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# YOUR TRUSTED PARTNER IN PROJECTS

www.almuzain.com

ZERO HARM, ZERO ACCIDENTS

# **Director's Message**

At ALMUZAIN we believe in growing together. We strongly believe in what drives us is our skilled and dedicated team - "Our Team, Our Success". At ALMUZAIN we all work and grow together, remaining entrenched in family values and working collectively as a family. We firmly believe that our organization is only as great as those who work with us. Investing in talented and top-notch skilled workforce has always been a practice in Almuzain. When people ask us what makes Almuzain execute projects much more efficiently than many other similar companies, our answer has been the same always: "Our customers are the lifeblood of our business, and our people are our best asset".

The plan for this company has never been growth for growth's sake, but to continue designing the fabric of ALMUZAIN with dedicated, enthusiastic and talented people who truly care about each other - our customers and the communities where we live and work.

Our core values, corporate culture and superior service set us apart from many other firms. We foster strong relationships, creative strategy and open communications with our clients and staff. By embracing these practices, we've created long-lasting relationships with companies with whom we do business. As we navigate through challenges, we ensure not to lose sight of our long-term vision – to be the most respected Industrial Services company in the Middle East.

# **CEO's Message**

I feel very privileged to be writing this message as the Chief Executive Officer of ALMUZAIN.

Almuzain strives to develop and maintain an environment that encourages our energetic and diverse workforce to create value for our clients. By applying our vast plant maintenance experience, in-depth industry knowledge and expertise, we help our clients transform their short term and long-term projects into reality much more safely and efficiently than any other company in this field in the Kingdom of Saudi Arabia.

I am proud to be part of such strong team of individual's at Almuzain. Our core values, corporate culture and superior service set us apart from many other firms. Trust, integrity, diligence form our core values, which percolate every department, every relationship we establish within and outside the organisation, and in whatever we engage in.

We take great care to ensure safe and efficient completion of every project. We have extensive experience in delivering projects of any dimension on time even with tough constraints and deadlines.

Our most valued strength of our company are our employees. Thanks to their hard work and diligence. They continue to make ALMUZAIN a successful company in an increasingly competitive market – and just as important, a fun place to work.

I am incredibly excited about this journey and firmly believe that our success lies in maximizing customer and employee satisfaction and 'Trusted Partner in Projects' to our clients.

# **About Us**

ALMUZAIN is one of the leading Industrial Services Companies that caters to the ever-growing and complex demands of the Petrochemical and Refineries in Saudi Arabia. Founded in 1996, ALMUZAIN is a market leader in the services industry in Kingdom of Saudi Arabia today. We offer diverse and comprehensive services such as **Plant Shutdowns and Maintenance** including Catalyst handling services, Static equipment maintenance, Vacuuming services, Hydrojetting and Bundle pulling services, **Specialized services for heat exchangers** includes retubing works, **Mechanical services** including Piping, Pre-fabrication and erection, Heavy equipment replacements, **Flange Integrity Management** includes Bolt Torquing & Tensioning, Flange Facing & In-situ Machining, **Heat Treatment** and **Scaffolding** services.

We back up our solutions with excellent technical support of over 1500 highly trained, experienced, and professionally managed team and their combined experience & expertise is the difference that we bring to the industry.

ALMUZAIN are approved vendors of SABIC, ARAMCO, SASREF, SAMREF, YASREF, SATORP, SADARA, SIPCHEM, FARABI, TASNEE, ADVANCED, NATPET, DUGAS (Dubai) to name a few.

Over the last decade, we have completed successfully many complex turnarounds across the Kingdom of Saudi Arabia and UAE and have scaled up our in-house capability to provide blind-to-blind services as 'ONE-STOP' service provider.

We are ASME Certified "U" & "S", NBIC Certified "R", ISO 9001:2015, 14001: 2015, 45001:2018 and British Safety Council Member. We are approved by Royal Commission for Environment Permit to Transport Hazardous / Non-Hazardous Industrial Waste.

ALMUZAIN are actively involved and implementing various steps and programs to align with Vision 2030 of Kingdom of Saudi Arabia.



#### **Our Vision**

We envision ourselves as the most reputed and respected Industrial Services Company in the entire Middle East. We work together as a team to make our vision come true by striving for Safety, Quality and Excellence in the services we provide. At the heart of our vision lies our firm belief that our success lies in maximizing customer and employee satisfaction.

#### **Our Mission**

Facilitate every client's success by offering highest level of quality services at fair and competitive prices.

