



## EPC solution (Mechanical)

Energy | Water | Environment | Supply Chain

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 [www.laYal-alwatan.com](http://www.laYal-alwatan.com) 



# INTRODUCTION

**Loyal** has the facilities & resources which allows them to scheduled and expedite the turnaround of works and also meet clients needs on shutdowns etc., also we can outage to meet customer requirements and complete all necessary repairs and change-out as required. Our highly qualified team can identify, plan to staff and coordinate the efforts of large numbers of workers and their support equipment while minimizing downtime and costs.

Loyal can provide specialized services for the largest and complicated projects along with resources for maintenance works. The company has a commitment to improving safety, advanced engineering technology, and enhancing the training and education of our technical personnel and with our company's services the customer can be assured of reliance and technical ability.

Loyal is an ISO certified company and has earned various Safety Awards for works in Basrah for time built up over several years with no Lost Time Incident with International IOC's.

Loyal is sizably staffed with a qualified management and technical team and a qualified work-force in various disciplines with full implementation of quality management and safety and environmental policies.

We have successfully completed many projects, maintaining an overall safety rating well below the industry average. This success has allowed us to develop lasting relationships and secure repeat business with our clients.



# SCOPE OF SERVICES

Loyal Company expertise presently covers the following fields:

- ✦ Oil & Gas
- ✦ Power
- ✦ Electromechanical
- ✦ Civil Development Projects
- ✦ Environmental Projects

We specialize and offer services in the fields of:

## **MAINTENANCE OF OIL & GAS FACILITIES**

### **Central Workshop:**

Workshops cater for fabrication and welding for steel structures and C.S & SS pipe work.

Grit blast and specialized painting and inspection works.

All Loyal fabrication and welding works meet the international procedures and standards.

### **SHUTDOWN ACTIVITIES:**

Shutdown Management & Performance Monitoring

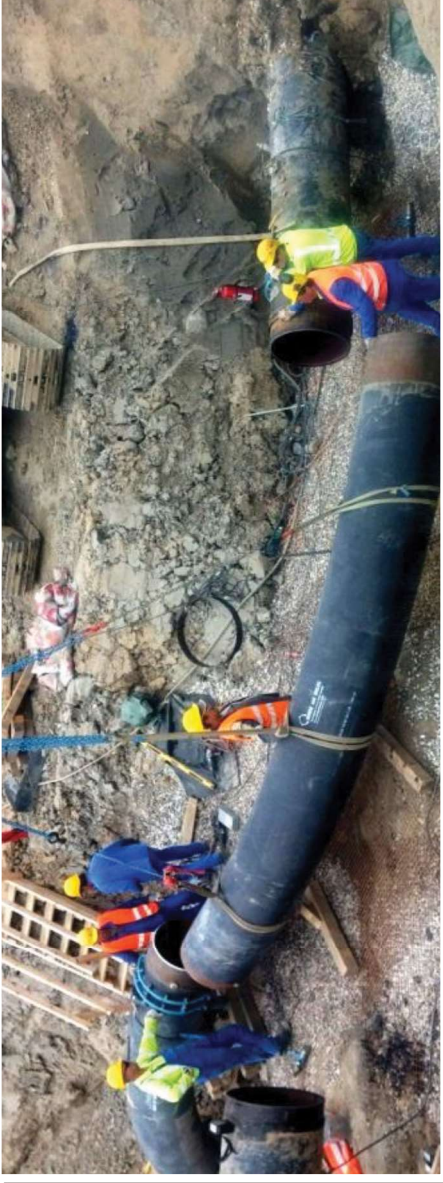
The Shutdown activities including the install of prefabrication and modification of pipe work and changing of damage valves, other services include tank and vessel cleaning and maintenance.



# PIPING WORKS

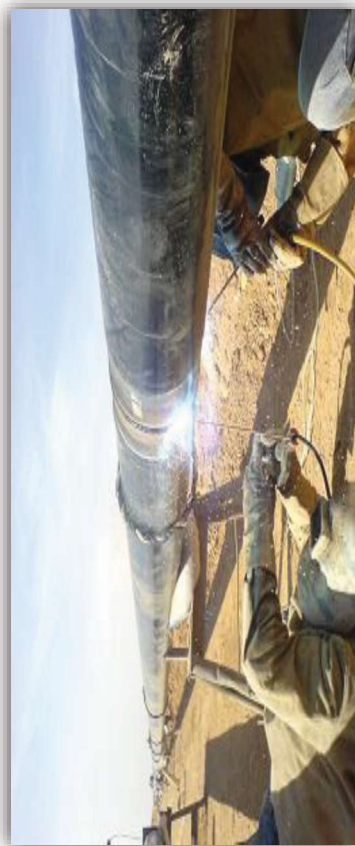
Loyal provides the construction of the following piping and pipeline systems.

- Custom Pipe Fabrication (Shield Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW) & Plasma Cutting)
- Fabrication and Installation of Piping Systems (CS, SS, Alloy Steel).
- Installation of Pipeline.
- Fabrication and Installation of Wellhead and Manifold Systems.
- Compressor and Pump Station Construction
- Meter and Regulator Station Construction
- Launcher and Receiver Fabrication and Installation
- Turn-around Services.
- Hot tapping Services
- Installation of Valves and Other Piping Elements.
- Sandblasting, Painting and Coating Services.
- NDT
- Hydro Testing Services
- Pigging and Cleaning Services.
- Flange Torqueing and Bolt Tensioning.
- Installation of GRP Piping and Fittings
- Installation of HDPE, PE Piping and Fittings.
- Cathodic Protection Services.





# PIPING WORKS-PHOTOS





# NDT WORKS

Loyal is well-equipped to handle nearly any reliability program requirement not matter the complexity or location. Non-destructive tests (NDT) will be executed by specialists according to international and national standards. These specialists are certified in accordance with EN473, ASNT-TC-1A and/or ISO9712.

Loyal is your one stop NDT service provider.

- Ultrasonic Testing (UT)
- Liquid Penetrant Inspection (LPI)
- Magnetic Particle Inspection (MPI)
- Radiography Testing X-ray (RT)
- Positive Material Identification (PMI)





# COATING & PAINTING

The Loyal is a market leader in providing engineering inspection of surface preparation and coatings. Loyal can provide engineering inspection services on a variety of coatings that may include:

- Paint
- Metal Coatings
- Passive Fire Proofing
- Insulation
- Pipe Coating – Internal Lining
- Pipe Coating – Weight Coating
- Tank Linings
- Thermal Spray Aluminium
- Plastic Coatings



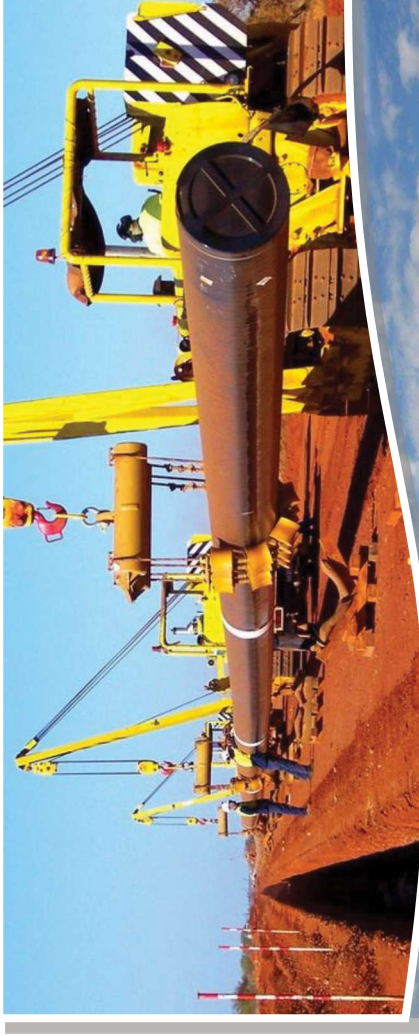


# LOWERING

We've Constructed pipelines for transporting crude oil, natural gas, refined petroleum products, LPG, LNG, NGL, condensates, water, slurries and various chemicals—both in single-phase and multiphase flow. These pipelines have ranged in diameter from 3 inches up to 48 inches .

## Scope of Work:

Custom Pipe Fabrication (Shield Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW) & Plasma Cutting)  
Fabrication and Installation of Piping Systems (CS, SS, Alloy Steel)  
Installation of Pipeline  
Fabrication and Installation of Wellhead and Manifold Systems  
Compressor and Pump Station Construction  
Meter and Regulator Station Construction  
Launcher and Receiver Fabrication and Installation  
Turn-around Services  
Hot tapping Services  
Installation of Valves and Other Piping Elements  
Sandblasting, Painting and Coating Services  
NDT  
Hydro Testing Services  
Pigging and Cleaning Services  
Flange Torqueing and Bolt Tensioning  
Installation of GRP Piping and Fittings  
Installation of HDPE, PE Piping and Fittings  
Cathodic Protection Services







## PIPE LINE CLEANING

Loyal implementation hydrostatic test according to specification and minimum technical requirements, cleaning and measuring the main business line of crude oil, gas, water and related facilities tubes.

Other services include inspection and testing according to the specifications





# TANKS CONSTRUCTION & REHABILITATION

Loyal have an extensive experience for the implementation of tank construction and all accessory and extension of pipe work and fire fitting System according to API 650.

Loyal Isqualified and experienced to execute tank & maintenance rehabilitation work according API 651





# TRANSPORT & INSTALLATION THE HEAVY STATIC EQUIPMENT'S

Layalhas its own plant & equipment for lifting & transporting of heavy loads.

Layal has vast experience of installation and alignment of ( Compressors, Pumps, Columns, Vessels, Fire Heaters, Heat Exchanger tubs, Air Cooling Heat Exchanger, Filters....etc.)

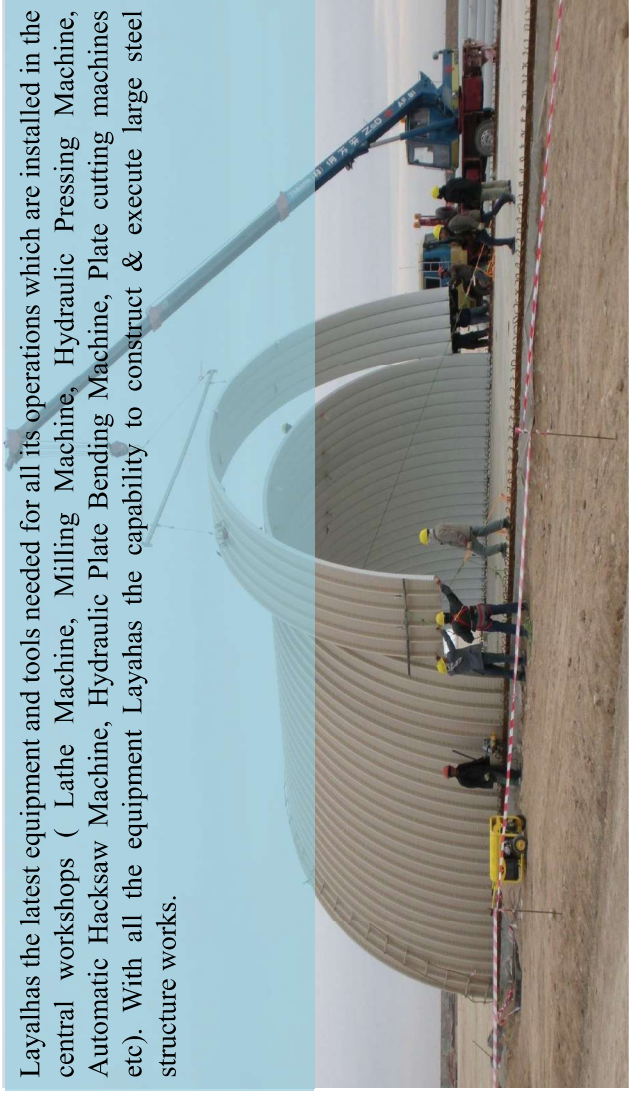
Cathodic Protection Services





# STEEL STRUCTURE ERECTION , FABRICATION & INSTALLATION OF PREFAB BUILDING

Layalhas the latest equipment and tools needed for all its operations which are installed in the central workshops ( Lathe Machine, Milling Machine, Hydraulic Pressing Machine, Automatic Hacksaw Machine, Hydraulic Plate Bending Machine, Plate cutting machines etc). With all the equipment Layalhas the capability to construct & execute large steel structure works.

