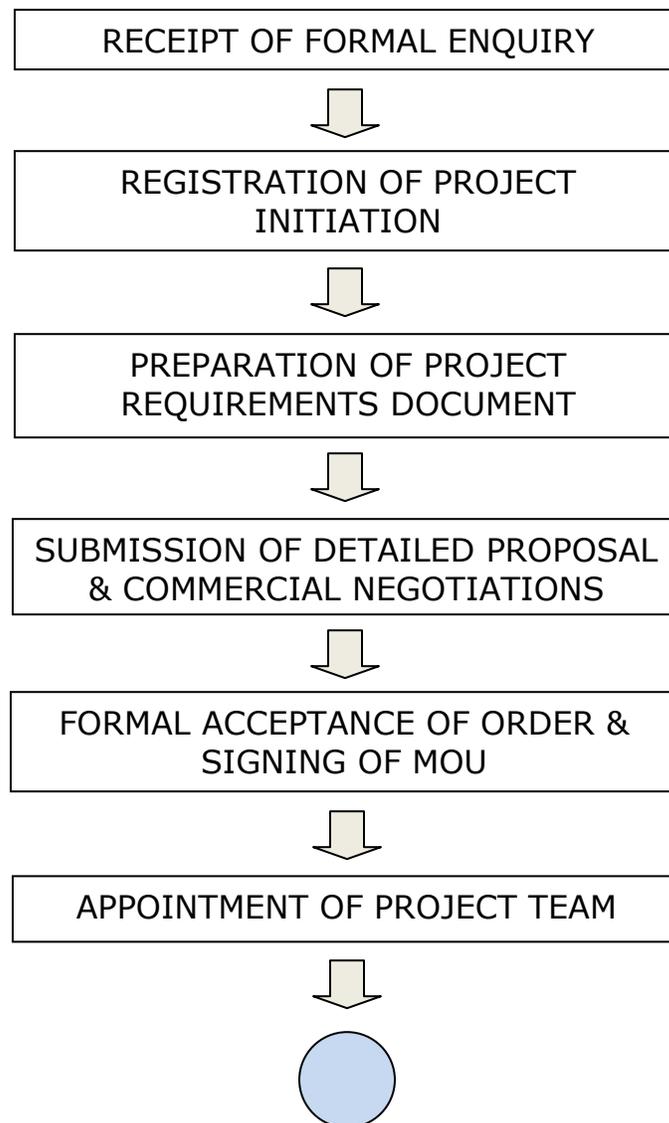
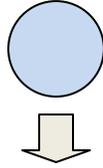


## Project Process Flow Chart

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The below Flowchart gives a logical flow of our project management methodology, "Starting from Enquiry to Close Out of the Project"





CONCEPTUALIZATION

1. Preliminary Project Scope Document
2. Project Risk Management Plan
3. Project Quality Management Plan
4. Project Communication Management Plan
5. Basic Engineering
  - BFD
  - PFD
  - Material Balances
  - Conceptual Plans & layout
  - Utility Requirements (Power, Steam, Air, Chilled Water, Process Water, Raw Water, Vacuum)
  - Plumbing & sanitation requirements
  - Preliminary Control Philosophy
  - Preliminary Schedule



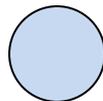
REQUIRED

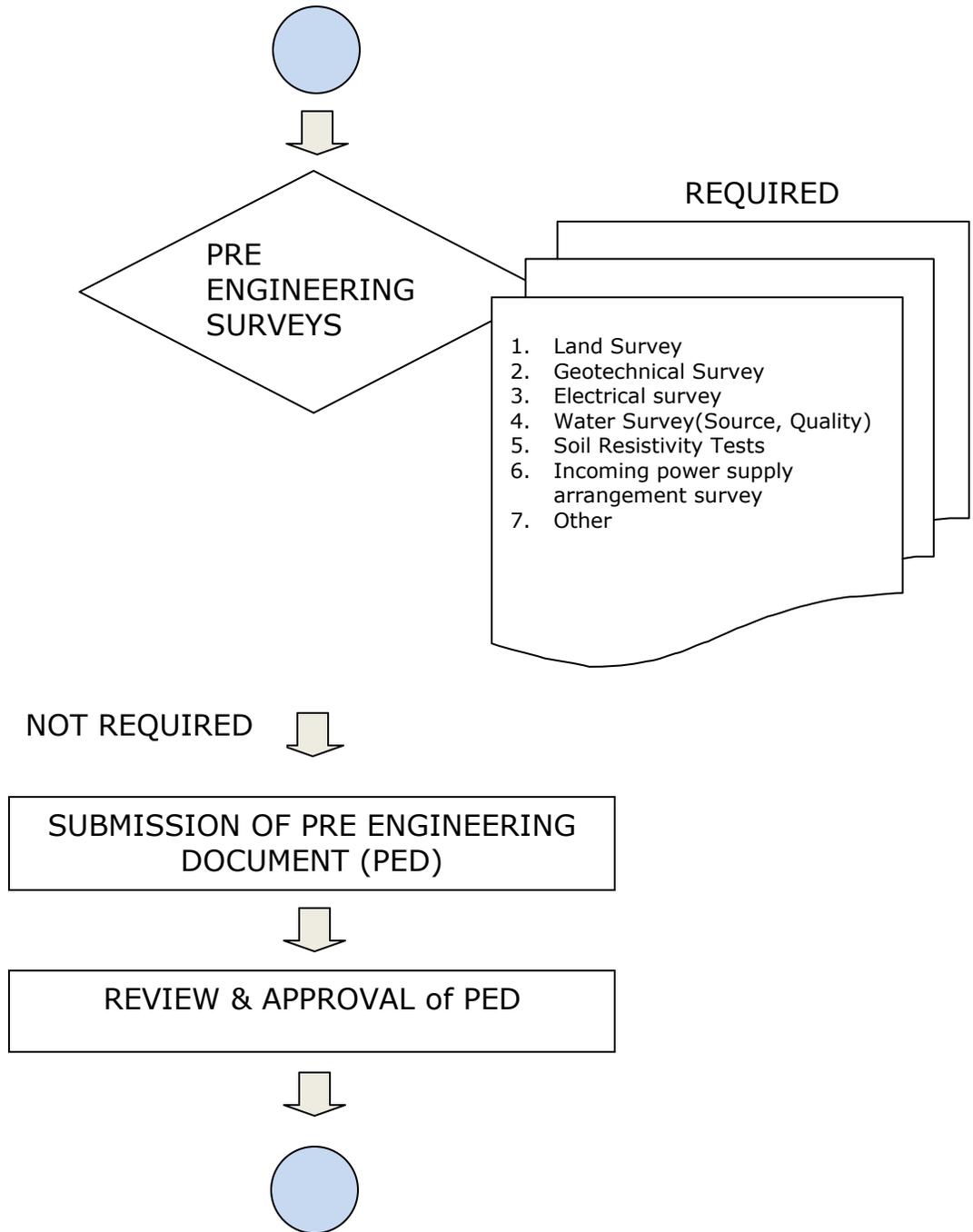


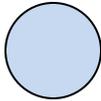
1. Check current and future zoning plans
2. Environment conditions analysis
3. Site development cost analysis
4. Site accessibility analysis
5. Topography analysis
6. Expansion capability analysis
7. Neighborhood analysis
8. Visibility and visual quality analysis
9. Check for availability of utilities
10. Geotechnical considerations
11. Check for influence of local codes & permits



NOT REQUIRED







**STATUTORY APPROVALS  
(CONSENT FOR ESTABLISHMENT)**

1. Prepare approval drawings
2. Prepare approval documentation
3. Submission of drawings and documents for approval
  - State Pollution control board
  - Factory Inspector
  - Department of health
  - District fire officer
  - DTCP
  - Industrial development authority
  - Any other local body

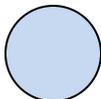
In Parallel with  
Detail Engineering



**COMMERCIAL REGISTRATIONS**

In Parallel with  
Detail Engineering

1. Sales tax registration
2. PAN & TAN registration
3. Service tax registration
4. Customs and central excise registration
5. Labor license



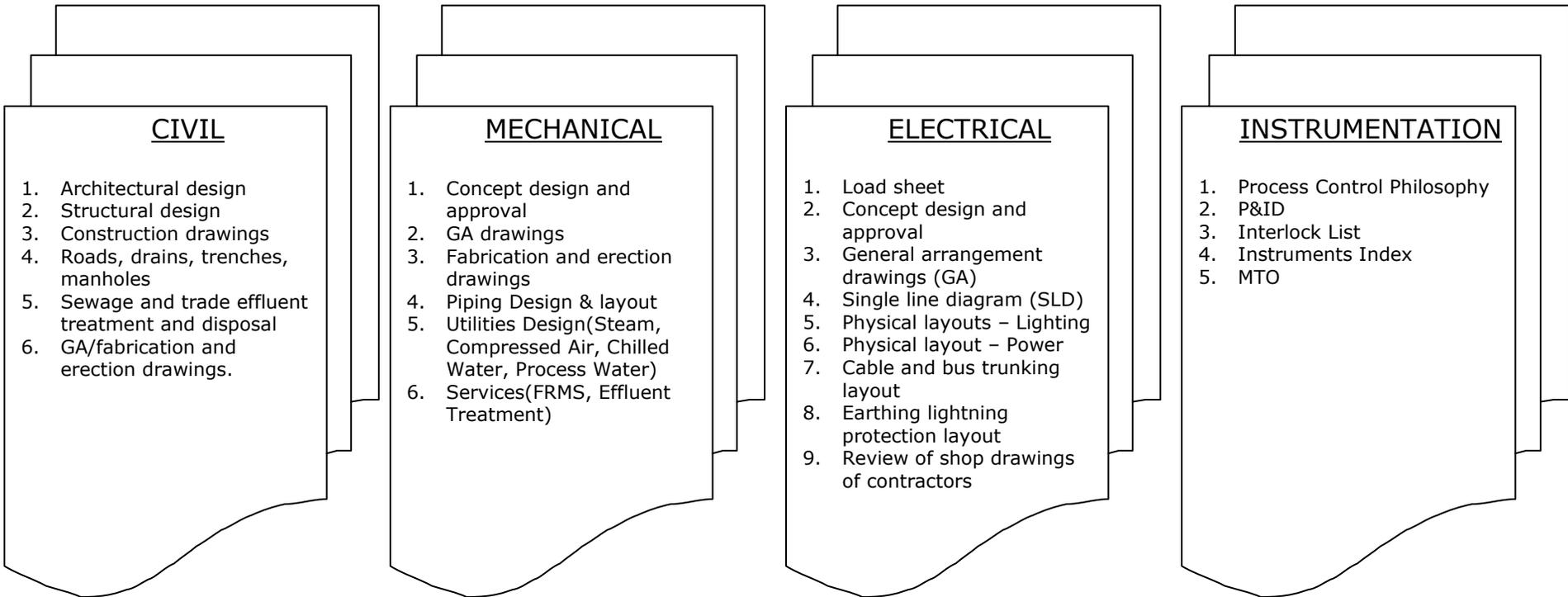


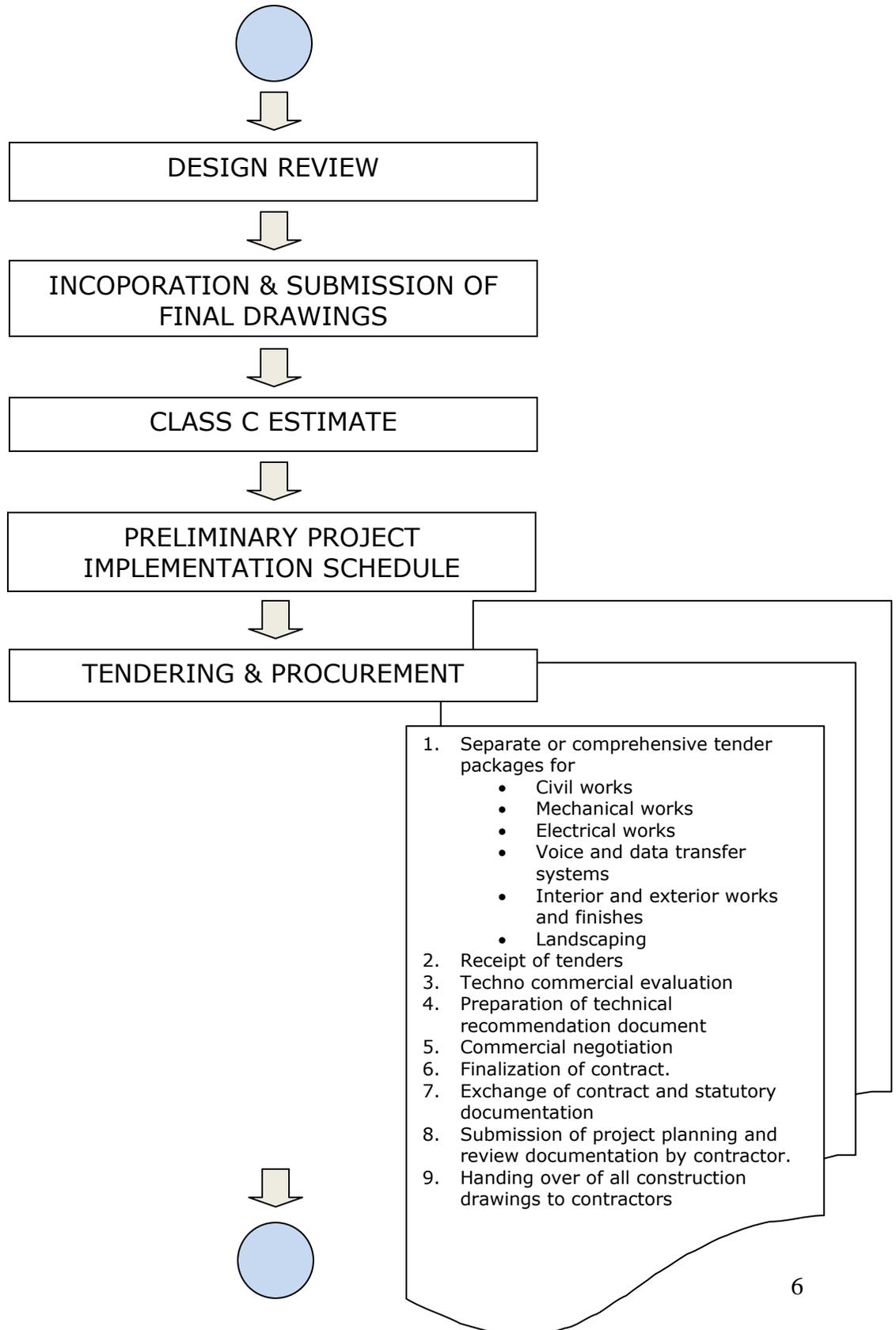
DETAILED ENGINEERING WORKS

In Coordination with  
External Design  
Consultants



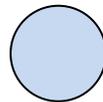
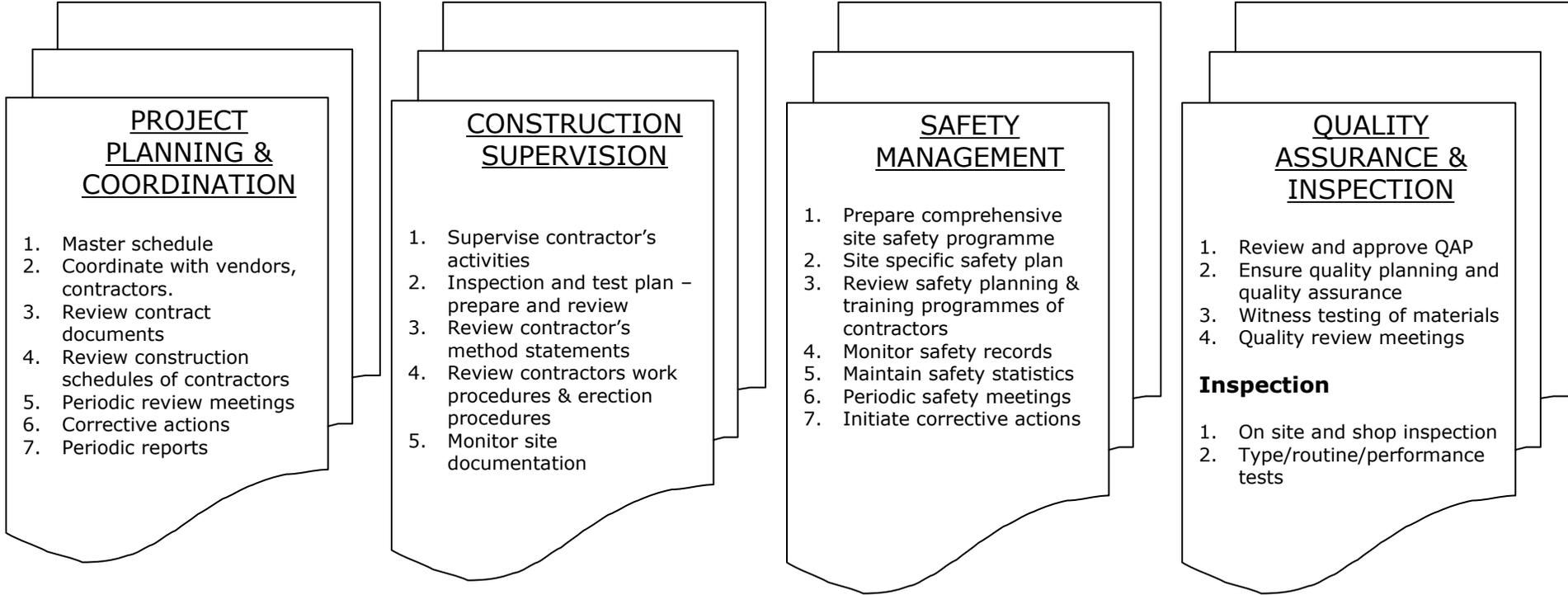
DESIGN SCHEDULE







PROJECT & CONSTRUCTION  
MANAGEMENT





CONSTRUCTION PHASE

1. Construction work by contractor
2. Submission of shop drawings and working drawings by contractor and approval