Ensure growth of our company through repeat and referral business based on customer satisfaction in all areas including safety, timelines, attention to detail, and service-centric attitudes.

Achieve and maintain the highest levels of professionalism, integrity, honesty and fairness in our relationships with all our stakeholders – customers, employees, suppliers, subcontractors, and professional associates.

#### **Our Policies**

We initiated a 'Zero Harm, Zero Accidents' policy to commit ourselves to the safety of all our stakeholders. We take immense pride in creating not just a safe working environment with safe systems, but more importantly, we also offer growth opportunities for all our stakeholders to realise their potential.

Our policies undertaken through the Company's Management System are made available for internal annual reviews to ensure its relevance to the organization.



# **Our Services**



# **Our Services**





# **Plant Maintenance & Turnarounds**



# Static Equipment Maintenance

Almuzain undertakes a wide range of static equipment maintenance services on heat exchangers, boilers, columns, vessels and valves etc. during plant turnaround activities. ALMUZAIN have consistently performed and have had many success track records and have won many appreciations. To ensure time bound execution of plant shutdowns, our project team and planners work closely with end-users from the initial stages to ensure the most optimized schedules are achieved adding great value to our customers

### **Catalyst Handling Services**

Almuzain has extensive experience in executing catalyst projects efficiently and safely.

#### Our specialization include:

- Initial Loading and unloading/loading of Catalyst in Reactors, Dryers, Reformers, Continuous Catalytic Regeneration (CCR) Reactors, Naptha / Platformer / Hydrocracker / LTS & HTS Converters / Molecular Sieve Dryers / Primary Reformers (UNIDENSE/UNILOADER Loading Technology) / Secondary Reformers and Vacuum Towers.
- ✓ Pre-mixing, Unloading & Loading of Catofin Reactors in MTBE & PDH Plants
- ✓ Unloading and Loading of Tubular Reactors (EO/EG)
- ✓ Screening & Segregation of Catalyst and Inert Materials (Density Segregation)
- ✓ Unloading, Screening and Loading of Catalyst in various Reactors under Normal and Inert Atmosphere.



# **Plant Maintenance & Turnarounds**

### Heat Exchanger Cleaning (Hydrojettting / Chemical)

Almuzain provides automated and on-site cleaning of process equipment using high pressure water by using advanced internal and external tube bundle cleaning equipment. In order to tackle hazardous environments, we use high performance, high pressure hydro-jetting equipment (10,000 psi to 40,000 psi) complete with safety devices.

Our experienced operators ensure optimum method selection for each application by using specialised tools. They include, fit for purpose lances and nozzles, automated equipment, abrasives and chemical solutions. The result-every project is completed in record time, and passes inspection right at the first time.

We also offer specially trained individuals to accommodate our clients' needs by matching the appropriate equipment to get the task completed efficiently and safely. Moreover, our wet and dry vacuum trucks and tankers work in tandem with hydro blasting technology to transport or dispose of waste matter on or off-site.







# Exchanger Tube Bundle Pulling

Almuzain provides hydraulic tube bundle extractors that prevent damage to bundles caused during extraction. These extractors can handle almost any horizontal bundle with all hydraulic functions remotely controlled for maximum operator safety.

Besides being easy to use even in small spaces, they also dramatically decrease timelines. Our tube bundle extractors are self-contained units which can be easily lifted into position by just one crane and can work independently in any location.

In addition, our special lifting frame ensures ease of offloading as well as maximum reach. we remove the risk of damage to our clients' expensive assets by using a pulling hook mechanism which compensates the massive power against the shell flange.

ALMUZAIN have also successfully designed and configured special purpose-built bundle puller (80 Ton with special arms) for large diameter high-pressure exchangers.



# **Plant Maintenance Services**



#### **Vacuuming Services**

ALMUZAIN fleet consists of custom-built vacuum units and growing fleet of ADR certified vacuum super suckers which are used extensively during the turnarounds for catalyst handling, vacuuming, transport and safe disposal of hazardous waste as per KSA environmental regulations. The operators are fully trained and certified to ensure safe and efficient operations.

#### **Flare Maintenance & Repairs**

ALMUZAIN have executed various flare and flare tip maintenance and repair and change out, guy wire inspection and maintenance, cleaning and lubricating of wire ropes.





# **Reformer Tube Replacement**

Primary reformers are used to convert a "process gas" mixture of hydrocarbons and steam into hydrogen rich gases which can be used in the manufacture of petrochemicals. Reformer tubes need periodic replacements. Almuzain have successful track record of reformer tube and pigtail replacements including complete reformer revamps with refractory change out. ALMUZAIN have very professional and capable teams to handle such critical works within stringent timelines.



