

Introduction

Client: Qatar Petroleum

Industry: Oil & Gas

Location: Qatar

About Client: Qatar Petroleum is a state-owned public corporation established in 1974. It is responsible for all phases of the oil and gas industry in the State of Qatar.

The principal activities of Qatar Petroleum, its subsidiaries and joint ventures are the exploration, production, local and international sale of crude oil, natural gas and gas liquids, refined products, synthetic fuels, petrochemicals, fuel additives, fertilizers, liquefied natural gas (LNG), steel and aluminum.

The Challenge

Qatar Petroleum operates and maintains around 500,000 assets spread across Gas operations, Offshore production, Onshore Dukhan fields and Refinery. It uses SAP R/3 as ERP System from 2003.

Due to modifications and equipment replacements at various plants, a large amount of data in the SAP system did not match with the as-built condition of the plant. As SAP Plant Maintenance Master Data is the backbone for effective maintenance of Qatar Petroleum, the data in SAP has to be up-to-date. Hence, Qatar Petroleum wanted complete validation of the existing Plant Maintenance Master Data and an update of the data to as-is condition. Thus, Qatar Petroleum brought in **Hofincons** to validate and update the maintenance and materials master data.

Projects Executed With Qatar Petroleum

SAP PM Module Master data acquisition & system update for gas operation

2011 - 2014



Updating and upgrading of maintenance data for SAP compliance at Mesaieed

2001-2003



2004-2006

Maintenance data acquisition and optimization for SAP implementation at Refinery, offshore and Dukhan fields

Approach

To address the data management goals, we established an on-site program to be able to carry out:

Field data validation of over 500,000 Equipments

Functional Analysis and Block Diagrams using IDEF0 modeling

As-building of over 1000 P&IDs through site verification

Development of Document Master Data

Criticality analysis for all locations using RCM Turbo software

Population of Functional Location and Equipment Master Data

Review / Creation of over 40,000 Unique BOMs

Risk spare analysis using SOS software

Review, rewrite / create standard texts, maintenance routines

PEG board & Resource leveling

Creation of Shut down Library

SAP data Upload Support

Impact and Advantage

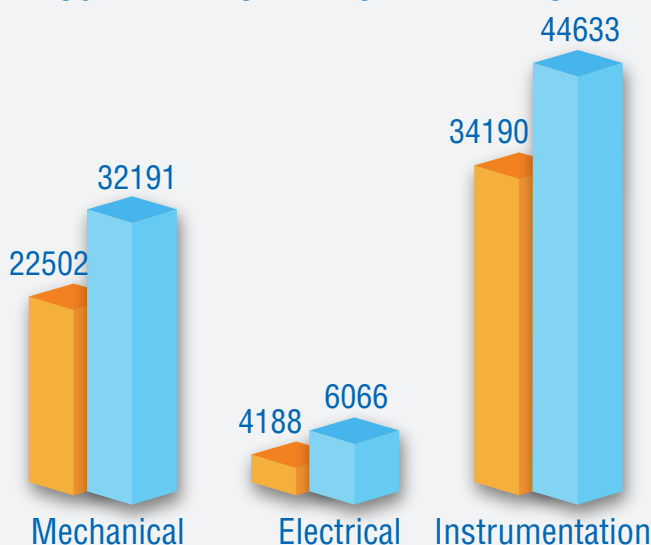
- **Comprehensive asset maintenance data** to ensure operation of asset with increased reliability.
- Updated maintenance data to help **manage unplanned downtimes** more effectively and **sustain planned productivity levels**.
- Adopted best practices of **maintenance management**.
- Efficient and optimum management of resources for **preventive and predictive maintenance** activities
- Effective **planning of spares** for maintenance activities with optimized inventory.
- Updated documents to AS – IS conditions

Metrics Data Of Gas Operations Project In Qatar Petroleum

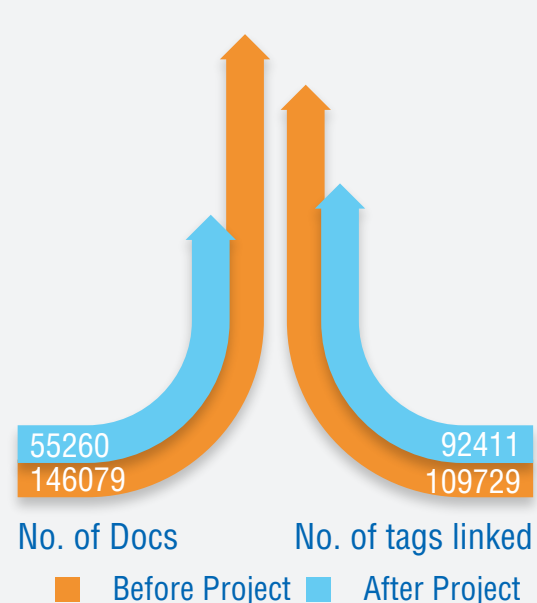
EQUIPMENT DATA



DISCIPLINE WISE BILL OF MATERIALS



UNIQUE DOCUMENTS AND TAGLINKS

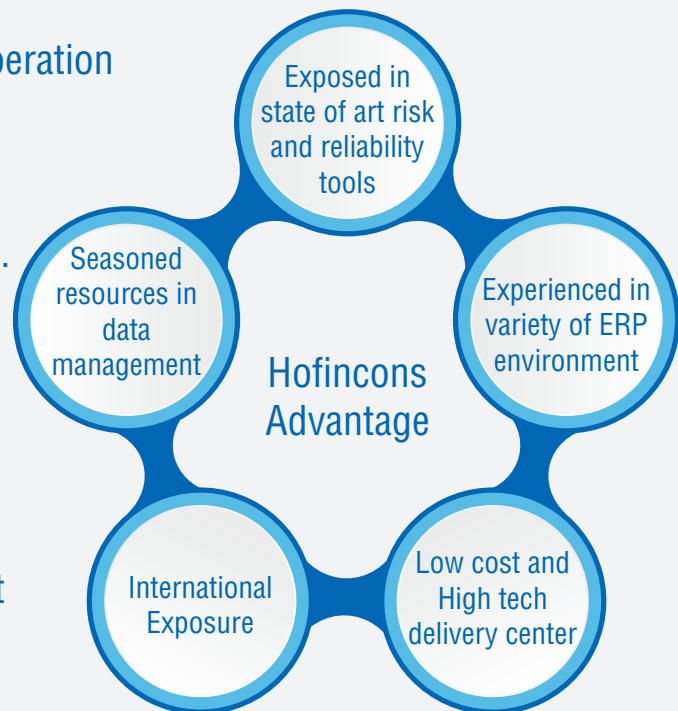


The Hofincons Advantage

As one of the pioneers in the field of integrated asset management services since 1978, our relentless endeavor has been to bring a dependable yet dynamic approach to the table.

We ensure that our strengths translate to advantages for our clients:

- Better and safe practices of operation and maintenance.
- Optimum utilization of assets to achieve planned production.
- Reduction in losses due to breakdowns.
- Higher equipment reliability.
- Enhanced productivity of plant and equipment.
- Overall reduction in maintenance costs.



Hofincons

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