3. Periodic project review
4. Construction phase competition
5. Apply for electrical power



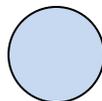
CERTIFICATION OF BILLS

1. Review of measurements submitted by the contractor
2. Review of completed work.
3. Certifying progress payments as per contractual terms.
4. Fix rates for extra works and change orders.
5. Resolve scope changes and extra claims.
6. Final audit and certifying final payment to contractors



VALIDATION

1. Scope
2. Design
3. Quality
4. Safety
5. Schedule
6. Budget





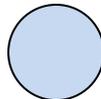
**COMMISSIONING ASSISTANCE**

1. Check for completion of commissioning procedures, Operation and Maintenance Manuals
2. Dry Commissioning
3. Wet Commissioning
  - Witness checks & record all commissioning and performance tests.
  - Issue taking over final certificate and hand over of the facility.



**HAND OVER**

1. As Built Drawings
2. Project Dossiers
3. Plant Dossier
4. Capitalization Asset Register
5. Statutory Approvals – Consent for Operations
  - Prepare final approval drawings
  - Prepare final approval documentation
  - Submission of drawings and documents for approval
    - a) State Pollution control board
    - b) Factory Inspector
    - c) Department of health
    - d) District fire officer
    - e) DTCP
    - f) Industrial development authority
    - g) Any other local body





CLOSE OUT

1. Lessons Learnt
2. Opportunity for Improvement
3. Close Out Report