



## **Siel Chemical Complex, Rajpura**

### **Unit Profile**

**Siel Chemical Complex (SCC) is one of the leading Chlor- Alkali manufacturer in North India. The products are Caustic Soda (Flakes & Lye), Hydrochloric Acid, Stable Bleaching Power, Sodium Hypochlorite, Hydrogen and Liquid Chlorine. The manufacturing process is based on the environment friendly Membrane Cell Technology. The technology involved consist of fine control of all process parameters with world's most sophisticated Distributed Control System (DCS). Safe operation is an integral part of the DCS.**

**All the products manufactured, conform to BIS standards. The organization is ISO 9001-2000 certified for the manufacture of Stable Bleaching Powder.**



**Organization got ISO 14001:2004 Environment Management System Certification from DNV under accreditation of Dutch Council Accreditation (RvA) w.e.f. 3rd June 2006**

## Energy consumption

By implementing various energy conservation projects there has been a consistent decrease in the specific Electrical consumption

DESCRIPTION	UNITS	2004-2005	2005-2006	2006-2007
Annual production	MT	60082	69362	72732
Total electrical energy consumption/annum	Lakhs kWh	1910.13	2115.30	2209.35
Specific energy consumption-Electrical	kWh/tonne	2752	2626	2597
Total Fuel consumption/annum	KL	4027	4878	5843

S.No.	YEAR	Electricity Consumption (KWH/Tonne)	% reduction over 2004-2005
1.	2004-2005	2752	-
2.	2005-2006	2626	4.58%
3.	2006-2007	2597	5.63%

## Energy Conservation Commitment, policy and set up.

**Siel chemical complex** considers Energy Saving as a multi disciplinary approach. Plant energy profile consists of Electricity, Furnace oil and Water. Energy conservation plans, policy and structure are reviewed periodically. In house energy conservation seminar, poster and slogan competitions are also conducted every year. Energy Management policy is displaced every where in the plant for creating the energy conservation awareness.

## Siel Chemical Complex, Rajpura



### Energy Management Policy

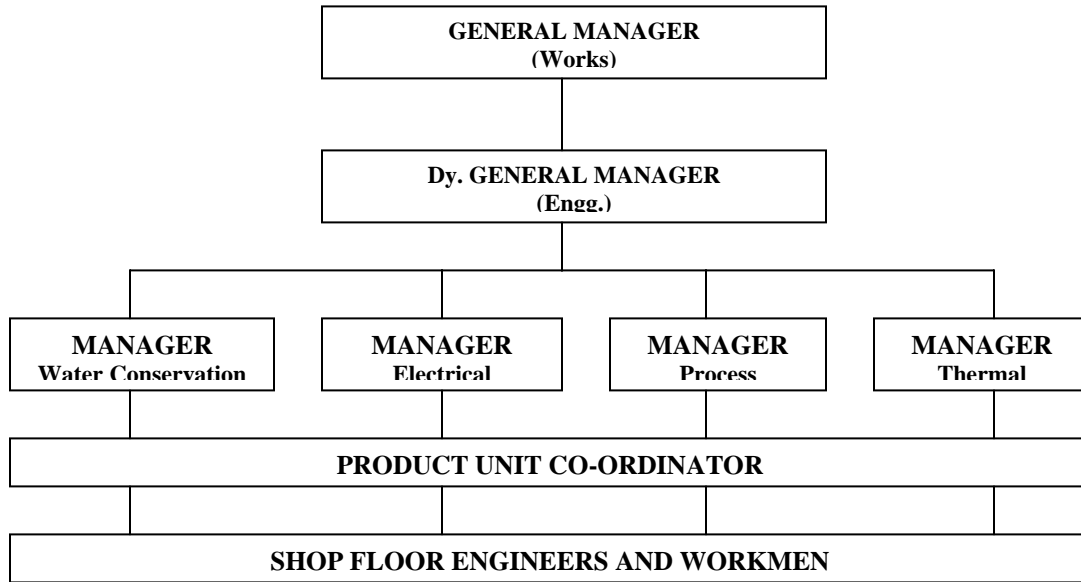
Siel Chemical Complex is committed to Energy Conservation By:

1. Maximizing the Capacity Utilization.
2. Promote Energy saving jobs and maintaining Cell House (Electrolyser & Bus-Bar) efficiency.
3. Promote awareness & Importance of Energy Conservation among all employees through seminars, Competitions.
4. Recognizing suggestions given by employees for continual improvement in Process, Energy Conservation & Efficiency.

  
General Manager (Works)

## ENERGY MANAGEMENT POLICY

### ENERGY MANAGEMENT CELL STRUCTURE



### Energy Conservation Plans and Targets

S.No	Energy Conservation Measures (planned)	Anticipated savings in(Rs. Lakhs)	Approx. investment (Rs.lakhs)	Project commencement & Completion year
1.	Installation of 11 kv Harmonic filter cum Capacitor bank to improve power factor from 0.99 to Unity	0.12	12	2007-08
2.	To operate one Transformer out of T-8 &T-9	0.47	0	2007-08
3.	Using hollow FRP fan Blades for Cooling Tower	4.1	3.8	2007-08
4.	Installing VFD/Thermostatic controllers for CT.	3.8	1.2	2007-08

### Others Plans

- 1. Replacing faulty header traps**
- 2. Moisture separator for Steam Atomiser**
- 3. Installation of VFD on 45 KW pump.**
- 4. Optimum usage of 1x300 TR screw chiller by operating two compressors.**
- 5. Attending steam leakages.**
- 6. Attending insulation**

### **Environment & safety**

**Siel Chemical Complex** has environment and safety departments which maintains the safety standards and ensures that safety measures are being followed strictly. There is a First-Aid Center in Complex managed by Doctor round the clock. An ambulance is also readily available to shift the patients in case of emergency.

Siel Chemical Complex has made significant efforts in creating green environment by adopting clean technology, clean working practices and development of greenbelt in and around the factory. It constantly organizes functions to create awareness amongst the school children, local public and community at large regarding the importance of protecting the environment and the company's endeavour towards the same. PPCB and public have recognized SCC's effort for protection of the environment and awarded in various public functions.

Further to strengthen its commitment to safeguard the environment, the organization has adopted the latest Environmental Management System (ISO 14001:2004) to meet the requirements of the environment concerned customers and agents.

