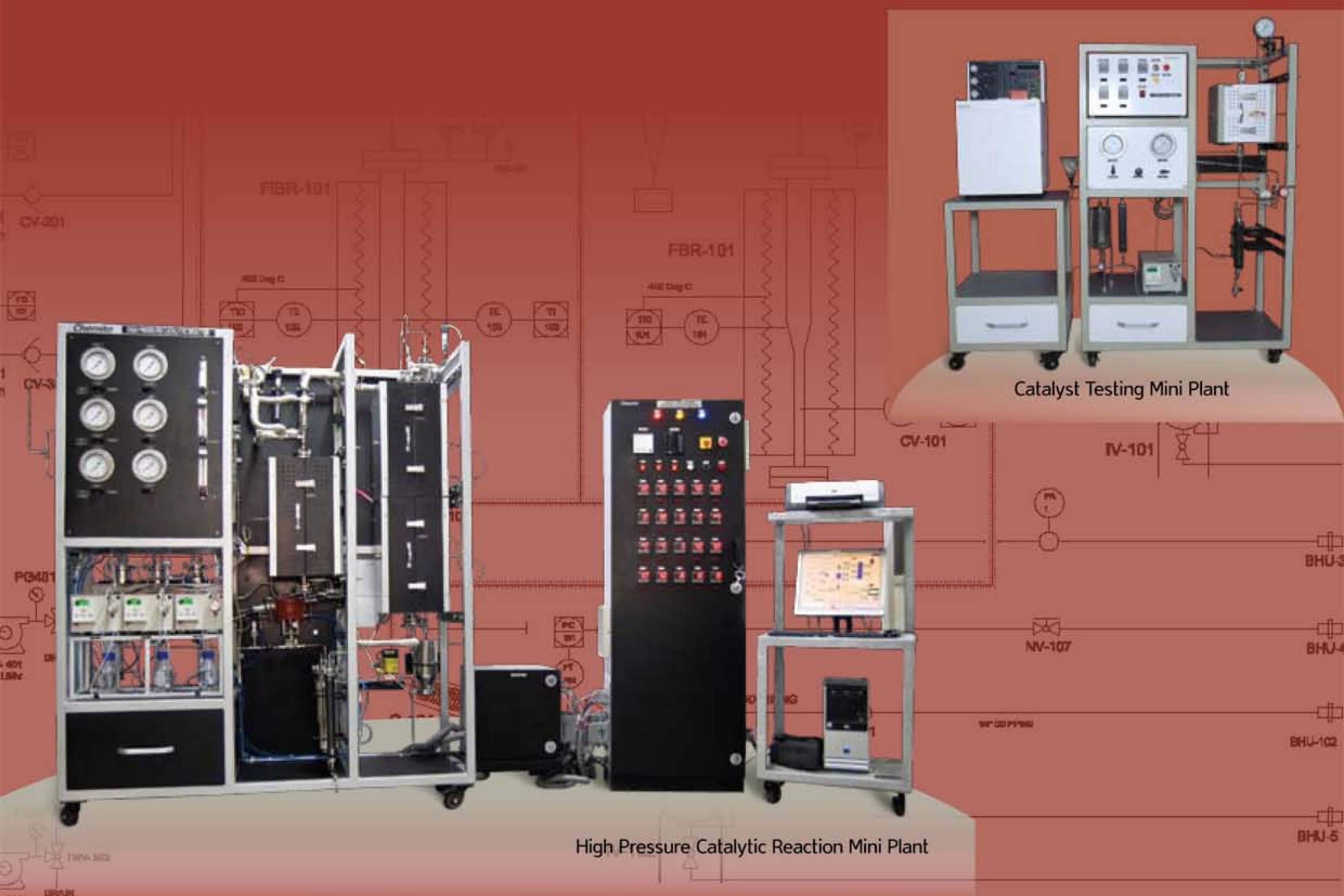




Catalyst Testing Mini Plant

High Pressure Catalytic Reaction Mini Plant

Process Mini & Pilot Plants

Chemito offers total Turnkey Packages of modular constructed Process Mini and Pilot Plants having combinations of varied reaction, heat and mass transfer units with mechanical operations along with all relevant valves, instrumentation, piping, tubing, automation and control.

The concept of 'Total Chemical Engineering Solution System' has evolved as a result of over two decades of experience and commitment to total customer support which has been achieved by identification, constant interaction and understanding the needs of the industry, through:

Basic Engineering

- Ideas into process engineering
- Proper MOC for plant components
- PFD, P&ID's and control philosophy
- Energy, mass balance, utility requirements, equipment sizing and layout

Detailed Engineering

- Detailing with international standards for design and approval
- Drawings for mechanical, electrical, instrumentation, piping, tubing etc.



