



Pre-Commissioning & Commissioning

Company Profile



"We are... Problem Solvers"

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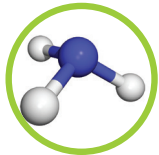
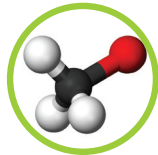
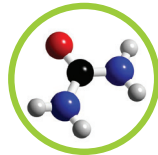
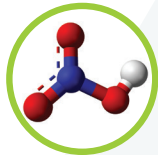
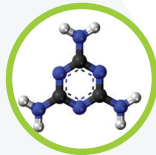
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ONE-STOP-SHOP

- Pre-Commissioning and Commissioning
- Inspection - Non-destructive Testing
- Lube Oil Flushing
- Chemical Cleaning
- Steam Cleaning
- Catalyst Loading
- High Pressure Testing
- Operator Training
- Global Standard Safety Training

Pre-Commissioning and Commissioning within the Oil and Gas Industry

Ammonia

Methanol

Urea

Nitric Acid

Melamine

Liquid Natural Gas

Refinery Operations

From the inception of the Point Lisas Industrial Estates, nationals of Trinidad and Tobago have built up an impressive base of engineering expertise working alongside other international professionals in the development, design, construction, commissioning and operating of the 34+ industrial plants located within the Point Lisas Industrial Estates. Our engineers are recognized globally for their professional engineering skills and commissioning management within the Oil and Gas Industry.

At FarmChem we are well aware of the following factors that continue to drive the growth in the GTL industry and therefore there is a necessary requirement to achieve the following to maximise the returns from existing and established Oil and Gas refineries globally:

- Monetizing of existing stranded gas reserves
- Energy companies keen to gain access to new gas resources
- Market demand for cleaner fuels and new cheaper chemical feedstocks
- Rapid technology development by existing and new players

FarmChem Engineers

• Commissioning Managers	• Electrical Engineers	• Project Managers In Engineering	• Rotating Equipment Engineers
• Commissioning Engineers	• Instrument Engineers	• Chemical Process Engineers	• Structural Engineers
• Electrical and Instrument Designers	• Mechanical Engineers		

The ONE-STOP-SHOP FarmChem Operational Services in Pre-Commissioning and Commissioning

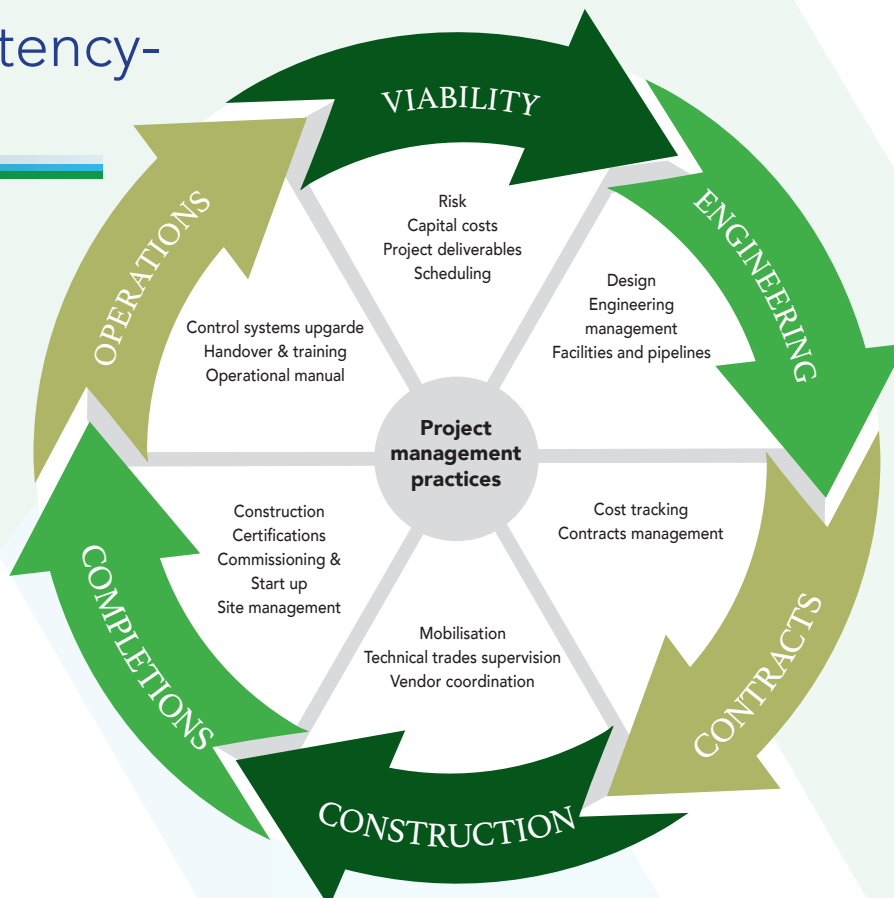
Capabilities	Advantage	Results
• Pre-Commissioning and Commissioning	• Full comprehension of systems, processes and outcomes required	• Managed Project Challenges and Measured Outcomes
• Inspection - Non-destructive Testing	• Essential for constructing and maintaining all types of components	• Increased longevity and Less Down Time
• Lube Oil Flushing	• Efficiency Maintenance Practice	• Extends the Life of Rotating Equipment, Turbines, Compressors and Engines
• Chemical Cleaning	• Circulation Method for the highest efficiency vs. the traditional static method	• The gains are significant due to the constant circulatory movement of solution through the pipelines
• Steam Cleaning	• The removal of scale and construction debris from newly installed lines	• Ensure systems perform functions correctly extending the life of associated equipment
• Catalyst Loading	• Prevent complications by delivering pre-loading and loading information	• Cost Minimisation
• Operator Training	• Converting information into Working Knowledge and Operating Skills	• Knowledgeable and Competently Skilled Process Operators
• Global Standard Safety Training	• All employees must be Informed and Skilled on Plant Safety	• Minimise Accidents, Minimise Down Time, Minimise Costs, Maximise Wellbeing
• High Pressure Testing	• Both On-Shore and Off-Shore	• Flexibility of Service matching the customers requirement



Project Management execution within the Oil and Gas Industry has one core aim throughout any project and that is to ensure the most accurate decisions are made at all times. Define It , Design It, Do It, Deliver It. FarmChem Engineering Management Ltd measures and appraises projects prior to commencement of works, measuring the following SEVEN Phases:

- (1) Front End Engineering Design (FEED)
- (2) Procurement of Long Lead Equipment
- (3) Risk Analysis and Mitigation
- (4) Construction and Fabrication
- (5) Onshore Pre-Commissioning
- (6) Logistics of Transportation and Installation
- (7) Commissioning and Certification of Operation

Competency-Wheel





Ian Farmer, Managing Director has developed and honed his engineering skills and management practices in Pre-Commissioning and Commissioning across Oil and Gas Industry over the past 40 years within challenging environments in various countries such as:

- Russia
- Saudi Arabia
- United States Of America
- Nigeria
- China
- Trinidad and Tobago
- Algeria
- Iraq
- Venezuela

FarmChem's Engineering and management foundation of surplus experience and diligent work practices ensure our teams complete all projects at the highest calibre and in the most

efficient manner making FarmChem a One-Stop-Shop in Pre-Commissioning and Commissioning.

Present Activities and Current Projects:

Farmchem Engineering Management Ltd is Pre-Commissioning and Commissioning a GTL Plant for and on behalf of, 'Niquan Energy Trinidad Ltd'.

KBR IHR International

Commissioning Manager

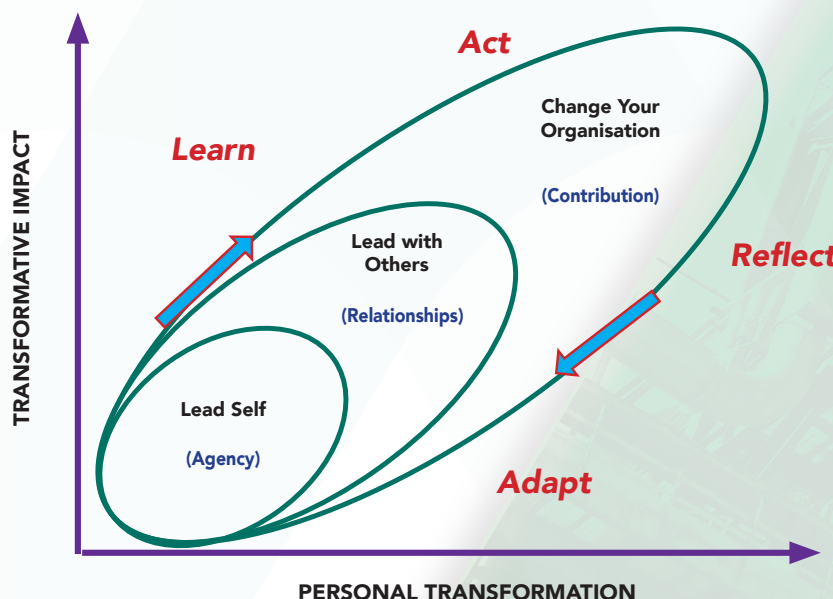
- SAFCO3 Ammonia Purifier Plant, Al Jubail, Saudi Arabia
- YARA BSF, KAAP Ammonia Purifier Plant, Texas
- Dyno Nobel, KAAP Ammonia Purifier Plant, Louisiana
- PEQUIVEN, KAAP Ammonia Purifier, Venezuela

Industrial Plant Services Ltd. (IPSL) in Trinidad & Tobago

Operations Manager, AUM Complex

The AUM Complex has eleven (11) ammonia plants that include two ammonia complexes on the Point Lisas Industrial Estate with a total annual capacity of 5.2 million metric tonnes (MT):

- KAAP Ammonia 1850 MTPD- KBR
- Urea 2100 MTPD-TOYO
- Nitric Acid 1500 MTPD- UHDE
- UAN 4300 MPTD
- Melamine 1&290 MPTD (each)- Euro-Technica



Cyclical Training Model Leadership

