



REPUBLIC OF TURKEY
MINISTRY OF ECONOMY

Lineer Kostik Soda Sanayi ve Ticaret A.Ş.

80TPD CAUSTIC SODA PLANT
(Equivalent to 28,000 NaOH MT/Year)

**BASED ON MEMBRANE
CHLOR-ALKALI PROCESS**



00902122510070



00902122510072



www.lineerkostik.com

Main office Address Levent Mahallesi, Beyaz Karanfil Sokak, No:2, Beşiktaş, İstanbul Turkey
Factory location: Aliaga, İzmir, Coraklar Neig, Aliaga Organize Sanayi Bölgesi, 115, 1 land, Turkey

Location

*In **Izmir Factorial City** Alisbo Ali Aa Organzie Sanayi Blgesi Aliaa Organized Industrial Zone (ALOS-B), which was established on an area of approximately 10 million m2 and embodies the industrial establishments that have a voice in the country's economy and the global market with its employment, foreign trade, innovative products, and has been carrying on its way to become a world-famous manufacturing center; has become the focus of industrialists, domestic and foreign industrial zones with its modern management understanding and applications that it has made.*

Incentive support by:

1.

Customs duty exemption (foreign customs tax will not be taken)

2.

Tax reduction or exclusion (Incentive support document owners have tax deduction up to twice their investment amount or corporation tax exemption up to 5 years)

3.

Aid for income tax withholding (Up to 5 years support will be fully provided)

4.

Aids for energy (Energy support as much as half of consumption for 10 years)

5.

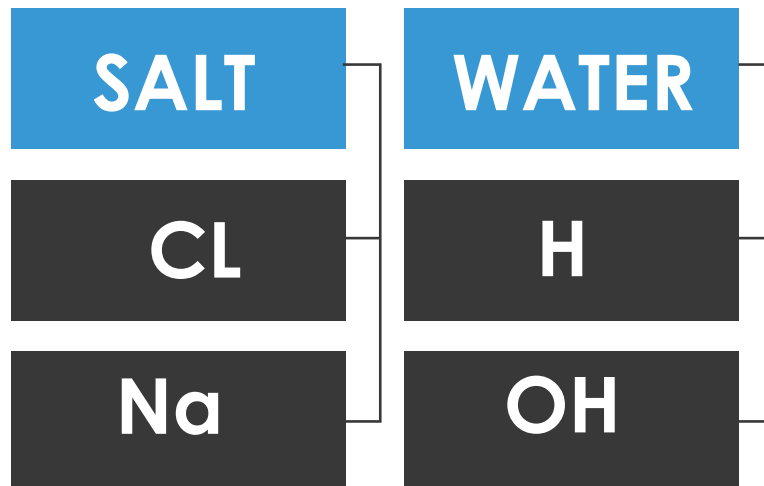
Making exception for permissions, allowances, licenses and registration required by law, and other restrictive provisions, or making facilitating arrangements in the legal and administrative processes.

METHODOLOGY:

Membrane cell production, diaphragm cell and mercury cell production is the most advantageous compared to the production is much more efficient.

The membrane cell process requires less energy and is much more environmentally friendly than it produces hazardous waste products such as mercury or asbestos. In addition, working with this process is extremely safe. It is possible to produce caustic soda continuously with high quality with low maintenance costs. Yearly on-stream working hours will be 8000 hours.

Project Idea



technology used

Mambrane CELL	Diaphragm cell	Mercury cell
2600kwr/ton	3000	3400
A friend of the environment security Simple maintenance and quality	ASBESTOS contamination	MERCURY pollution

Why caustic soda ?

1.

According to the UN Comtrade statistics in 2018, more than 420 thousand tons of caustic soda and the material cost is about 160 million dollars.

2.

Unfortunately, 70% of the used raw materials are imported and 30% is supplied with domestic production.

3.

Caustic soda is used in the production of more than 40% of the total inorganic chemicals and in the production of dough and paper, chemicals, alumina, soaps and detergents, are used in various applications. The growth of the caustic soda industry is directly linked to the end use industry extensions.

For example; paper clay and paper and the increasing demand from the textile industry is also a fact that will provide growth of the caustic market.

4.

