

End-to-end design and development of riser guiding arm for an offshore oil rig



Global leader in providing solution and supplier of oil field equipment.

First of its kind
with 360-degree rotation

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.



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BUSINESS CHALLENGE

- Drilling riser and rig structure were facing structural damages due to high oceanic waves and other impacts during installation and parking
- The client wanted to design a new equipment to guide the Drilling Riser (30mT) on drill floor during BOP installation and parking to avoid the structural damages

SOLUTION

- ITC Infotech engineering team developed the riser guiding arm from inception to implementation including product roadmap, design, fabrication, testing and transportations
- The developed design was robust and first of its kind in market
- Design automation were implemented during the product design itself to accommodate the various configurations
- Proposed and implemented collision simulation modelling to study about surrounding equipment movement and to set up correct collision avoidance system for damage protection
- Initiated new process of updating Carry Over Work (COW) for future design and development work

RESULTS

- Our capabilities in mechanical and hydraulic system design helped customer to develop riser guiding arm with faster regulatory approvals
- Reduced cost per unit through Should Costing for the bought-out items
- Eliminated collision damages of the equipment