



CICB-Chemicon Pvt. Ltd.

*For Your Total Engineering Solutions*



## Introduction



CICB-Chemicon Private Limited (CICB) is a well-established Company providing Engineering Services & Products to its customers for over 3 decades. The Company provides total engineering solutions to its customers which include basic engineering, detailed engineering, project management, supply of equipment, erection, commissioning and after-market services. The product range includes supply of individual products to packaging to complete turnkey plants.

Headquartered in Bangalore, the Company has branch offices all over India. The Company owns a full fledged manufacturing facility and has had the experience of working with all leading consultants and third party inspection agencies.

CICB have been in the business of providing "Compressed Air Solutions" for more than 3 decades through their association with FS-Elliott Co.LLC,USA.

Over these years, the association has developed into one of Business Associates, with CICB developing capabilities to undertake "Within Battery Limit" lumpsum turnkey contracts.



CICB areas of expertise are:

- Engineering
- Project Management
- Fabrication
- Packaging
- Turnkey Contracts
- After Market Services

## Quality

In its quest to render products & services of the best quality to customers, the Company is committed to the highest standards, in the systems followed, products manufactured or the services rendered.



ISO 9001:2000



NB Registration



ASME 'U' STAMP



IBR CERTIFICATE

## Experience

### MATERIALS OF CONSTRUCTION

- Carbon Steel
- Stainless Steel
- Admiralty Brass
- Naval Brass
- Monel
- Super Duplex Stainless Steel
- Cupro-Nickel
- Clad Material-SA266 with Cu-Ni
- Clad Material-SA516 with SS410
- Alloy 20 - SS
- Alluminium Bronze

### ENGINEERING CODES & STANDARDS

- Codes : ASME, BS, IBR, IS
- Standards : API, HEI, TEMA, NEMA

### CONSULTANTS

- Avant Garde Engineers & Consultants (P) Ltd.
- Chemtex India Ltd.
- Engineers India Ltd.
- M.N. Dastur & Co.
- Jacobs H&G (P) Ltd.
- Kvaerner Powergas Ltd.
- Projects & Development India Ltd.
- TATA Consulting Engineers
- Toyo Engineering India Ltd.
- Toyo Engineering Corp., Japan
- UHDE India Ltd.

### THIRD PARTY INSPECTION AGENCIES

- Bureau Veritas Inspection Services
- Engineers India Ltd.
- Llyods Register for Industrial Services
- Projects & Development (India) Ltd.
- S.G.S India Ltd.
- Velosi International

### APPROVALS FROM GOVERNMENT AGENCIES

- The Chief Inspector Of Boilers (IBR)
- The Department of Explosives (CCOE)

## Affiliations



Elliott Turbomachinery Co., USA



FS-Elliott Co., USA



Henderson Engineering Co., USA



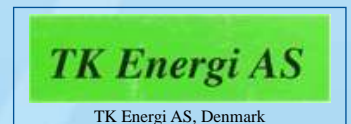
Fu Sheng Industrial Co., Ltd.



Dresser Rand Inc, USA



Harbin Turbine Equipment Co. Ltd.



TK Energi AS, Denmark



EQTEC Iberia, SL, Spain

## Safety



SAFETY POLICY

# Products

The product range includes supply of individual equipment, packaging & turnkey plants.



## TURBOMACHINERY

- Centrifugal Air & Gas Compressors
- Single & Multi Stage Steam Turbines
- Compressed Air Blowers
- Screw & Reciprocating Compressors

## FABRICATED EQUIPMENT

- Pressure / Process Vessels
- Heat Exchangers
- Steam Surface Condensers
- Structural Skids
- Fabricated Baseplates
- Specialised Piping



## PACKAGING

- Centrifugal Air Compressors
- Lube Oil Systems
- CO<sub>2</sub> Storage Systems
- Compressed Air Dryer Packages
- Customized Packages

## TURNKEY SOLUTIONS

The Company has since its inception, endeavored to add value to its services & provide its Customers "TOTAL ENGINEERING SOLUTIONS".

Over the years, the Company has developed expertise for turnkey execution in areas such as :

- CO<sub>2</sub> Manufacturing Plants
- Biomass Gasification Plants
- Compressed Air Systems
- Steam Turbine Packages for Drive Applications.
- Steam Turbine Generator sets for Power Generation
- Total Energy Solutions for the Palm Oil Industry

The Company has the experience of having undertaken various turnkey projects in India & Overseas.



# Products

## PACKAGING

CICB has developed the necessary infrastructure & capability to undertake packaging of Centrifugal Air Compressors. The typical work flow includes:

- Working out a scope matrix defining scope of work between FS-Elliott & CICB
- Specific components such as the Air-End, Intercoolers, Oil coolers, Control Panel, Interconnecting Piping, etc. are sourced from FS-Elliott, USA.
- Fabrication of base frame housing the intercooler shell, lube oil reservoir, etc by CICB.
- Fabrication of lube oil piping & undertaking panel tubing and wiring.

