

# Kaleswaram Case Study

## Location

Telangana State, India

## Project

Kaleswaram Water Lift and Irrigation

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### Megha Engineering & Infrastructure Limited (MEIL) – significant contract award for Utilities Valves

- Utilities Valves Ltd supply of 22 x DN4000 PN7.5 double eccentric butterfly valves
- 11 x hydraulically actuated (HOPD) with HPU and controls, for pump protection and isolation
- 11 x electrical actuated (EOPD) isolation and regulation valves

Extreme operating conditions beyond design parameters, were encountered during initial start up pump optimisation, with long periods of excessive velocity throttling of UV 4 metre valves at only 20% open, against full pump discharge pressure. UV valve's unique design and robust construction safely handled this high risk demand, without noise, disc flutter or vibration, to facilitate the inaugural site opening on time.

#### Key reasons for selecting Utilities Valves were

- High security product design
- Patent technology seal seat tight shut off
- Lowest head loss disc design
- High flow velocity limits
- Regulation without noise or vibration
- Price justification

#### Contract signing right to left

**Peter Woodward**  
CEO & Technical Director  
Utilities Valves Ltd

**D Ranjit Kumar**  
General Manager  
MEIL

**Bhupender Singh**  
Y CUBE Engineering  
(UV India Agent)



These sizeable valves have unit weights of HOPD 43 tonnes, with rapid closure of 90% in 20 secs and last 10% adjustable < 20 secs. EOPD valves of 36 tonnes, open/close in 180 secs. Bare shaft torques are in the region of 500,000Nm. UV valve design incorporates many high security and patented features, to harness water energy and control of the 11 x 4 metre diameter pipelines.

Detailed technology and commercial discussions between main contractor MEIL Senior Management, Siddhi Consulting and Utilities Valves CEO and Technical Director – Peter Woodward, established the required confidence and trust to award this prestigious \$6.8m contract.

Subsequent project management by Peter Woodward and Ian Christopher, plus UV QAP and production supervision by UV Quality Engineering Director Chris Corp and Operations Director Andy Fishlock, delivered the project faultlessly on time.

UV service engineers alongside UV regional manager Srinivas Pasumarty and UV India Agent Y CUBE, supervised site installation and commissioning. MEIL is the main contractor for this prestigious Kaleswaram water lift and irrigation project in Telangana state, India, who UV are proud to work with.