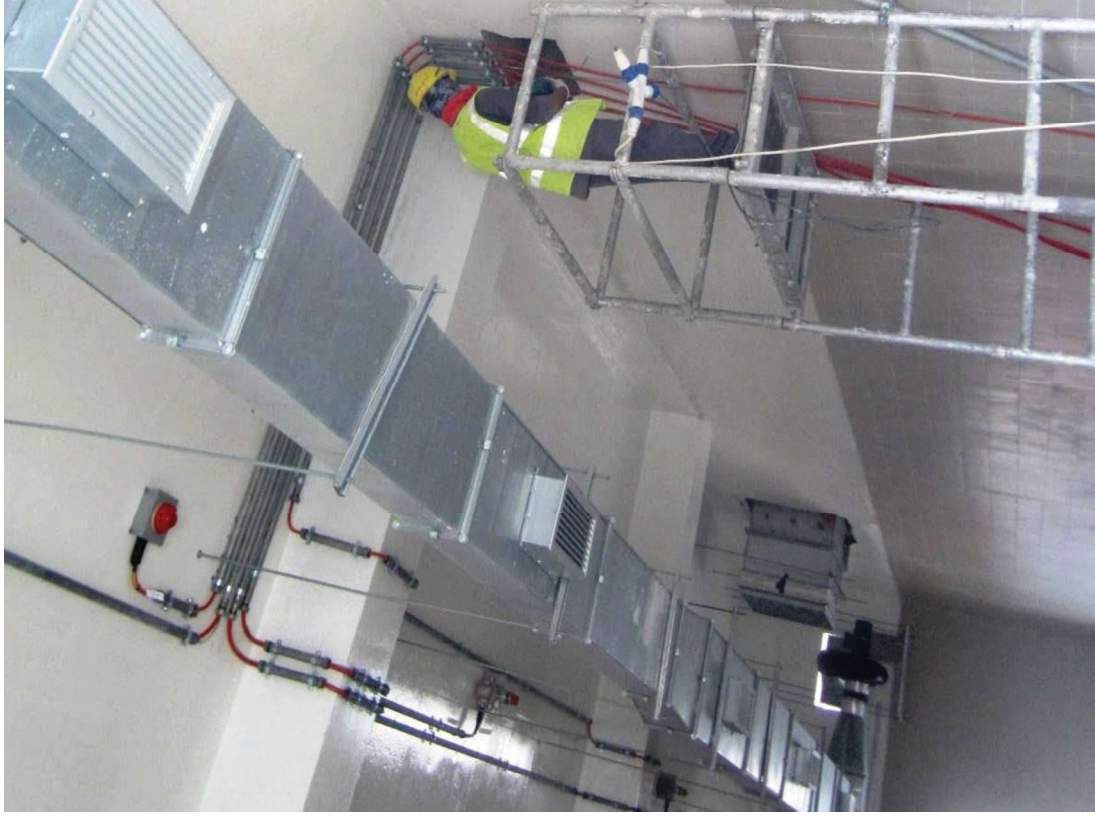




# HVAC INSTALLATION

HVAC (stands for Heating, Ventilation and Air Conditioning) equipment needs a control system to regulate the operation of a heating and/or air conditioning.

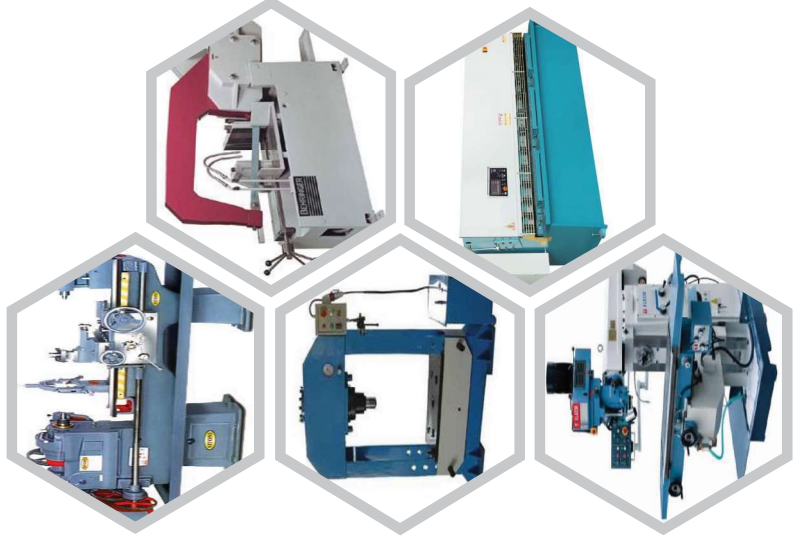
Loyal have a Professional Team for that job.