Acid neutralization, agriculture chemicals, aluminum, battery recycling, cellulose film, detergents, dyes, food processing, ion exchange resin regeneration, ore demolition and processing, paint removers, oil purification, pH adjustment, pharmaceuticals, pigments, paper production, surface active materials, soap, textile bleaching, vegetable oil processing, water treatment and so on. products and processes. Sodium aluminate, sodium hydrosulfite, sodium hypochlorite, sodium phosphates, styrene, vinyl chloride monomers and the like, and the like. It is used in the production of chemicals.

Accompanying Produced Materials:

Hydrochloric Acid – HCl or muriatic acid market is poised to witness growth over the forecast period owing to increasing demand from application industries such as water treatment, food processing and oil & gas. In addition, growing HCl use in steel and pharmaceutical.

Sodium Hypochlorite NaOCl is the main ingredient in laundry bleach. It is used extensively as a bleaching agent in the textile, detergents, and paper and pulp industries. It is also used as an oxidizing agent for organic products. In the petrochemical industry, sodium hypochlorite is used in petroleum products refining. Large quantities are also used as a disinfectant in water and wastewater treatment and sanitary equipment.

In food processing, sodium hypochlorite is used to sanitize food preparation equipment, in fruit and vegetable processing, mushroom production, hog, beef and poultry production, maple syrup production, and fish processing.

Company philosophy:

Vision: To rise to become a leading chemical company in the world.

Mission: Establishing a chain of chemical plants and high quality products.

Values

Customers:

1.Teamwork:

- Collaborate with others to achieve the company's goals.
- Recognizing the importance of difference and diversity in the team.

2.Care and respect:

- Listening to the interests of the company's customers.
- Taking care the needs of the company's customers.

Staff:

1.Teamwork:

- Enjoy the confidence and honesty to assign responsibilities to employees to carry out the work efficiently.
- Training and guidance to develop staff capabilities.

2.Integrity:

- Apply company values.
- Do the right thing even if no one sees you.

3.Craft:

- The product is of high quality at all times.
- Efficiency and effectiveness in your roles and duties.

4.Responsibility:

- Doing the work as promised on the basis of agreed objectives.
- Show commitment to your tasks.

Work:

1. Reputation/Fidelity:

- Compliance with the law and business principles to maintain credibility with the company's customers and government licenses to operate.
- Stick to the interests of working at all times without violating the reasons of confidentiality in the company.

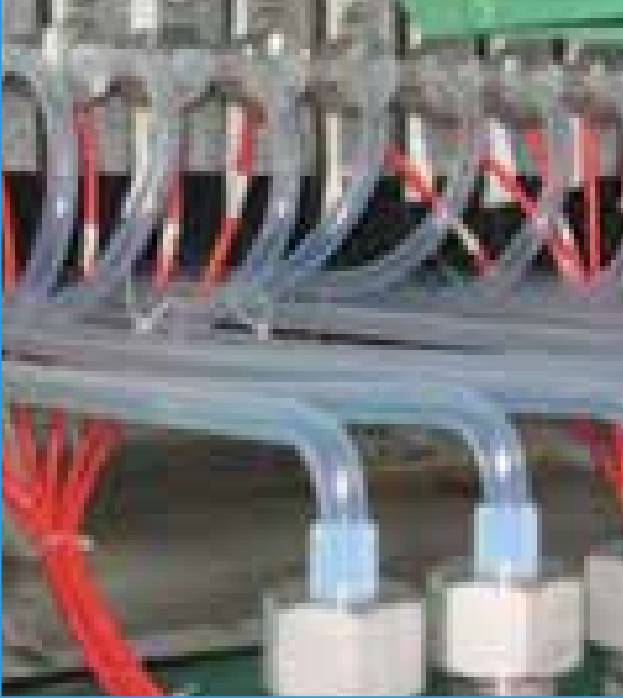
2.Transparency and justice:

- Engage employees/customers of the company in an honest and transparent manner.
- Provide equal opportunities for all employees without bias.

View of the proposed salt storage and salt dissolving pits.



Feed & Overflow Tubes



Feed Tubes



**Overflow
tubes**

Bagging of Caustic Soda Flakes in PP Bags.



Picture of internal connections



Picture of external connections



Photo **Professor Muzaffar yshar** the company's scientific advisor during his visit to the British company Ineos , which is licensing the soda i ndustry and the manufacturer of the chemical analyzer.



The chairman of the company, **Dr. Mohammed Al-Hamiqani**, in-between the director of The Company of Ineos and his deputy during his visit to the company's in Britain.





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