

دخيل الجسار Dakheel Aljassar



INDUSTRIAL PROJECT PROFILE

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Introduction

The story of modern Kuwait begins with the exploration of Oil in the heart of the desert. With drilling of Oil Kuwait started its economic growth that influenced all aspects of life and services.

The History



History of the Dakheel Aljassar Co. dates back to 1934 when Mr. Dakheel Aljassar started trading activities in the field of Construction materials. The economic growth demanded the necessity for the proper Distribution of Electrical Energy in Kuwait and it became one of the prime tasks for the Government. With an aim to reduce the dependency on importing Electrical Switchboards from foreign market, a new factory was established by Mr. Dakheel in 1965, known as "Dakheel Aljassar Electrical

Equipment Factory". It was the first license issued by the Kuwait Government for manufacturing Electrical switchboards in the State of Kuwait.

The Beginning was in Shuwaikh, an Industrial Area near to Kuwait City. Developments continued and the product ranges covered every need in Low Voltage Electrical Power Distribution System, from Final distribution Board for houses to Main panel Boards directly fed from the Transformers. The factory hitherto extended several folds from the date of inception.

Along with the progress of Kuwait, Dakheel Aljassar Electrical Industries also registered tremendous growth by catering every need of the customer. The business was diversified in to the Trading of all Electrical Installation Materials and several showrooms were opened throughout the State of Kuwait.



Dakheel Aljassar Headquarters Located in Sabhan Industrial Area

The Present

The Growth and diversification in business activities demanded more space and as result by 2001, the activities were shifted to the present premise in Sabhan Industrial area. Subsequently within the following few years the Factory was also relocated to the new area.

The present location covers an area of 20,000sq.m and it includes the Offices, Factory and Warehouse.

The factory, when shifted to the new area, was refurbished with latest state-of- the- art machineries and equipment required for the fabrication of the Switchboards.

Dakheel Aljassar's policy of continuous product development coupled with perfection ensures its ability to cater the ever changing needs of the market.

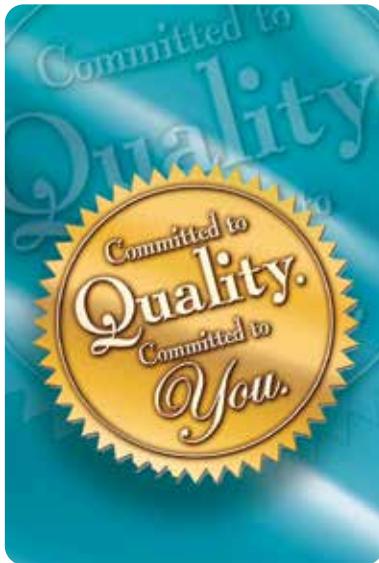
In addition to the above, the success story of Dakheel Aljassar is attributed to the genuine customer satisfaction, ethical business practices and integrity in business dealings.



5,000 Sqm Factory Area



2,000 Sqm Warehouse



The Management

Our Business Structure

As our business operations cover all the market segments including Retail, Whole sale, Projects and Export, the organizational structure is composed of various departments that deal with specific market segments, products and services. A corporate synergy exists between the departments to ensure the fast and efficient delivery of products and services to our valued clients.

Quality Certification

Keeping at par with the world-class standards, our Company boasts of its High level of Manufacturing and Quality Control process as attested by our IQNET and QMI BS EN ISO 2008 :9001 certifications.





The Factory

Our factory is one among the few full-fledged low voltage switchgear plant in the State of Kuwait having a built up area of 5000 sq.m. The plant has the capability to design, develop and produce low voltage switchgear panels as required by the clients in line with MEW Kuwait and IEC regulations. The engineers and skilled workforce of 150+ personnel, are the backbone of the plant. With its continual improvement and investments in advanced technology, Dakheel Aljassar plant is able to provide state-of-the-art manufacturing facilities. All processes are interlinked employing the latest Enterprise Resource Planning (ERP) software.

