CHAPTER - 02

INDOGULF

AN

OVERVIEW
UNIT-PROFILE

HISTORY OF THE ORGANISATION:-

HISTORY AND BUSINESS OF THE COMPANY: -

The company was incorporated on 28th October 1983 on a public Ltd. Company with the immediate objective to setup facilities for the manufacturing of 1350 tonnes per day of Ammonia and 2200 tonnes per day of urea at Jagdishpur industrial Area District Sultanpur, Uttar Pradesh for which the company obtained on industrial license from the Govt. of India GRASIM, HINDALCO & INDIANRAYON the three blue chip companies with an excellent and proven track record have joined hands with PICUP (The pradeshiya industrial and investment corporation of U.P. Ltd.) the dynamic driving force in U.P.'s industrialization A GCSI (gulf consolidated company for services and industries, Ec.) Bahrian to setup this project.

INTRODUCTION TO INDOGULF FERTILIZERS: -

In order to utilize the vast resources of natural gas available from Bombay high/basin fields Govt. of India decide to set-up gas based nitrogenous fertilizer plants. This grass root project is one of the six gas based plants utilizing natural gas as the main raw material from Hazira-bijaipur – Jagdishpur (HBJ) pipeline running in 170km length from Bombay highway.

Indo-gulf has the pride of being 1st ISO 9002 Fertilizer Company in India, Indo Gulf's Jagdishpur plant is one of the most
energy efficient Ammonia/Urea plants in the Country. Company is in the business manufacturing marketing urea under the brand name “Shaktiman Plus”.

Indo-Gulf Fertilizers & Chemicals corporation Ltd. was promoted by their blue chip companies of A.B. group. But now it had converted to IGCL only (Indo-Gulf) corporation Ltd.)

Commencement of Project activity : August 1985
Mechanical completion of project : August 1988
Commissioning : August 1988
Commercial production : 1st Nov. 1988
Investment : Around US & 400 Million
Total area covered : 355 hectares

Capacity of Plant

Ammonia Plant : 1 x 1663 MTPD
Urea Plant : 2 x 1425 MTPD
Total tonnage of Steal Structure : 11,000 M.T.
Total Piping : 7000 M.T.
Total RC : 1015 JOM3
Total Tanks Equipment & Machinery : 17600 M.T.
Total Cable (Elect & Inst.) : 800 K.M.
Man house spent : 28,000,000C

Indo gulf has also diversified by setting up a copper Smelter complex ‘Birla Copper’ at the investment of Rs.1850 crores at Dahoj in
Gujarat. The smelter with a capacity of 1, 50,000 TPA will have the flexibility to use a wide range of copper concentrates.

**PLANT AT A GLANCE**

The whole plant of Indo-Gulf has been divided into 4 phase.

(i) Ammonia Plant  (ii) Urea Plant

(iii) Bagging Plant  (iv) Power Plant

From the above the urea plant is been dealer in detail because it is the phenyl Product after that only bagging is started urea plant is also the main plant in absence of it all the Process will be stopped.

**UREA PLANT: -**

The Urea Plant is based on Shamp segment Ammonia self-stripping process. In this process Co2 and Liquid Ammonia obtained from the Ammonia plant arrived to the urea reactor operating at a temperature of 1850C pressure of 150kg/cm3 through multistage compreasure and plunger pumps respectively. In the reactor CO2 reacts with liquid outlet ammon to Ammonia carbonate and urea. The liquid outlet ammon to Ammonia carbonate and urea. Unconverted Ammonia, carbonate and water of reaction in sent to a high-pressure steam. Ammonia and carbon and co2 are removed from urea and carbonate solution. The solution containing 46% weight of urea and carbonate leaving the strippers is future processed in two stage decomposers with steam as heated media to obtain 72% urea solution.

The urea solution is further concentrated in order to get 99.75-urea melt, which is pumped, to the spinning-pilling bucket. Located at
the top of prilling tower to get Urea prills. The urea prills are cooled and collected at the bottom the prilling tower and rotary scrappers guide it to urea conveyor and sent to the urea bagging or to silo (capacity 45,000 tonnes) for bulk urea storage.

MAIN FEATURES OF THE IGFCL:-

SOCIO-ECONOMIC BENEFIT:-

The project is set up in a 'Non-Industry' district & therefore it help in economic development of area. By this the farmer by 4 million tonnes additional food grain. Since the import of fertilizer is reduced and country can save foreign exchange.

AGRICULTURAL PROMOTIONAL ACTIVITY:-

"Growth from Ground Level"

The main motive is to make farmer educated in the field of new & effective educational technology. Farmer are guided to make timely use of inputs to achieve higher form productivity and returns.

The company has setup a chain of 'Shaktiman Krishi Seva Kendras' in the state of U.P. Bihar, W.B..

"Making a small but Significant Difference"

The company continues to lay emphasis on rural development & community welfare activities in the village surrounding the unit. The company has already trained 1192 villagers from then 800 ax already employed.
ENVIRONMENTAL PROTECTION AND SAFETY:

With the increasing awareness of pollution of the environment design measures is incorporated to eliminate the hazard ecology. The plant maintain "Zero Effluent" objective.

