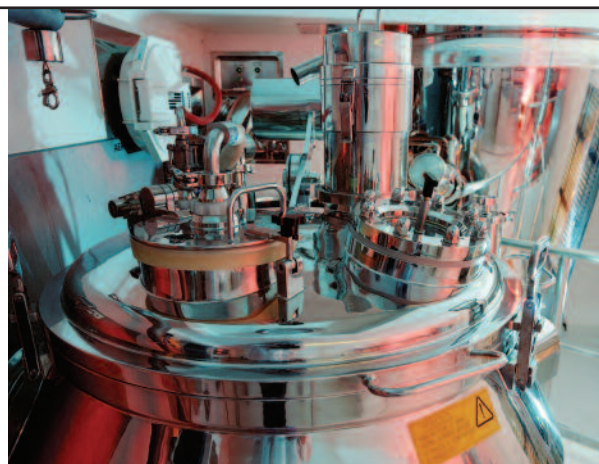


# DSM Anti-Infectives India Limited reaps benefits using Emerson's PlantWeb® Architecture with FOUNDATION fieldbus Technology



## RESULTS

- Reduction in start up time by 10 days
- 50% saving in installation and loop check time
- Reduction in control room size by 25%
- Easier and Consistent Engineering using Digital Bus Technology
- Maximum uptime of the plant



## APPLICATION

Production of branded bulk drugs (APIs) for Purimox®.

## CUSTOMER

DSM Anti-Infectives India Limited is a Dutch company and is a leading manufacturer of Penicillin based Drug intermediates and Active Pharmaceutical Ingredients (APIs). DSM Anti-Infectives India Limited started of as Max – India Limited in 1984. Later it was acquired by DSM of The Netherlands. The Indian facility for Purimox® supplies bulk drugs to the India, Asia-Pacific, West Asia and African regions.

## CHALLENGE

DSM Anti-Infectives set up the Lotus Plant to produce Purimox® an antibiotic with higher purity as compared to chemical Amoxicillin. The product quality was very important as the products would be sold in India as well as exported to other countries in the world. The project was faced with a very tight schedule to make the product commercially available.

***“DeltaV System’s digital busses interfacing capability helped us to make best use of both FOUNDATION fieldbus technology for process control and Profibus DP technology for digital I/Os integration for devices such as VFDs and Siemens S7 PLCs. FOUNDATION fieldbus technology definitely reduced the installation and start up time.”***

**Ramesh Walia**  
Team Leader – Instrument  
DSM Anti-Infectives India Limited

For more information:  
[www.AP.EmersonProcess.com/PlantWeb](http://www.AP.EmersonProcess.com/PlantWeb)  
[Enquiries@AP.EmersonProcess.com](mailto:Enquiries@AP.EmersonProcess.com)

### SOLUTION

DSM Anti-Infectives India 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 system uses a combination of FOUNDATION Fieldbus, Profibus DP and HART instruments resulting in easier and consistent engineering methodology. The project included:

- DeltaV™ process automation system
- Rosemount® pressure, Radar level and temperature transmitters, magnetic and vortex flowmeters (all FOUNDATION Fieldbus)
- Fisher® valves with FOUNDATION fieldbus Digital valve controllers (DVCs)
- AMS Suite™ software
- Profibus DP interface to the ABB make VFDs and Siemens make S7 PLCs

Faster installation due to less cables & terminations; shorter loop check time resulting from auto detection and easier commissioning of devices enabled the plant to start up 10 days earlier than conventional instrumentation. This translates to 50% saving in installation and loop check time. In addition, the control room size was reduced by 25% as a result of fewer cabinets required.

Due to accurate and better control using PlantWeb/FOUNDATION fieldbus digital architecture, DSM Anti-infectives could produce better quality products.

### RESOURCES

#### Customer Proven – Pharmaceutical

[http://plantweb.emersonprocess.com/Customer/Pharmaceutical\\_index.asp](http://plantweb.emersonprocess.com/Customer/Pharmaceutical_index.asp)

#### Industries – Life Sciences

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

#### Emerson Process Management

##### Asia Pacific Pte Ltd

1 Pandan Crescent

Singapore 128461

T (65) 6777 8211

F (65) 6777 0947

[Enquiries@AP.EmersonProcess.com](mailto:Enquiries@AP.EmersonProcess.com)

[www.AP.EmersonProcess.com](http://www.AP.EmersonProcess.com)

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

PlantWeb, DeltaV, Rosemount, Fisher, FIELDVUE, Micro Motion and AMS Suite are marks of one of the Emerson Process Management group of companies. All other marks are the property of their respective owners.

© 2008 Emerson Process Management Asia Pacific. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co.

Printed in Singapore.



The extensive diagnostic capability of the FOUNDATION fieldbus devices coupled with AMS software has given considerable maintenance savings for DSM Anti-Infectives. 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. Such timely actions have also enabled in avoiding major loss to productivity.

Overall, DSM Anti-infectives has seen huge benefits by using latest digital technologies from Emerson Process Management.