### Specialized Services For Heat Exchangers



# **Re-Tubing Services**

ALMUZAIN have Specialized equipment for re-tubing with minimal invasion to existing tube sheets. ALMUZAIN can refurbish exchangers and deliver back which results in excellent process improvements.

Re-tubing services include:

- Shell and tube heat exchanger
- / Fin Fan Air Cooler

# Tube Expansion & Re-Rolling

Tube re-rolling is immediate solution for arresting leak from a tubeto-tube sheet joint during maintenance shutdowns if leaks are found during pressure testing.



# **Internal Tube Puncturing**

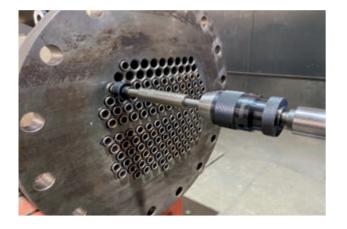
All tubes that are plugged should be pierced to provide venting and draining to prevent plug blowout enabling the plugs to remain till the next tube replacement. ALMUZAIN have specialized tools for tube puncturing ranging from  $\frac{34}{7}$  up to 2".







# Specialized Services For Heat Exchangers



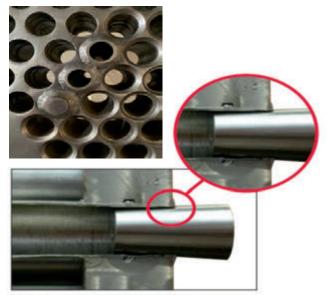
### **Internal Tube Cutting**

Internal cutting is done at areas where puncturing is not sufficient for plugging. In exchangers having high pressure difference or if the leak is from tube sheet joint, tubes are internally cut into two and stubes are pulled out. ALMUZAIN have specially designed tools to cut and remove tubes up to 2.

# Pop a Plug Installation & Removal

Mechanical fit plugs are safe, effective, and reliable solution for heat exchanger tube/ Tube sheet leaks. Plugs are resistant to thermal cycling and able to provide a seal that's helium tight. ALMUZAIN have specialized & certified technicians and equipment to install/ Remove low pressure (68.9 BarG) & high-pressure plugs (483BarG).





### **Manual Tube Plugging**

Welded Tapered plugs are more easily available when compared to Pop-A-Plugs. Friction fit tapered plugs are installed either by hammering or along with seal welding. ALMUZAIN stock wide range of ferrous, Non-ferrous Rods and plates to meet the metallurgical needs of our clients to produce plugs according to client design and standards along with installation services.

Limited contact with tube/tubesheet

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# Specialized Services For Heat Exchangers



### **Tube Sleeving (Ferrule)**

Also known as Tube inserts, metal sleeves are effective solution for tubes if tube ends are eroded or corroded. ALMUZAIN procure and provide Metallurgically compatible inserts based on client requirements, installed, and roller expanded into the tube ID.

### **Individual Tube Leak Testing**

#### **Tube Hydro Testing**

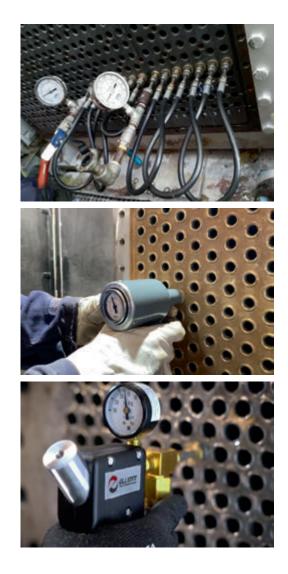
Individual tube hydro test is conducted to locate leak inside the tubes when shell side pressurizing is not possible. It is accomplished by using pressure plugs which seals the tube end without any welding. ALMUZAIN have plus for various range of tubes and pipes which can test up to 413.6 BarG.

#### **Tube Pneumatic Testing**

Individual tube pneumatic test in conducted to locate leak in a tube when shell side pressurizing is not possible. It is accomplished 2 pressure guns sealing both ends of the tube operating under normal plant pressure. Any leak in the tube causes pressure drop inside the tube.

#### **Tube Vacuum Testing**

The objective of individual vacuum testing is to locate leak in a tube when other modes of testing are difficult or not possible. It is accomplished using 2 vacuum guns and creating differential pressure. Any leak in the tube causes increase in the pressure of the controlled space.





