

## Integrated approach helps reduce cycle time and weight saving for structure platform design

Customer Case Study – Civil

### Customer

The customer is one of the world's leading suppliers of power generation and energy delivery technologies, the company is a well known diversified group. The division employs ~ 36,000 people, with annual sales above \$19 billion, and provides a broad array of solutions and services worldwide.

### Requirements

- Deliver an integrated solution that requires balance of plant structural elements needed for the commissioning of the core industrial equipment
- Required complete end to end design & detailing of industrial platform structure
- Required adherence to relevant codes and practices
- Delivery of the structural solution needed a tight collaboration and integration with QuEST's team which was supporting core industrial equipment design and detailing

### QuEST approach

- Design developed by leveraging cross-functional teams with expertise in core product engineering (industrial equipment) and civil engineering
- Design validated for interference checks (equipment, piping, ventilation, ducting and structures)

### Results

- 26% lesser turn around time as against the specified project timelines, owing to a tight integrated approach
- 34% weight savings against the customer provided preliminary design, through optimization during the detailed design process

### Impact

- Project completed ahead of schedule because of integrated approach
- Customer able to save substantial steel weight and time
- Customer able to deliver his project well ahead of schedule and within budget

### About QuEST

QuEST is a leading provider of outsourced engineering services and manufacturing. We provide support across the entire product development life cycle from design and modeling through analysis, automation, re-engineering, instrumentation and controls, embedded systems development, prototyping, data documentation, manufacturing support, vendor management, and in-house precision machining. Through our Global Product Development framework leveraging our local presence and global reach, we enable companies in the aerospace, civil structures, industrial products, oil & gas, power generation, and transportation markets to cut product development costs, shorten lead times, extend capacity, and maximize engineering resources. QuEST employs over 1300 people and has delivery centers in India, USA, Japan and Italy, and a footprint in UK, Germany and China.