Designing & Engineering

- Competent in-house Design and Engineering team equipped with state-of-the art CAD.
- Continuous evaluation and up-gradation of design.
- Offers Support to consultants and contractors during project initiation stage.
- Tailor made solutions for customer specific requirements.
- Compliance to Local and International Standards.

Sheet Steel Fabrication

One of the major parts of the Switchgear and Controlgear assemblies is its Sheet Steel Work. We use high quality Electro Galvanized Sheet steel from reputed mills. Latest CNC Punch Presses, CNC Bending Machines etc. are used in the steel fabrication. These machines facilitate consistent accuracy and minimize the element of human error.



Powder Coating Facility

All sheet steel parts needed to be protected against corrosion. In order to achieve the best in the Industry, we are making use of our Conveyorized, In-line Pre-treatment and Powder Coating Plant. The Pre-treatment line, the core factor to ensure corrosion protection, is a Six stage one with Zinc Phosphating. Pre-treated Parts are send to the powder coating booth where the work is carried out by automatic powder spray guns, With the help of the Zinc Phosphating Pre-treatment line, we achieve up to 800 hours of salt spray test protection. Furthermore, We apply polyester powder so as to have excellent stability against UV Rays.

Busbar Fabrication

Electrolytic Copper of purity 99.9% is used for fabrication of the Busbars. Bare Copper bars are used in fabrication and after completion of fabrication process, the bars are Electrolytically Tin Plated in our in-house Plating facility. This process ensures that all cut edges and inside of the drilled holes are all covered completely with Tin.

Assembly Lines

- Seperate assembly lines for DB's, Cubicle's & LT Panel's.
- Assembly lines are fully equipped with necessary tools & equipment.
- All work tables provided with pneumatic tools.

QA/QC Testing

- Elaborate quality assurance systems for inward, in-process and final quality of items ensuring consistent quality of products in line with ISO 9001 requirements.
- Test equipment to conduct routine tests stipulated by IEC.



General Product List

- Main Low Tension Boards
- Main Switchboards
- MCB Distribution Boards
- Motor Control Centers (with fixed, Movable or fully withdrawable units that can be mixed and matched to suit any configuration)
- Starter Panels (Conventional, Soft Starter or VFD)
- Street Lighting Feeder Pillars
- Street Lighting Service cut-outs
- Service Cabinets
- Transfer Switches (Manual and Automatic)
- Enclosed Switch Fuses and Load break Switches
- Other Custom Built Panels
- Galvanized Switch Socket Box