# WORK SHOPS

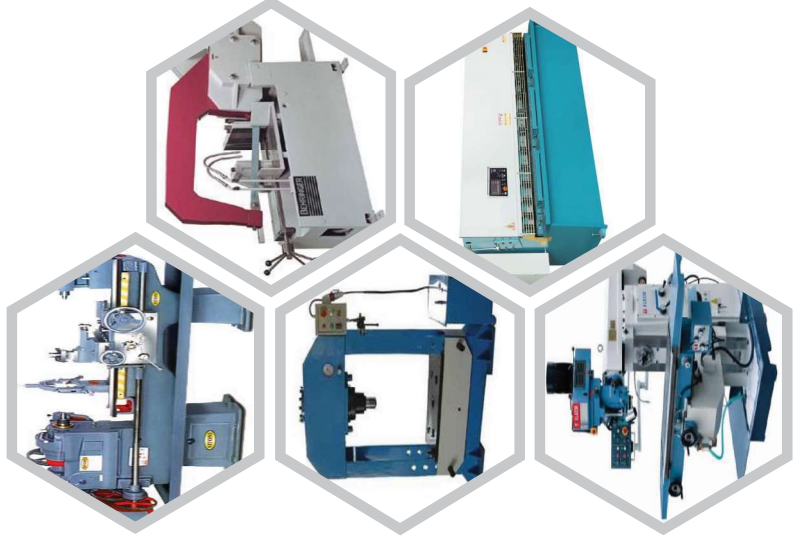
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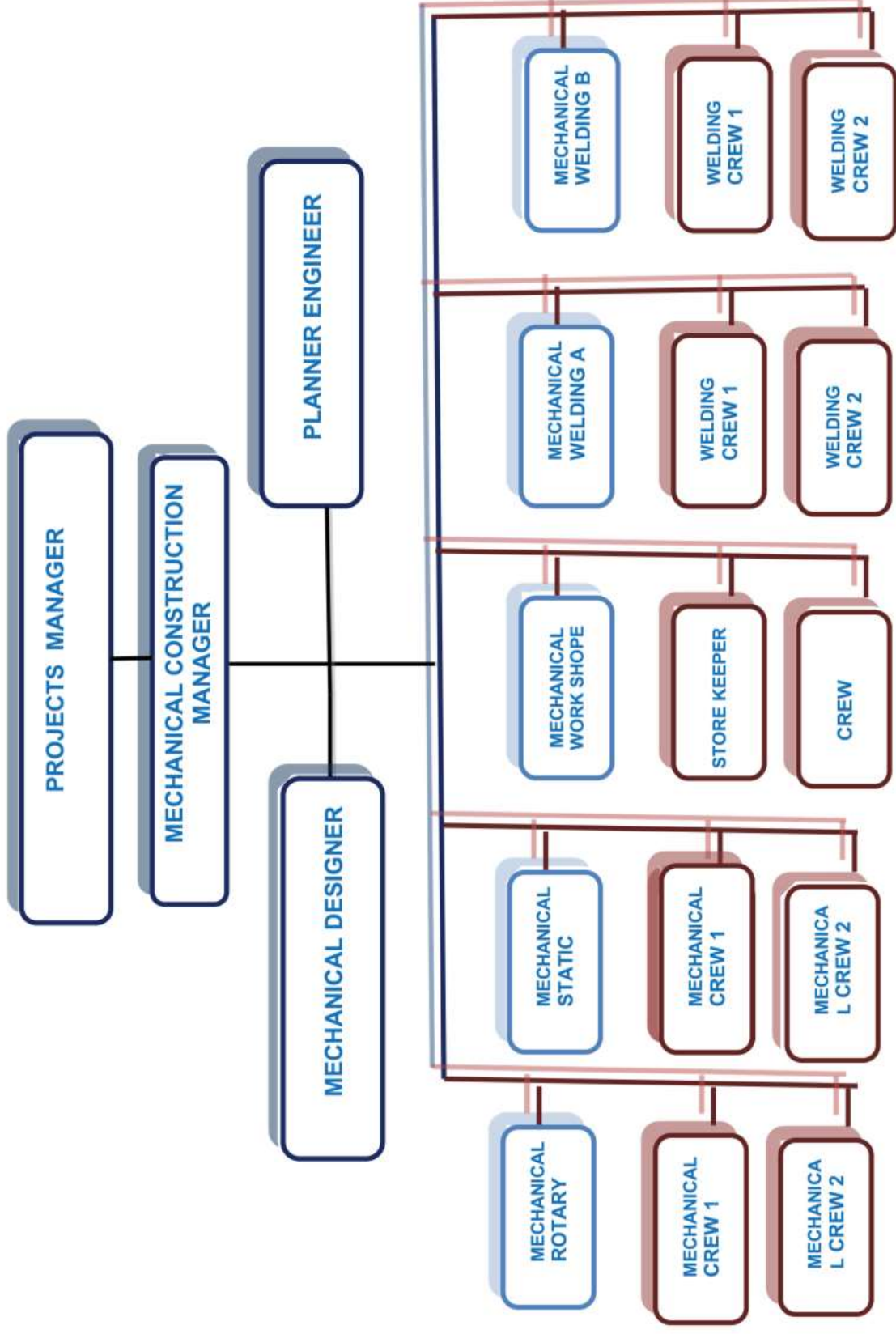
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# ORGANIZATION-MECHANICAL DEPARTEMENT