The company is also working to maintain & external the "Green belt" to cover a large area in and around the plant. The company has received annual award for the year 1994-95 from the fertilizers association of India for the best environmental protection amongst the nitrogenous fertilizer plants in the country.

TECHNICAL ARRANGEMENTS:-

The technical arrangements for the project are covered under basically three heads.

a) Service contract with snamprogetti S.P.A. Italy for overall management of the project supply of urea process license design, engineering etc.

b) Supply contract with snamprogetti S.P.A. Italy for the supply of imported equipment's materials and spares and for the installation and commissioning of such imported equipment and materials required for the project.

c) With Haldor Topsoe A/S (ATAS) Denmark for the use of HATS reforming process and ammonia synthesis process.

Snamprogetti has been nominated project and development India Limited (PDIL) for service in India.
LOCATION:-

The project is setup at Jadishpur Industrial area, Distt. Sultanpur, with is a category “A” backward are (No Industrial District) in U.P. well conclude by National highway and Railway.

LAND:-

Land acquired by the company for the project is 833 acres.

COST OF THE PROJECT:-

The plant was mechanically completed within the 36 month from zero Date & commercial production started after 3 month The cost of the project is Rs. 720 Crores.

SOURCE OF FINANCE: - (Not necessary)

Production Capacity of Different plants area as under.

<table>
<thead>
<tr>
<th>Plant Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia Plant</td>
<td>1350 MTPD</td>
</tr>
<tr>
<td>Urea Plant</td>
<td>2X1125 MTPD</td>
</tr>
<tr>
<td>Power generation</td>
<td>190 M.W.</td>
</tr>
<tr>
<td>Steam Generation</td>
<td>2x100 MT/HR</td>
</tr>
</tbody>
</table>

NUMBER OF EMPLOYERS:-

1188 Employees are working in the org. at (1997-2007).

PRODUCT:-

Product of the organization as “Urea” Marketed under the Brand name of “Skaktiman Flus”.

MARKETING NETWORK:-

The U.P. Punjab, Haryana, Bihar, West Bengal are the main market for the plant. The distribution of fertilizer is organized through well-established Apex Institutions and through private
leadership org. provides all agricultural service to the farmers.

CORPORATE PHILOSOPHY OF IGCL:-

The corporate Philosophy of IGCL is to:

a) Reach perfection & excellence in the quality of management in all the sphere by adopting the concept of TQM

b) Develop an organizational culture based on trust team, efforts, participate management and consultation , shared vision , innovation and

c) Attain and establishment market leadership.

d) Discharge its social responsibility and maintain a clear environment.

QUALITY POLICY OF IGCL:-

Indo-Gulf fertilizer aims at complete customer’s satisfaction by :-

* Involving all the people of the organization verdurous sales network and other in its total quality process.

* Developing and up grading technology and service on a continues basis.

* Training and building human resources for achieving all round excellence.

* Monitoring cost, quality and delivery criteria at the highest level.

* Adopting quality is dealing with internal & external customer.

ACHIEVEMENTS

ISO-9002 CERTIFICATION:-

ISO (International org. of standard) 9002 is a model quality assure in production & installation. It is application to the organization, who produce and standard Product/services. These are no designs
involved as the designs are either frozen std. Designer of the company or provide by the customer for marketing.

ISO 9002 will main tation & progressively improve its globally accepted standardized quality management system. It is the 1st fertilizer area by to achieve ISO 9002 certificate.

2) TQM CERTIFICATE: -

Company has how achieved total quality management certificate for the quality of production.
REFERENCES:-

1) IGFL was incorporated on 28th October, 1983 to set up the facilities for manufacturing of Ammonia and Urea at Jagdishpur Industrial Area in Sultanpur District of Uttar Pradesh.

2) The company was promoted by M/s. Pradeshiya Industrial and Investment Corporation of UP (PICUP) – A UP Government Financial Institution, along with M/s. Gulf Consolidated Co. for services and Industries (GSCI) of Bahrain, with 11% equity participation by PICUP and 40% that of GSCI. Due to financial crunch with GSCI. Aditya Birla Group of Companies of India – Grasim, Hindalco and Indian Rayon – stepped into this project during April, 1986 and brought 29% of equity leaving only 11% to GSCI.

3) The company belongs to a Multinational Group – ADITYA BIRLA GROUP- having diverse interests in India as well as in other countries viz. Indonesia, Malaysia, Thailand, Philippines, Egypt etc.

4) The construction of the project was started during 1985, the Mechanical completion achieved within 36 months (3months ahead of schedule). And the commercial production of Urea started from November 1988.

5) IGFL is one of the largest gas based Ammonia-Urea complex in the country and the largest in the Private Sector. It has a capacity to produce 864,000 tonnes per annum of Urea-a Nitrogenous Fertilizer.

6) IGFL has a marketing network consisting of one Sales Office, two Zonal Offices and 12 Area Offices spread over to its marketing
territory of U.P., Bihar, W.B., Punjab and Haryana. The Marketing Head Office of the company is located at Lucknow.

7) The company markets its Urea "SHAKTIMAN PLUS BRAND to farmers through a network of over 300 wholesalers backed by more than 2500 accredited retailers.