CORPORATE PROFILE

FABRICATION SERVICES AND BEYOND
WELCOME TO ABJ ENGINEERING & CONTRACTING CO.
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Over one and half decades ago, Kharafi National, the Kuwait based conglomerate, created ABJ Engineering & Contracting Co. KSCC. ABJ was then perceived to be a structural steel and pipe spool Fabrication Company and that would mainly support the construction projects of the parent, Kharafi National.

The concerted efforts and professional approach yielded in expanding the shops to 30000 sq m in Shuaiba Industrial Area in 1993 to another 200,000 sq m grass root facility in Mina Abdullah Area in 2005.

Since then, ABJ has grown by leaps and bounds, developing and launching new products and shifting its stance from an ancillary unit to a “Stand-alone” profit based entity.

The passion to grow exponentially while adopting customer oriented approach could transform the nascent company in nineties to an emerging Global player in the millennium.

Today we serve the tailor made needs of a large clientele in Oil & Gas, Petrochemical, Fertilizer, Power, Water, Wastewater, Infrastructure and Industrial Sectors.

Our diversified range of products comprises of Pressure Vessels, Columns/Towers, Process Equipment Modules, Modularized Industrial Pipe Racks, Piping & Valve Skids, Shell & Tube Heat Exchangers, Heat Recovery Steam Generators (HRSGs), and Packaged Evaporators & Deaerator units for Desalination Plants, Pre-Fabricated Pipe Spools, Pressurized & Atmospheric Shop Fabricated Storage Vessels/Tanks, and Architectural Roof Structures for International Stadiums. The value added services encompass Refurbishment / Re-Conditioning of Coded Pressure Vessels & Heat Exchangers, Lining & Coating of special material in internal surface of Pressure Vessels and...
Large Diameter Pipes for corrosion protection, automatic weld overlay on nozzle necks including small bore pipes.

The export of its products to Spain, South Africa, Russia, Saudi Arabia, UAE, Iran, Iraq, and India…re-enforces the company’s ability to guarantee their clients consistent high quality products at competitive price.

Our dedication to quality is reflected in our being ISO 9001:2008 and our shops have been accredited with ASME “U”, “U2”, “R”, “S”, “P” & “NB”.

ABJ is preparing to acquire “N” Stamp to extend its services to the Nuclear Industry.

We own fiduciary responsibility to meet our commitments to health, safety and environment.

We believe in building up a high morale of people that would sustain us as a great company.
To support its exponential growth, ABJ, Kharafi National’s fabrication subsidiary invested substantial amount in purpose built large scale state of art new fabrication facilities in ICAD III Abu Dhabi.

The new facilities of ABJ Industries PJSC are built in Zone Three of the Industrial City of Abu Dhabi (ICAD III) in UAE. The choice of ICAD III was strategic decision.

ICAD III enables ABJ to cater for clients in the Oil & Gas, Power, Water, Wastewater and Industrial Infrastructure sectors in Abu Dhabi. The location also enables ABJ to fulfill the customized requirements of the South African, Middle Eastern and Western regions while retaining its cost competitiveness and quality.

The new workshop is just five kilometers from a major sea-port and acquisition of their own Nicolas Hydraulic Trailer means that ABJ Industries PJSC is able to easily handle the logistics of delivering massive fabricated equipments to far-away projects.

The fabrication facilities at ICAD III have footprint of over 250,000 square meters.

The new facilities at Abu Dhabi is a mirror image of facilities at Kuwait.
and possess a host of CNC based sophisticated plant and machinery.

The facilities at ICAD III have six covered bays with EOT Cranes. The rest of the plants have spaces allocated to facilities that include:

→ A welders training centre identical to the training centre in ABJ’s Kuwait facilities, where the welders will receive ‘hands-on’ training prior to qualification by a third party.
→ Radiography bunkers for the radiographic testing of pre-fabricated pipe spools and structures to ensure an uninterrupted work flow while protecting the health and safety of workers.
→ Covered storage and a warehouse for storing bulk materials procured for projects as well as ‘free-issue’ materials from clients.
→ Dedicated blasting and painting areas, both covered and open, for surface preparation.
→ A post weld heat treatment furnace.
→ A large area for assembly, testing and pre-commissioning several finished products simultaneously.
→ The exemplary health & safety standards, which are undergoing continuous modification in the light of circumstances and are enforced strictly, will be transferred to its operations in Abu Dhabi.

