

Deltron Projects Model : EPCM

ENGINEERING

PROCUREMENT

CONSTRUCTION MANAGEMENT

Stage 0
Research

Stage 1
Inception

Stage 2
Concept
& Feasibility

Stage 3
Design
Development

Stage 4 a
Documentation

Stage 4 b
Procurement

Stage 5
Construction

Stage 6
Closeout
& Handover

Engineering

(Civil, Structural, Automation
Engineering, Process,
Mechanical, Electrical
and Architecture)

High Level Design
Study

Project Brief
Scope Definition

Preliminary Design

Detail Design
Calculations

Scope of Work
Scope of Facilities
Cost Estimates

Input to Programme
Bid Development
Bid Evaluation

Field Supervision
Fabrication
Supervision

Defect Rectification
Project
Commissioning
Startup Support

Project Management

(Project Management,
Controls and Planning)

High Level Planning

Project Constrains
Project Programme
Project Budget

Project Estimate
Project Resources
Space & Planning

Communication
Processes
Technical
Coordination
Design Approvals

Cordinate discipline
Input
Review Programme
Review Estimates

Manage Meetings
Manage Client
Approvals
Manage Programme

Construction
Supervision
Manage Scope
Variation

Punching
End of Job
Documentation

SHERQ

(Safety, Health, Environment,
Risk and Quality Services)

Environmental Study

Basic EIA
Gate Review

Full EIA
Gate Review

Design Verifications
Risk Review
Gate Review

QCP Development
Safety files Dev
QA/QC Procudure

Vendor Assessment
Factory Acceptance
Tests
Expediting

Projects Safety
Quality Inspections
Projects Risk
Assessments

Defects
Identification
Sign off QA/QC
Documentation
Site Acceptance
Test

Procurement & Contracts Management

Signed Appointment

Procurement
Strategy
Signed Agreements

Procure Specialists
Studies

Compile RFQ for
Contractors
Procurement
Programme

Compile RFQ for
Contractors &
Suppliers
Tender & Contract
Conditions

Manage
Procurement Process
Procurement
Programme

Payment Certificates
Manage Penalties

Final Account
Management