

Project title: Chlor-Alkali

Products/Services: caustic soda and liquid color

Project description: The chlor-alkali process, in addition to producing liquid chlorine, yields a critical chemical compound known as caustic soda. Caustic soda is a pivotal element in various chemical industries. It's noteworthy that the primary input material for sodium sulfide production, an essential component in ore processing for mining, is caustic soda .Caustic soda boasts a significantly high export value. The technology employed in its production has reached an advanced stage and is exclusively manufactured by a select few companies. In the modern chlor-alkali industry, the two principal products, caustic soda and chlorine gas, are simultaneously generated from an aqueous salt solution. The production ratio of these two commodities is predominantly one ton of caustic soda to each ton of chlorine gas. In addition to these primary products, hydrogen gas is produced at an approximate rate of 28 kilograms per ton of chlorine gas. This hydrogen gas, as a byproduct of the production process, is utilized on-site and may find application as a fuel or in hydrochloric acid production.

Location: Kerman-Iran

Annual capacity: 40,000 Ton Caustic soda flakes caustic or 80,000 Ton caustic soda 50%

Financial Structure

Financial Table

Description	Equivalent in Euro
Fix Capital	23,992,320
Working Capital	2,162,867
Total Investment	26,155,186.49

- Value of foreign equipment/machinery 20,339,490 €

- Value of local equipment/machinery 3,652,830 €

- **Net Present Value (NPV):** 595,402,591,501 IRR for 5 Year

- **Internal Rate of Return (IRR) :** 39%

- **Payback Period (PP) :** 2.5 Year

Project Status

Local / internal raw material access 100 %

Sale : Anticipated export market 70%

Construction Period : 18 month

Project Status :

- | | | |
|---|---|--|
| - Feasibility study available? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| - Required land provided? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| - Legal permissions (establishment license, foreign currency quota, environment, etc) taken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| - Partnership agreement concluded with local/foreign investor? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| - Financing agreement concluded? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| - Agreement with local / foreign contractor(s) concluded? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| - Infrastructural utilities (electricity, water supply, telecommunication, fuel, road, etc) procured? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| - List of know-how, machinery, equipment, as well as seller / builder companies defined? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| - Purchase agreement for machinery, equipments and know- how concluded? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |