

[Pharmaceuticals]

Astrix Laboratories Ltd (India)

Polmon, an Alliance partner provides PlantStruxure solution that improves efficiency, quality and safety



PROJECT AT A GLANCE

Project Type
Pharmaceutical supplier and manufacturing

Location
India

Applications
Integrated control system

System Components

Software

- SCADA
- Historian
- MDT change management
- UAG

CUSTOMER BENEFITS

- Simplified process reducing operator load
- Improved quality through accurate process control
- Easier to use auditing system
- Improved safety



Astrix Laboratories Limited, based in Hyderabad, India, is one of the world's largest manufacturers and suppliers of active pharmaceutical ingredients (APIs). It is a subsidiary of Mylan Inc. (NASDAQ: MYL), a leading generics and specialty pharmaceutical company, providing products to customers in more than 150 companies and territories.

Make the most of your energy



The Challenge

Astrix wanted to address the challenges faced by the Pharmaceutical industry, namely:

- > Increased competition and cost pressure
- > Emerging markets are growing fast, while matured markets are slowing
- > Demanding cGMP practices and regulatory pressures
- > Reducing manufacturing time to maximize profitability
- > Reducing time to market to maximize revenue
- > Maintaining regulatory compliance and eliminating out-of-compliance incidents

In order to meet these challenges, Astrix recognized the need for increased automation in their processes:

- > To simplify the process
- > Reduce operator load without much change in conventional practices
- > Improve quality
- > Accurate control of process parameter to maintain quality, ie temperature
- > Improve safety in terms of process, environment
- > Improve compliance
 - » Reviewing electronic documents simpler
 - » Simplify the auditing system

The Solution

Polmon, an Alliance partner designed a solution based on Schneider Electric's PlantStruxure architecture, including:

Software

- > SCADA: Server 15,000 tags; Runtime clients 1,500 tags
- > Historian: 500 tags & 1500 tags
- > UAG
- > MDT change management

Hardware

- > Quantum HSBY - 2
- > Digital Inputs – 1800
- > Digital outputs – 1500
- > Analog inputs – 200
- > Analog outputs – 100
- > Control loops – 100
- > Advantys

The Benefits

The PlantStruxure-based solution provided Astrix with the benefits they were seeking. As a result, they experience:

- > Simplified process
 - » User-friendly system
 - » Reduced operator load
 - » Minimal change to conventional practices
- > Improved quality
 - » Accurate control of process parameter to maintain quality, eg: temperature, pH, pressure
- > Improved safety
 - » Process safety
 - » Environmental safety
- > Improved compliance
 - » Reviewing electronic documents simpler
 - » Simplified auditing system
- > Improved batch accuracy; reduced batch failure due to parameter deviation
- > Process parameter control as defined in BPR
- > Ensures process safety
- > Stable process maintenance during the batch period
- > Nullifies utility cross-contamination and minimizes corrosion etc.
- > Greatly reduces manual intervention
- > Decreases the batch time and achieves the desired quality mass
- > Manages operational costs
- > Reactor dedicated annunciations (visual)
- > Recognition of deviations at early stage
- > Immediate operator attention on parameter deviation
- > Achieving regulatory issues
- > Meeting 21 CFR Part 11 compliance
- > MIS reports like deviations, equipment log

About Polmon Instruments

Polmon Instruments is an expert in "Concept to Commissioning," in Automation with domain expertise in the Pharma industry. Established in 1992, Polmon offers a broad range of measurement & control Solutions and process automation solutions to the Life Sciences industry.

Polmon strengths:

- > In-house design & development
- > Vast process knowledge
- > FAT/SIMULATION lab
- > Efficient operational & execution team
- > Quality systems as per ISO 9001:2008
- > Validation & documentation as per guidelines of GAMP 5

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**For more information contact your local
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