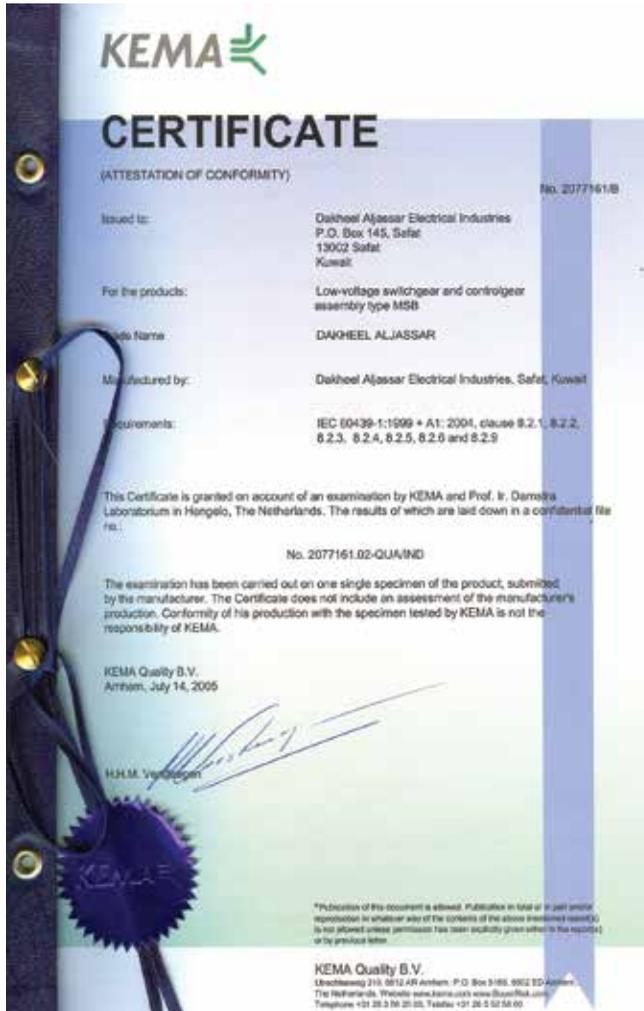
Compliance with Standards

The Switchboards and Controlgear Assemblies are designed and manufactured in compliance to IEC 439-1. Switchgear Assemblies manufactured by us incorporating components were successfully type tested & certified in KEMA Netherlands and details are highlighted as follows:

MLTB - 1600Amps with 2000Amps Busbar was type tested for a Rated Short Time Withstand Current of 50kA for 1 sec.

MLTB/MCC – 2500Amps with 3000Amps busbar was type tested for a Rated Short Time Withstand Current of 65kA for 1 sec. The Tested Panel was a composite one having Incoming withdrawable ACB of 25000Amps and outgoing circuits in Fixed, Withdrawable and Movable executions in IP54 construction. Moreover during the test, the Main Busbar was separately tested for Temperature Rise withstand with 3000Amps rating to ensure with the local requirement.

MSB - 400Amps with 400Amps Busbar was type tested for a Rated Short Time Withstand Current of 35kA.



KEMA Certificate for MSB



KEMA Certificate for LT Panel



KEMA Test Certificate

No. 2117139.100

Issued to: Dakheel Aljassar Electrical Industries
P.O. Box 145, Safat
13002 Safat
Kuwait

For the product: Low-voltage switchgear and controlgear assembly

Trade name: ALJASSAR MODULAR

Type/Model: MLTP/MCC

Ratings: Ui max. 1000 V, Uimp max. 8 kV, horizontal busbar Ie max. 3000 A,
Incoming unit 2500 A ACB with test current Ie max. 2400 A, Icw 65 kA – 1,0 s,
Icc 65 kA at 415 V

Manufactured by: Dakheel Aljassar Electrical Industries
P.O. Box 145, Safat
13002 Safat
Kuwait

Subject: Type tests

Requirements: IEC 60439-1:1999 and amendment 1:2004
clause 8.2.1 up to and including 8.2.7 and 8.2.9

Remarks: -

This Test Certificate is granted on account of an examination at KEMA, the results of which are laid down in test report no. 2117139.01-QUA/INC, dated June 17, 2009.

Examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of this production with the specimen tested by KEMA is not the responsibility of KEMA



KEMA Quality B.V.
Arnhem, June 17, 2009

H.R.M. Barends
Certification Manager

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KEMA
TESTED

Technical Data for MLTB

Electrical Data	
Rated Operational Voltage	415 V
Rated Frequency	50Hz
Busbar Data	
Rated Insulation Voltage	800V
Rated Impulse withstand Voltage	8 kV
Rated Current	Up to 3200 Amps
Rated Short time withstand Current	65kA, 1 sec
Rated Peak withstand Current	143 kA
Busbar Material	Oxygen free electrolytic flat copper bars, electro tinned after fabrication just before jointing
Busbar Support	Made out of Glass Reinforced Polyester Material
Busbar Arrangement	Busbars are mounted on high quality supports and employ bolted connections, tightened to the right torques.
Enclosure Data	
Degree of Protection	IP 52 (IP54 on request)
Form of Separation	Form 3b, Form 4a, Form 4b
Enclosure Material & Construction	Folded sheet steel construction, manufactured from electro galvanized cold rolled zinc phosphated steel sheets, 1.5 mm for doors and cover plates and 2.5 mm for plinth
Finish	Sheet steel parts are passed through a 6 stage pre-treatment system and then provided with electrostatic Polyester powder coating.
Standard Colour	RAL 7032, textured finish.
Installation	Floor mounted
Entry of Cables	Top/and or Bottom
Access	Front or Rear
Standards	IEC 60439-1



