

Emerson's PlantWeb® Architecture with FOUNDATION fieldbus™ Technology Helps Biocon to Reduce Expansion Costs and Maintenance Time



RESULTS

- Reduction of installation and commissioning costs for the additional field instruments by 82%
- Reduction in the plant expansion project schedule by 9 days
- Savings in maintenance time by 33 mandays
- Maximum uptime of the plant



APPLICATION

Fermentation Application in Biocon Park.

CUSTOMER

Biocon Limited, Bangalore, India.
Biocon is a fully integrated biopharmaceutical company in India focused on biopharmaceuticals, custom research, clinical research and speciality enzymes.

CHALLENGE

Biocon Limited had to install two storage vessels in the Fermentation Block with a tight budget and project schedule. The target was to reduce the maintenance time and maximize the uptime of the plant.

“The predictive intelligence of the FOUNDATION fieldbus devices has helped us to reduce the maintenance time considerably, giving maximum plant uptime. We believe that we have indeed gained significant savings by adopting the PlantWeb digital technology architecture.”

Shreehas Tambe
General Manager, Projects & Engineering,
Biocon Limited

For more information:
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SOLUTION

Biocon Limited chose Emerson's PlantWeb digital architecture with FOUNDATION fieldbus technology to gain the full benefits of latest technologies, including intelligent field devices and asset management software. The project included:

- DeltaV™ process automation system
- Rosemount® pressure and temperature transmitters, and vortex and coriolis flowmeters
- pH, conductivity, dissolved oxygen analyzers
- Fisher® valves with FOUNDATION fieldbus Digital Valve Controllers (DVCs)
- AMS Suite™ software

In the Fermentation Block, Biocon Limited installed two new storage vessels each of 90 kl capacity. It included instruments such as level transmitters, pressure and flow transmitters. Since these are FOUNDATION fieldbus instruments, Biocon had connected them with the existing fieldbus junction box which was commissioned during the initial project. As a result, quantity of cable was reduced, cable laying and commissioning of the devices were done much faster giving them an overall 82% savings compared to conventional instrumentation. This entire expansion project was completed 9 days ahead of the schedule.



The extensive diagnostic capability of the FOUNDATION fieldbus devices coupled with AMS software has provided considerable maintenance savings for Biocon Limited. The engineers are now able to remotely diagnose the device issues from the control room. They are then able to go to the field with the required spares and do the maintenance much faster. Typically, Biocon Limited has been able to realize 33 mandays maintenance savings time over a period of six months. Such timely actions have also helped to avert major loss of productivity.

RESOURCES

Customer Proven – Pharmaceutical

http://plantweb.emersonprocess.com/Customer/Pharmaceutical_index.asp

Industries – Life Sciences

<http://www.emersonprocess.com/lifesciences/>

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