

# Multipurpose GMP Manufacturing Facility



SYNERTEC



## CLIENT

Xepa-Soul Pattinson

## LOCATION

Melaka, Malaysia

## CORE CAPABILITIES

- Project management
- Specialist multidiscipline engineering including process, mechanical, electrical, control, and automation engineering
- 3D modelling
- Commissioning
- Good Manufacturing Practice (GMP) validation and compliance services
- V-model engineering lifecycle analysis
- Construction support

## PROJECT SUMMARY

Xepa is the leading manufacturer of off-patent pharmaceuticals in Malaysia. To cater for increased product demand, Xepa constructed a new multi-purpose pharmaceutical manufacturing facility and associated infrastructure.

## THE CHALLENGE

The project required process engineering and utility design expertise with a focus on lowering operating cost and footprint, while achieving certification for Good Manufacturing Practice (GMP).

## SYNERTEC'S SOLUTION

Synertec was initially contracted to undertake a Front End Engineering Design (FEED) study, which then progressed to detailed design and validation work incorporating:

- Equipment selection including purified water system
- Process flows
- Personnel flows
- Manufacturing facility layouts
- Wall and floor finishes and details
- Environmental control, including heating, ventilation, air conditioning, chilled water, and extraction systems
- Electrical design
- Automation systems

Synertec introduced innovative solutions for manufacturing processes and design layouts, which optimised space usage and decreased operating costs.

Synertec also provided technical overview and support during construction.