Technical Data for MCC

Electrical Data	
Rated Operational Voltage	415 V
Rated Frequency	50Hz
Busbar Data	
Rated Insulation Voltage	800V
Rated Impulse withstand Voltage	8 kV
Rated Current	Up to 3200 Amps
Rated Short time withstand Current	65kA, 1 sec
Rated Peak withstand Current	143 kA
Busbar Material	Oxygen free electrolytic flat copper bars, electro tinned after fabrication just before jointing
Busbar Support	Made out of Glass Reinforced Polyester Material
Busbar Arrangement	Busbars are mounted on high quality supports and employ bolted connections, tightened to the right torques.
Enclosure Data	
Degree of Protection	IP 52 (IP54 on request)
Form of Separation	Form 3b, Form 4a, Form 4b
Enclosure Material & Construction	Folded sheet steel construction, manufactured from electro galvanized cold rolled zinc phosphated steel sheets, 2mm thick for frame work, 1.5 mm for doors and cover plates and 2.5 mm for plinth
Finish	Sheet steel parts are passed through a 6 stage pre-treatment system and then provided with electrostatic Polyester powder coating.
Standard Colour	RAL 7032, textured finish.
Installation	Floor mounted
Entry of Cables	Top/and or Bottom
Access	Front or Rear
Construction	
Types of Outgoing Units	Movable, Withdrawable or Fixed
Standards	IEC 60439-1



Technical Data for MSB

Electrical Data	
Rated Operational Voltage	415 V
Rated Frequency	50Hz
Busbar Data	
Rated Insulation Voltage	800V
Rated Impulse withstand Voltage	8 kV
Rated Current	Up to 1200 Amps
Rated Short time withstand Current	35kA, 1 sec
Rated Peak withstand Current	73.5 kA
Busbar Material	Oxygen free electrolytic flat copper bars, electro tinned after fabrication just before jointing
Busbar Support	Made out of Glass Reinforced Polyester Material
Busbar Arrangement	Busbars are mounted on high quality supports and employ bolted connections, tightened to the right torques.
Enclosure Data	
Degree of Protection	IP 52 (IP54 on request)
Form of Separation	Form 2
Enclosure Material & Construction	Folded sheet steel construction, manufactured from electro galvanized cold rolled zinc phosphated steel sheets, 1.5 mm for Enclosure and doors.
Finish	Sheet steel parts are passed through a 6 stage pre-treatment system and then provided with electrostatic Polyester powder coating.
Standard Colour	RAL 7032, textured finish.
Installation	Floor mounted
Entry of Cables	Top/and or Bottom
Access	Front
Standards	IEC 60439-1



Technical Data for MCB DB

Electrical Data	
Rated Operational Voltage	415V
Rated Current	100A
Rated Frequency	50Hz
Busbar Data	
Rated Insulation Voltage	800V
Rated Impulse withstand Voltage	8 kV
Rated Short time withstand Current	10kA, 1 sec
Busbar Material	Oxygen free electrolytic flat copper bars, electro tinned after fabrication just before jointing.
Busbar Support	Made out of Glass Reinforced Polyester Material
Busbar Arrangement	Busbars are mounted vertically on high quality supports. The connectors (for the outgoing MCBs) are riveted to the main Busbars using copper rivets eliminating any maintenance.
Enclosure Data	
Degree of Protection	IP 41 (IP54 on request)
Form of Separation	Form 2
Enclosure Material & Construction	Folded sheet steel construction, manufactured from electro galvanized cold rolled zinc phosphated steel sheets, 1.5 mm for Enclosure and doors.
Finish	Sheet steel parts are passed through a 6 stage pre-treatment system and then provided with electrostatic Polyester powder coating.
Standard Colour	RAL 7032, textured finish.
Installation	Wall mounted (Surface mounted/Flush Type)
Entry of Cables	Top/and or Bottom
Access	Front
Standards	
	IEC 60439-1



Al Tilal Commercial Complex

Al Tilal Commercial Complex is one of the high end commercial complexes located in Shuwaikh, Kuwait with good number of exclusive boutiques of famous brands.

