

Process Feasibility Evaluation

Content

- **Introduction** – Who has performed this study and who is the client.
- **General description of the process** – Block diagram.
 - Definition of feed materials
 - Pre-preparation
 - Leaching procedures and filtration
 - Metal separation and purification
 - Preparation of product
 - Bleeds treatment – Residues and effluents (emissions)
- **Process documentation**
 - Process design capacity
 - Process flow and instrumentation diagram (P&ID)
 - Main equipment specification list
- **Investment Cost** – Main and auxiliary equipment
 - Main and auxiliary equipment
 - Installation material – Piping and cabling
 - Process operation and control – Necessary instrumentation
 - Media support – Cooling tower and compressor – Storage farm – First fill of chemicals – Spare parts
 - Documentation and confirmation of process design
 - Installation, commission and training
- **Buildings and constructions cost**
 - Steel and concrete supports and stands
 - Lifting and transportation devices
 - Office and service spaces
 - Ventilation
- **Operation costs**
 - Raw material cost (destruction cost)
 - Chemicals and energy
 - Maintenance and service
 - Personnel – staffing
- **Products revenue**
- **Economical summary**
 - Investment, Equipment building and support
 - Sales Revenue
 - Operating cost
 - Process feasibility
- **Total production result, ROA (return on assets)**

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