# **Mechanical Maintenance**



# Heavy Equipment Replacement

ALMUZAIN have vast experience in replacement of heavy equipment such as RG Boilers, High Pressure Equipment, Heat Exchangers, Reactors, Scrubbers and HARP Replacement etc.





# **Erection of Storage Tanks**

ALMUZAIN are capable of fabricating and assembling storage tanks of various metallurgy and types of tanks.







# **Mechanical Maintenance**

# **Piping, Fabrication and Welding**

We are one of the leading piping, fabrication and welding service providers in Saudi Arabia with a range of facilities under one roof. We are a "One Stop" Welding service provider for specialized welding required by our clients.

Almuzain are certified by American Welding Society (AWS) for welder training and certification by authorized third party agency. ALMUZAIN have 2,500 m2 fabrication shop fully equipped to handle fabrication services. We also provide welder qualification tests and issue coupons. Our Mechanical Division is spearheaded by highly skilled and technically qualified experts API Certified professionals, ASNT Level III, Level II, AWS-CWI/ SCWI, CSWIP 3.1/3.2, NACE/BGAS professionals as well as safety practitioners specialising in quality service.

# Our Quality is supported by NDT services which are provided by authorized third party to include:

- ✓ Industrial Radiography (RT)
- ✓ Magnetic Particle Testing (MT)
- ✓ Dye Penetrant Testing (PT)
- Positive Material Identification (PMI)
- ✓ Ultrasonic Testing (UT)
- Training and Certification
- Consultation, procedure preparation, review and approvals
- $\checkmark$  Welder qualification and certification.



# **Fabrication of Storage Tanks / Silos**

ALMUZAIN have facilities and executed various tanks and silo fabrication in our fabrication shop.





### **Mechanical Maintenance**

# **Specialized Welding Services**

**Lip seal and Diaphragm Cutting and welding** - are critical activities, ALMUZAIN over the years have developed special tools and purpose-built grinders, fixtures for overcoming the space constraint and special tig-torches for the welding.

**Heavy wall thickness pipe welding** - ALMUZAIN have developed specialization in this field by innovation with regards to use of cold cut (pipe cutting machines) capable of cutting and bevelling (different type of grooves), pre-heating/dehydrogenation (heat treatment), special grade weld metal and post-weld heat treatment offered as part of our in-house capability covering the entire scope as per the quality and code requirements.

**Reformer/Furnace tube-welding** - Reformer / Furnace coil replacement with special fixture and rigging arrangement, various complicated welding metallurgy.

**Reactor Screen welding: CCR / Regeneration screen replacement** - ALMUZAIN have experience and have successfully executed CCR/Regeneration replacement including screen fabrication and field installation.

**Urea grade welding / reactor replacement and welding works** - ALMUZAIN have experience and have successfully executed urea reactor replacement / revamp including urea grade welding.

**ASME "U" / NBIC "R" & ASME "S" stamp welding** - Successfully manufactured and delivered pressure vessels to clients, R Stamp pressure vessel repair, Boiler fabrication and repair, Exchanger tube, tube sheet and partition plate repair / replacement.







Column internal shell lining, nozzle replacement and TSR replacement:

Storage tank shell bottom plate / annular plate repair / replacement:
Fin fan cooler tube welding - Onsite using special automatic welding machine
Catofin reactor, shell repair and replacement, liner repair and replacement.
Ammonia converter internal parts replacement (Vertical and horizontal reactors) including interchanger, internal screen and collector.

**Ground flare complete maintenance** and replacement including burner maintenance and replacement. **Waste heat boiler coil / HARP replacement** including headers and burners revamp.



# **Flange Integrity Management**

ALMUZAIN strives to achieve a leak free start for every turnaround it executes and flange integrity management and quality process is the key for us to achieve excellence. The flange integrity management is support by the following.

# **Bolt Torquing & Tensioning**

ALMUZAIN over the years have scaled up bolt torquing and tensioning teams who are certified and fully trained in the tools and equipment we operate. Huge inventory of tools and equipment are at our disposal to support the clients during the regular maintenance and turnarounds.

The torquing and tensioning teams play a major role in achieving leak-free starts and on-time handover of projects. We have invested year-on-year basis and currently have more than 100 certified technicians.





# Flange Facing & In-Situ Maching

ALMUZAIN have in-house capability to do on-site machining up to 3 meter diameter and also have wide range of smaller machines catering to various configurations.