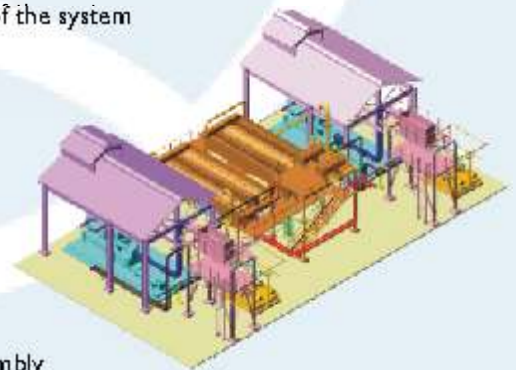


- Assembly of the air end, interconnecting piping, panel, motor, etc.
- Fixing of the coupling and mounting of the intercooler tube bundles & oil coolers.
- Mounting the auxiliary oil pump & oil flushing.
- Surface preparation & painting of the base frame.
- Painting of the intercooler shells with phenolic resin paints.
- Packing & Despatch

## TURNKEY SOLUTIONS

CICB provides Turnkey Solutions to its Customers for their Compressed Air Needs. This includes conceptualization to commissioning of the entire system. The approach to execution:

- Study customer requirement and suggest the optimum size of compressors.
- Obtain plot plan, layout drawing & purchaser battery limit end connection from client
- Freeze process design basis including instrumentation and control philosophy
- Develop the PFD & P&ID to ascertain the scope of work.
- Work out the overall layout drawing for the package
- Design independent equipment such as Structural Skid, Pressure Vessels & Heat Exchangers etc.
- Obtain the G.A. Drawings / Dimensional Drawings for bought out components.
- Draft the General Arrangement Drawing with individual equipment and bought out component details.
- Design review to ascertain constructability, operability & maintainability of the system with inputs from process, manufacturing & service departments
- Design review to ascertain transportability
- Develop fabrication drawings for individual equipment
- Develop specification sheets for the bought out components
- Develop piping isometrics & bill of quantities
- Develop electrical single line diagrams and control panel specifications
- Fabrication of individual equipment to drawing specifications
- Procurement of bought out components including inspections
- Assembly of equipment and components onto the skid
- In-situ assembly of pipelines - disassembly, fabrication, testing and re-assembly
- Unitisation of the system - installation of rotating equipment, couplings, etc. and preliminary alignment.



- Functional test of the complete package
- Final cleaning and purging of the system
- Final painting, packing and despatch preparation
- Assistance to customers for HAZOP, DCS Interconnectivity, etc
- Assistance to customers for installation of the equipment at site.
- Commissioning of the entire system & handover to the customer
- Customer personnel training & familiarization.

# Services

## AFTER-MARKET SUPPORT

The company renders after market support, which includes

- Installation and commissioning of new equipment supplied ( turbines, compressors, blowers, gearboxes, alternators / motors, dryers, CO<sub>2</sub> bulk storage systems, lube oil systems, piping etc.)
- Planned maintenance of the above machinery including Annual Maintenance Contracts.
- Breakdown maintenance of the above machinery.
- Re- rates and modification to existing machinery.
- Relocation of machines from existing location to a new location.
- Spare parts Management



# Clients

We boast of a clientele that encompasses a wide array of industries, some of whom are:

REFINERY SECTOR	CHEMICAL SECTOR	FERTILIZER SECTOR	PETROCHEMICAL SECTOR
Bharat Petroleum Corp. Ltd. Chennai Petroleum Corp. Ltd. Essar Oil Ltd. Hindustan Petroleum Corp. Ltd. Indian Oil Corp. Ltd. Mangalore Refinery & Petrochem. Ltd. Oil & Natural Gas Corp. Ltd. Reliance Petroleum Ltd.	Albright Wilson Ltd. Hindustan Antibiotics Ltd. Hindustan Lever Ltd. Hindustan Organic Chems. Ltd. Herdillia Chemicals Ltd. Jayashree Chemicals Ltd. . Sadhana Nitrochem Ltd.	Chambal Fertilizers Coromandel Fertilizers Ltd. Indian Farmers Fert. & Chems. Orgn. Indogulf Fertilizer & Chems. Corp. Madras Fertilisers Ltd. Mangalore Chemicals & Fert. Ltd. Nagarjuna Fert. & Chemicals Ltd. Rashtriya Chemicals & Fertilizers Zuari Agro-Chemicals Ltd.	Haldia Petrochemicals Ltd. Reliance Industries Ltd. <b>INTERNATIONAL</b> Qatar Petroleum, Qatar Dresser Rand Inc., USA & Brazil Ghana Oil Palm Development Corp. Ghana Takreer (Abu Dhabi National Oil Co.), Abu Dhabi GE Energy / Gustavo Preston, USA FS-Elliott Co. LLC, USA



For further information, please contact :



**CICB-Chemicon Pvt. Ltd.**

# 239, Mahalakshmpuram Layout BANGALORE - 560 086

Tel : +91-80- 23493913, 23491400, 23493473 Fax : +91-80-23496173 Email : [cicbsales@cicb-chemicon.com](mailto:cicbsales@cicb-chemicon.com)

Visit us at [www.cicb-chemicon.com](http://www.cicb-chemicon.com)