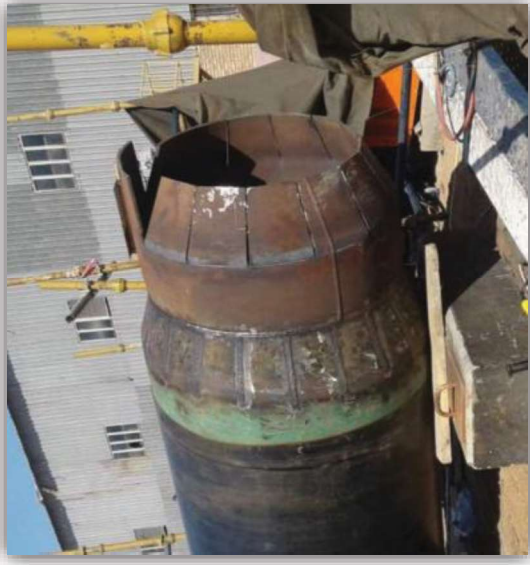


# PAST PROJECTS



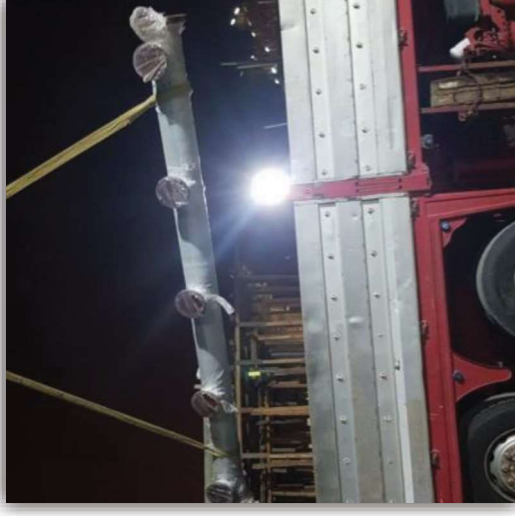
# PAST PROJECTS

Pipeline or from from will head to the manifold in Majnoon oil field with SIPD with Al Yamama And Pipeline or from from will head to the manifold in Rumaila.



# PAST PROJECTS

Deminalization water plant with Enermove water treatment company in SRC transfer RO Water to Demi water in SRC.





# PAST PROJECTS

Tanks (Lining rapper tank, Carbon Steel tanks and class painted tanks) with JLS Austrian company and with CST USA company.



# PAST PROJECTS

Maintenance projects for pumps (Centrifugal pumps and Reciprocating Pump) and air compressor with Flowserve Italian company (vendor) AND Maintenance projects for pumps (Centrifugal pumps and Reciprocating Pump) and air compressor with Nebraska USA company in SRC.





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