Project Life Cycle

Feasibility Study

Phase I

Conceptual Design

Phase II

Preliminary Design

Phase III

Detailed Design

Phase IV

Construction

Phase V

Commissioning/

Start-up/ Production

Phase VI

- Manufacturing Capacity
- Block Flow Diagrams
- Technology Assessment
- Level of Automation
- Major Equipment List
- Space Requirements
- Material Flow Analysis
- Warehouse Requirements
- Block Layouts
- Expansion Plans
- Site Planning
- Economic Evaluation
- Long Range Strategic Plan
- Short Range Tactical Plan
- Order of Magnitude Cost of Work Estimate
- Scope Definitions
- Site Selection
- Environmental Assessment
- Heat & Material Balances
- PFDs
- Preliminary P&IDs
- Generic Equipment Specifications
- Equipment Arrangements
- Plot Plan
- Operating & Maintenance Strategy
- Value Engineering Studies
- Milestone Schedule
- Final Equipment Specifications
- Final P&IDs
- Environmental Review
- Soil Investigation
- Foundation Design
- Structural Design
- Power & Lighting Requirements
- Single Line Diagrams
- Instrument Index
- I/O List
- Constructability Analysis
- Construction Schedule
- Cost of Work Estimate +10; -10%
- Site Improvements
- Building Construction
- Equipment Installation
- Commissioning Plan
- Maintenance Plan
- Maintenance Testing
- Software Testing
- Operator Testing
- Trial Runs
- Close-out

Javan Engineering

Built on “Performance & Relationships”