
- HSE Services
- Operational Support & Technical Services

...we are your partners !

## Process Design & Basic Engineering

### Plant Simulation

- Flowsheet Development with heat & mass balance
- Equipment design optimization
- Physical & thermodynamic properties prediction

### Process Design

- Conceptual design of the plant based on technology data from laboratory, pilot plant or operating plant
- Design of columns, heat exchangers, reactors, Vessels, Tanks, etc.

### Basic Engineering

- Basic Engineering Package preparation for process plants, utilities and offsites
- Development of P & IDs
- Conceptual plant layout development
- Preparation of operating manuals

### Feasibility Studies

- Preliminary process design
- Project cost estimation & operating cost estimation
- Investment return calculations

### Plant Troubleshooting & Debottlenecking & Technical Services

- Capacity Enhancement
- Quality Enhancement
- Effluent Reduction
- Safety Improvement - (Design of fire system in Refinery, Petrochemicals & Chemicals)
- Energy Optimization



## Detailed Engineering Services

### Piping

- Plot Plan Development
- Equipment Layout
- Piping Layout Plans
- Isometrics
- Material Take Off
- Stress Analysis
- Procurement Assistance
- Construction Supervision

### Civil / Structural

- Site Survey
- Foundation Design
- Steel Structure & Super Structure Design
- RCC Design
- Development of Bill of Quantities
- Procurement Assistance
- Construction Supervision

### Mechanical

- Fabricated Equipment Design
- Detail Engineering Datasheet Preparation
- Procurement Assistance
- Erection Supervision

### Project Co-ordination & Management

- Project Planning
- Activity Scheduling & Monitoring
- Co-ordination between Engineers & with Client
- Progress Reporting
- Project Cost Monitoring and Control

### Instrumentation

- Instrument Index
- Detailed Specifications
- Control System (DCS/PLC) Specifications
- Installation Drawings
- Cable sizing and cable-layout
- Bill of Material Development
- Procurement Assistance
- Installation Supervision

### Electrical

- Single-line Diagram
- Specifications for PCC & MCC
- Earthing and Lighting Layouts
- Cable sizing and layout
- Procurement Assistance
- Installation Supervision



## Service Procedures & Standards

We adhere to stringent internal quality standards and procedures to ensure delivery of the highest quality work. These include: From the start to the finish, we dedicate a Project team to your project. This allows for smooth working process and efficient communication.

### Engineering standards

We have Design & Engineering Competence with all global standards & codes like ASME, BS, Merkblatter, DINEN, JIS, GHOST( R ).



## Client List

### Oil & Gas / Refinery / Petrochemicals

- Oil & Natural Gas Corporation Ltd.
- Indian Oil Corporation Ltd.
- Chennai Petrochemicals & Corporation Ltd.
- Cochin Refinery Ltd.
- Mangalore Refinery & Petrochemicals Ltd.
- Essar Oil Ltd.
- Indian Petrochemicals Corporation Ltd.
- Reliance Industries Ltd.
- Hindustan Petroleum Corporation Ltd.
- Gas Authority of India Ltd.

### Fertilizers

- Rashtriya Chemicals & Fertilizers Ltd.
- National Fertilizers Ltd.
- Gujarat State Fertilizers Corporation Ltd.
- Gujarat Narmada Valley Fertilizers Co. Ltd.
- Indian Farmers Fertilizer Company Ltd.
- Shriram Fertilizers & Chemicals Ltd.

### Chemical / Pharmaceutical / Agrochemical

- Ciba - CKD Ltd.
- Orchid Chemicals & Pharmaceuticals Ltd.
- Lupin Laboratories Ltd.
- Gujarat Apar Ltd.

### Misc. Sectors

- Associated Cement Ltd.
- GE Plastic India Ltd.
- SWIL (Copper) Ltd.
- National Aluminum Company Ltd.

### International Customers

#### Europe

- Total (France)
- Linde (Germany)
- Bayer (Germany)
- Heubach (Germany)
- Transpek Silox (Belgium)

#### Middle-East

- KNPC
- Total (Yeman)

#### North America

- Shell (USA)
- Stone & Webster (USA)
- Inox/Air Products (USA)
- Lubrizol (USA)
- TEMA India (USA)
- Rhine Engineering (USA)
- Wink Inc (USA)
- Tartan Engr (Canada)
- Equinox Engr (Canada)
- Sunoco (USA)



## PARAMOUNT LIMITED (Process Plant Division)

(Formerly Paramount Pollution Control Limited)  
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