# **Pipe Cold Cutting / Beveling**



### **Drilling / Plate Boring**

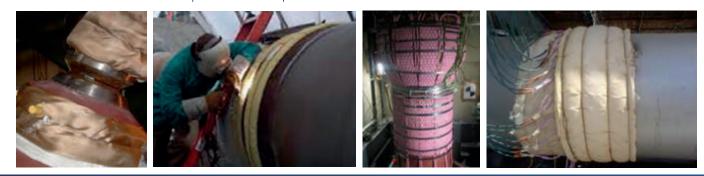




# Heat Treatment

# **Pre/Post Weld Heat Treatment**

ALMUZAIN provide full range of pre/post-weld heat treatment, solution annealing including quenching services, on-site furnace deployment if required, solution annealing using both electric heat-treatment equipment and gas fired furnace. Refractory dry outs, furnace firing and hardness testing. ALMUZAIN PWHT crews are fully trained and experienced.





# **Solution Annealing**

# Refractory Dry Outs



# **Furnace Firing / Hardness Testing**









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#### **Scaffolding Works**

For maintenance, turnarounds, outages and capital projects, we offer complete industrial scaffolding service. We have substantial pool of skilled scaffold builders with supervision and management to execute our scaffolding works including rentable industrial scaffolding assets.

The USP of ALMUZAIN executing the scaffolding works helps and adds value to the client, ensuring timely execution of the projects.







# **Other Services**

### **Equipment Rental Services**



WELDING MACHINE (400/500/600 AMP)





TRAILER (40')



**TOWER LIGHT (4000 W)** 



**DIESEL / WATER TANKER** 

MAN LIFT (15-40 M) / MAN BASKET





**BUS (15 / 55 SEATER)** 

COMPRESSOR (190 - 825 CFM)



HP PUMP (10 K - 40 K PSI)



CRANES (25 - 250 T)



GENERATOR (30 - 100 KVA)



**BUNDLE PULLER (UP TO 80 T)** 





**MAINTENANANCE TRUCK** 

AC UNIT (20-50 T)







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#### CERTIFICATIONS:

ISO 9001:2015 / ISO 14001:2015 ISO 45001:2018 BRITISH SAFETY COUNCIL ASME U & S NBIC R



### YOUR TRUSTED PARTNER IN PROJECTS









#### ALMUZAIN GULF SAUDI CONTRACTING CO.

HEAD OFFICE: P.O. BOX 30205, AL JUBAIL 31951, K.S.A., Tel: 013 - 3404200 / 3404001, info@almuzain.com, www.almuzain.com YANBU OFFICE: RC Industrial Area, Yanbu 30915, K.S.A., Cell: 00966 545786499







#### British Safety Council - Member -



#### This is to certify that Almuzain Gulf Saudi Contracting Company

as a member of the British Safety Council, is committed to keeping people safe and healthy at work.

Lama Datan Mb AL Waterman OBE w Board of Trustees Mike Robinson FCA Chief Executive



BRITISH SAFETY COUNCIL Because Experience Counts

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#### THE NATIONAL BOARD

OF BOILER & PRESSURE VESSEL INSPECTORS

#### Certificate of Authorization

This is to certify that

Almuzain Gulf Saudi Contracting Co Lot #60. MOIH Road Tufavh Area, Jubail West Abu Hadryah 12312 Saudi Arabia

Acceptable Abbreviation: ALMUZAIN

is authorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NB-415, Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location The scope of this Authorization is limited to:

> Metallic Repairs and Alterations At Shop and Field Locations

> > 9821

Certification Number:

Expiration Date: Executive Director

Issue Date:



# S

#### CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers The name Company is additionated by the Animencan Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY

Almuzain Gulf Saudi Contracting Co. Lot #60, Moih Road, Tufayh Area, Jubail West Abu Hadryah 12312 Saudi Arabia

SCOPE:

The American Society of Mechanical Engineers

Manufacture and assembly of power boilers at the above location and field sites controlled by the above location

AUTHORIZED. EXPIRES: CERTIFICATE NUMBER: 56040

May 25, 2021 May 25, 2024

Daniel & Tutos

Board Chair Conformity Assessment

Managing Director, Conformity Assessment



#### CERTIFICATE OF **AUTHORIZATION**

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Almuzain Gulf Saudi Contracting Co. Lot #60, Moih Road, Tufayh Area, Jubail West Abu Hadryah 12312 Saudi Arabia

SCOPE

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: EXPIRES CERTIFICATE NUMBER: 50584

May 25, 2021 May 25, 2024

Board Chair, Conformity Assessment

Managing Director, Conformity Assessment



The American Society of Mechanical Engineers