The new facilities are operational since December 2010.
PRODUCTS → Modular Packages / Skids
Every year more and more plant owners, engineering consultants, OEM’s recognizes the advantages of having all or part of their equipments pre-fabricated on skids. Some time complexity and the size of the equipment can mean that a number of separately built skids (or modules) become necessary. These are simply interconnected at site when delivered to job site.

ABJ is specialized in fabrication of these modular skid mounted packages and capable to manufacture several modules simultaneously. These fabricated modules are tested and pre-commissioned in all disciplines including mechanical, electrical & instrumentation for trouble free hook up at site.

Some of the typical modules fabricated at ABJ are:

→ Process Equipments Modules /Skids.
→ Piping & Valve Skids
→ Gas Dehydration Modules
→ Gas Treatment Modules
→ Chemical Dosing Skids
→ Corrosion Inhibitor Skids.
→ Industrial Modularized Pipe Racks.
→ Evaporator Modules
→ Heat Recovery Steam Generator Modules
→ Deaerator Modules.
ABJ has capability to Design, Manufacture and Supply of Pressure Vessels, Reactors, Columns/Towers, Desalter Vessels, Filter Vessels. ABJ Designs and Manufactures these as per ASME Sec VIII Div 1 and ASME Sec VIII Div 2 and authorized to use ASME "U" and "U2" stamps.

The welding processes and procedure qualifications have been developed for variety of different grades of materials like Carbon Steel, Carbon Steel – NACE/HIC, LTCS, Stainless Steel, Clad Stainless Steel, Clad Inconel etc., Having served clients like Saudi Aramco, ADCO, GASCO, KNPC, KOC, Equate, PIC BAPCO, South Oil Company … EPC major players such as Saipem, Tecnimont, Petrofac, SKEC and other International majors.

ABJ has an illustrious track record in export to Russia, Spain India in addition to supplies to the Middle East & Africa.
ABJ has the capability to Design, Manufacture & Supply Shell & Tube Heat Exchangers as per ASME Sec VIII Div 1 and TEMA, authorized to use ASME “U” stamp. Our shop is self sufficient in drilling and machining tube sheets and flanges using CNC Drilling, Milling & Boring Machines.
ABJ has strategic tie-up with Nooter Eriksen, world renowned Independent designer and supplier of Heat Recovery Steam Generators (HRSGs). Under this agreement ABJ supports and fabricates HRSGs for Nooter Eriksen in the Middle East & North Africa. ABJ shops have acquired “S” stamp accreditations for their fabrication and assembly of power boilers.

ABJ jointly with Nooter Eriksen have secured the first break-through by getting order for HRSGs from Daelim Industrial Co., Korea for their project of 4th LPG Train at Kuwait National Petroleum Company, Kuwait.
ABJ diversified into yet another line of business in 2008 commencement of new era of construction, transportation & erection of Evaporators, Deaerators, Water Boxes and associated equipments for Thermal Desalination Plants. The break-through order was supplied to Shuaiba North Desalination Plant and these were built with the design of Fisia Italimpianti – Italy.

ABJ invested a fortune in building mandatory assets in:

→ Sophisticated Plant & Machinery for critical drilling, milling, machining of tube sheets, tube support plates and collar flanges.

→ Training manpower in fabrication technology

→ Developing critical welding procedures and procedure qualifications (WPS & PQR) to perform critical welds such as Cupro-Nickel to Duplex Steel.

ABJ is fully equipped and geared up to build Modularized Evaporators, Deaerators, Brine Heaters, Steam Transformers and associated equipments for MSF / MED Desalination Plants.
PRODUCTS → Architectural Roof Structures
ABJ is one of the few internationally qualified fabricators for Architectural Steel Structural work for Stadium Roofs. The company is honored to have participated in the fabrication of the Roof Structure for two new stadiums namely Nelson Mandela Stadium at Port Elizabeth and Green Point Stadium at Cape Town South Africa.

Both stadiums were part of the 2010 FIFA World Cup.

ABJ commenced building Stadium Roof Structures in 2007, the first being Jaber Al Ahmed International Stadium in Kuwait.
PRODUCTS → Pressure and Process Piping
ABJ has customized facilities for pre-fabricated Pipe Spools for executing large capacity, in excess of 1 Million Inch dia, for mega projects. Our customized facilities include:

→ ERP based “On-line” Tracking System to track live status on fabrication, NDT, Painting, QC release and dispatch.