Catalyst Testing Mini Plant



Fischer Tropsch Synthesis Mini Plant



Adsorption Breakthrough Measurement Mini Plant



Prereformer Mini Plant



Hydrogen Generation Mini Plant

Process Mini & Pilot Plants

Automation & Control

- Microprocessor-based control structure or PLC or DCS
- Central interface for process graphics, animations, recipes, report generations etc.
- Interlock logic

Procurement of Components

- Selection of quality items from globally approved and established suppliers
- Continues addition of quality product in the vendor database

Manufacturing & Testing

- Testing of individual components
- Time-bound quality manufacturing through QAP

Safety Management

- System with all relevant safety interlocks
- Functionality with the proper testing to ensure safety

Assembly and Testing

- Site condition consideration
- Plant construction with references
- Pre-dispatch testing with inerts for rated parameters
- Factory Acceptance Test and Site Acceptance Test

Commissioning, Documentation and Training

- Specialised process & project engineering team
- Installation, commissioning and maintenance manuals of plant and individual components, test reports, design packages, drawing and datasheets etc.
- Elaborate end-user training

Customer Support

- All projects are backed by the efficient, effective and prompt customer support

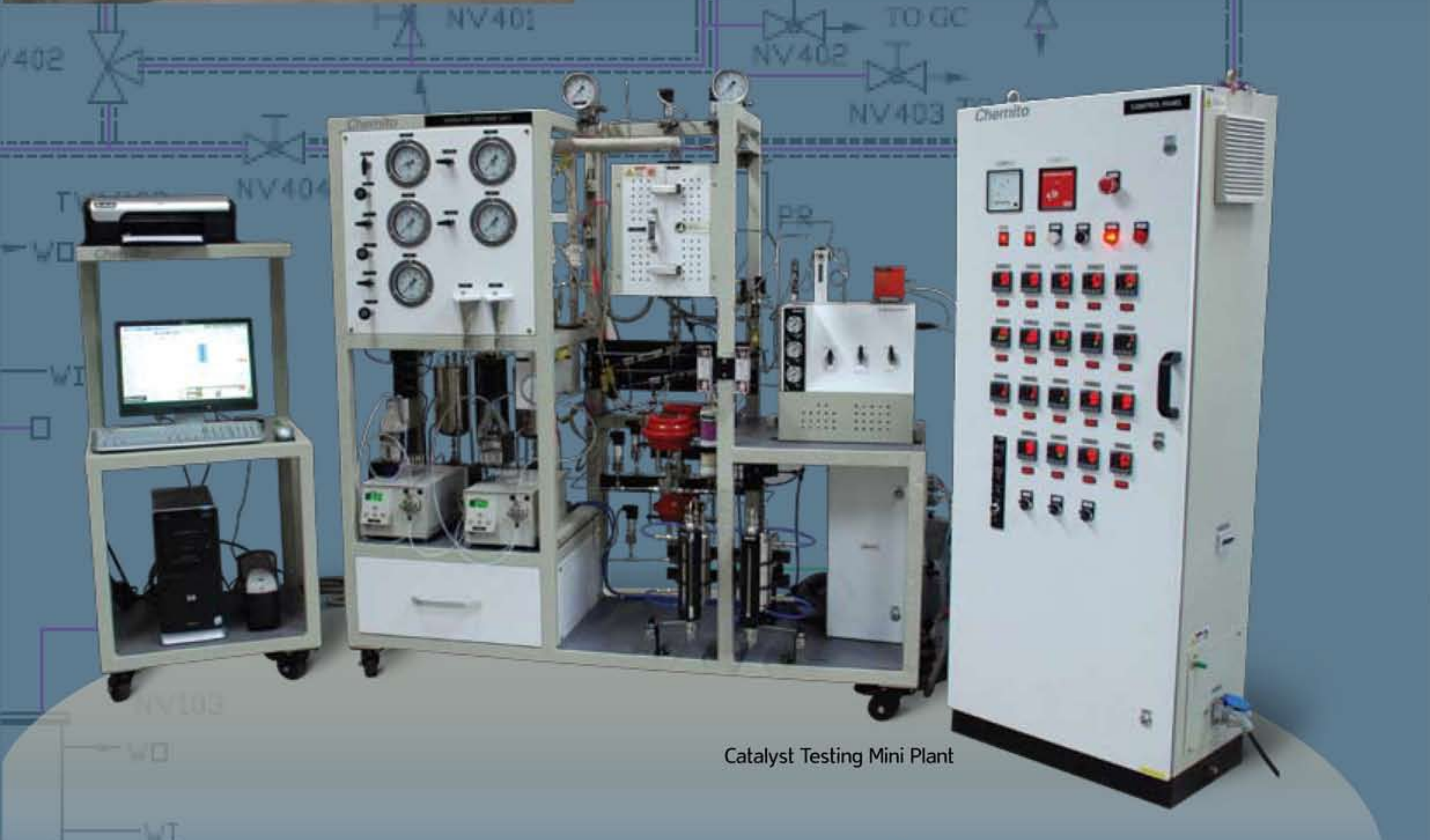
Design Validation and Up-gradation

- Post-sales connect for design validation
- Solutions for upgradation

Chemito



Coal Liquefaction Pilot Plant



Catalyst Testing Mini Plant

Catalyst Evaluation Mini Plant



More than Just the Product

Modular Construction

- Modular construction so as to suit site requirements and provide a low cost of use, with ease of operation and maintenance