→ CNC Plate Cutting Machine installed with “SIGMA NEST” software, having compatibility to handle AUTOCAD Drawings for fabrication of large diameter pipes & MITRES from plates. The software optimizes the cutting layout and minimizes wastage.

→ Dedicated rolling machine for fabrication of pipe spools & mitres from plates.

→ Unique Bar Coding system for segregation and identification of spools – from the incoming materials through to the final dispatch and installation at project site.

ABJ has built illustrious track record for the fabrication of pipe spools in exotic materials such as Stainless Steel 304, 304L, 316, 316 L, Duplex / Super Duplex, Titanium, Inconel, Incoloy, 6Mo Steel, Monel. This is in addition to pipe spools in Carbon Steel including service (HIC) requirements, Low Alloy Steel and Low Temperature Carbon Steel.
ABJ has capability to Design, Manufacture and Supply of Pressurized Storage Vessels such LPG Bullets and Atmospheric Storage Tanks for the core sectors in Oil & Gas, Petrochemical, Fertilizer, Water, Waste Water, Chemical and allied industries. ABJ possess software such “TANK”, “E-TANK” & STAAD PRO and as per codes and standard complying with API 650, API 620, AISC & UL 142.
Storage Vessels and Atmospheric Tanks
Corrosion Protection Services

SERVICES

ABJ possesses the critical skills to apply internal lining & coatings on the internal surfaces of Pressure Vessels, Tanks and Large Process Piping to mitigate corrosion & enhance the life of the equipments.

The following are some of the coating schemes currently practiced in conformance with client’s specifications:

→ Phenolic Epoxy
→ Passive Fire Proofing
→ Glass Flake Resin System
→ Polyester or Vinyl Ester
→ Refractory and Cement Mortar Lining
→ Belzona
→ Metalization (Al, Zn Thermal Spraying)

Re-Conditioning of coded Pressure Vessels and Shell & Tube Heat Exchangers

ABJ Performs weld overlay on nozzle necks for cladded pressure vessels and heat exchangers from small bore 2” to 24” size using an automatic weld overlay machine.
Bore Cladding and Weld Overlay

ABJ holds the National Board “R” Stamp for repair and refurbishment of “U” & “U2” stamped Pressure Vessels including re-tubing of Shell & Tube Heat Exchangers. Other typical work tasks include nozzle and man way addition, head repair and replacement etc.
ABJ has large work force coming from different nationality and all are trained to be multi skilled to work on several projects simultaneously. We are very conscious of the health & safety of our personnel employed at our facilities.

The Company has large number of skilled and qualified welders and many are qualified to weld exotic materials such as Cupro-Nickel, Duplex, Super Duplex, Stainless Steel, Inconel, Incoloy, Alloy Steel, 6 Mo etc.,

We believe “Our people are prime assets”.
ABJ is self sufficient in Design & Engineering. Our team of Design Engineers and qualified CAD Operators performs engineering functions in-house. The team is well versed in using Industry software such as PVElite, Compress, Ansys, StaadPro, Tekla etc.,

The state of art Welding Training Center is believed to be a mandatory asset to impart training to the welders with regard to the given materials, thickness, welding processes, welding position etc.,

The center of excellence has 60 booths to train as well as to pre-qualify all welders by a Third Party and / or clients to minimize weld repairs / re-work, optimize the fabrication cycle time and eliminate undue delays in delivery

ABJ is one of the few fabrication shops in Middle East region to possess such asset.
PLANT AND MACHINERY

COVERED BAYS

ASSEMBLY AREA

RAW MATERIAL STORAGE
ABJ has an extensive range of some of the most sophisticated fabrication, painting and testing equipment in the Middle East coupled with Welder Training Center, Post Weld Heat Treatment Furnace, Radiography enclosures, “Nicholas” Hydraulic Trailers.

Mina Abdullah & Shuaiba Shops, Kuwait - Total area 230,000 Sq.M
LOGISTICS

With strategic location of the shops just 5 kilometers away from the sea-port and acquisition of their own remote controlled “Nicolas” Hydraulic Trailers, ABJ takes care of the inter-model logistics with the ease that builds their Clients’ confidence in reaching the over-dimensional consignments at the door step of far away project destinations.
ACCREDITATIONS
OUR LOCATION

www.abjengineering.com