Turnkey Solutions

- Optimised combination for process and measurement through control technologies
- Availability of total solutions for the process

Upgradation

- Study of the present system to comply with all current requirements
- Design optimised for future upgradation with utmost convenience

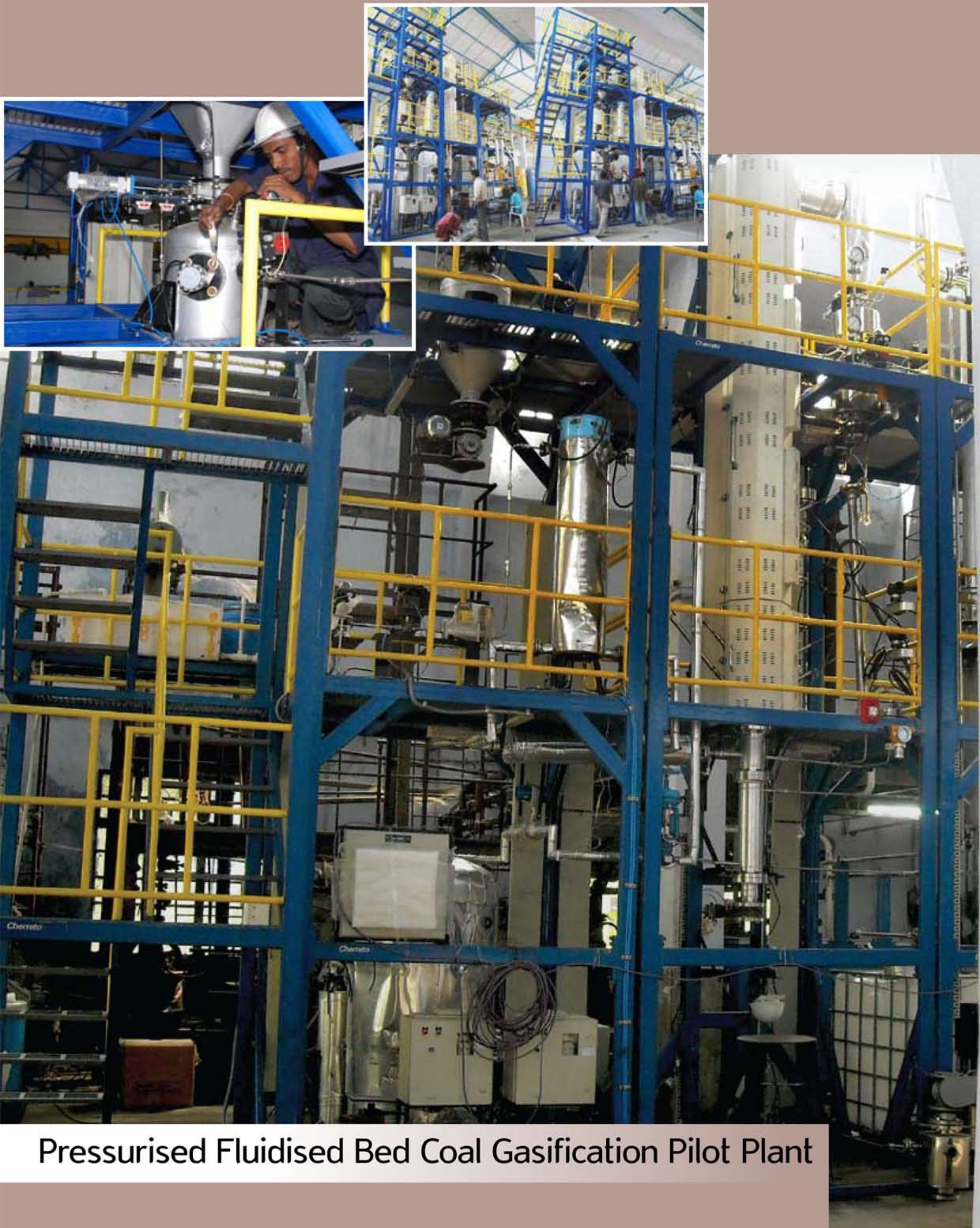
Confidentiality

- Chemito well understands the importance of confidentiality of projects and thus maintains strict discipline in this regard



Catalytic Hydrogenation Pilot Plant





Pressurised Fluidised Bed Coal Gasification Pilot Plant