Dakheel Aljassar Electrical Industries was approved by Jazeera Consultants to be the supplier / manufacturer for :-

- Main Low Tension Board
- Automatic Transfer Switch
- Main Switch Boards
- Control Panels
- HVAC Panels
- Custom Panels



Kuwait Center For Autism

The main building for the Kuwait Autism Center is located at Mishref, Kuwait. This is a specialized center developed by Kuwait Government to support those who are ailing with the disorder of Autism.

Dakheel Aljassar Electrical Industries had supplied the complete Low Voltage Switch-gear Assembly for the project including:

- Main Low Tension Board
- Main Switch Boards
- Distribution Boards
- HVAC Panels



Al Omooma Hospital

Al Omooma Hospital is a specialized Maternity & Pediatric hospital located in Riggae, Kuwait. Hospital is equipped with state of the art medical equipment and is well known in the society.

The electrical contractor for the project was Bader Al Mulla & Bros Company & the consultant is Nezar Al Anjeri.

Dakheel Aljassar Electrical Industries supplied :-

- Main Low Tension Board
- Main Switch Boards
- Audio Visual Alarm System
- Distribution Boards
- Motor Control Center



Olympia Tower

Olympia tower, Located in Salmiya, Kuwait is a multipurpose commercial building having 3 basement, 4 Floors of shopping area, 11 floors of hotel area & 23 floors of office Building. The Head Quarters of Olympic Council of Asia is situated in the building. The tower is owned by United Resources Real Estate Co. and the consultant was Nezar Al Anjeri.

Dakheel Aljassar Electrical Industries supplied :-

- Main Low Tension Board
- Main Switch Boards
- Change Over Panels
- Control Panels
- Distribution Boards



Panasonic Tower

Owned by Essa Hussain Al Yousfi the main office for Panasonic in Kuwait. The tower is located in Kuwait City

Dakheel Aljassar Electrical Industries supplied :-

- Main Low Tension Board
- Main Switch Boards
- Control Panels
- Distribution Boards
- Motor Control Center



Kuwait Airport – Sheikh Saad Terminal

Sheikh Saad Terminal Building was designed by Gulf Consultant. The construction was supervised by Gulf Consultant.

Dakheel Aljassar Electrical Industries supplied :-

- Main Low Tension Board
- Main Switch Boards
- Sub - Main Switch Boards
- Distribution Boards
- Synchronizing Panels



Oil Sector in Kuwait

Kuwait National Petroleum Company (KNPC) and Kuwait Oil Company (KOC) are the Two Major Oil Companies in Kuwait. When KNPC was established in 1960 it was the only and first national company in a region where hydrocarbon resources were managed and exploited by foreign companies. In 1975 the State acquired full ownership of KNPC and compensated the private shareholders for their stocks. In 1980 Kuwait Petroleum Corporation (KPC) was established as the state owned asset and all other oil companies in Kuwait, including KNPC, became KPC subsidiaries. Kuwait Oil Company's responsibilities under the KPC's umbrella involve the exploration, drilling and production of oil and gas within the State of Kuwait. The Company is also involved in the storage of crude oil and delivery to tankers for export.

Dakheel Aljassar Electrical Industries is an approved vendor for the above two companies.

Other Projects :-

KAC Jumbo Hangar

IBIS Hotel & Salmiyah Shopping Center

GTC - Paint Manufacturing Co.

Sheraton Hotel

Regency Palace Hotels

Hilton Resort

Salalah Touristic Park - Sultanate of Oman

Salalah Carrefour - Sultanate of Oman

Faisal Tower

Villas, Major Residential Buildings, Ministries Complexes

& Many More...

Our Product's Approval Bodies are:-

Ministry of Energy

Ministry of Education

Ministry of Public Works

Kuwait National Petroleum Company

Public Authority for Housing Welfare





Our Partners



Powering Business Worldwide

Eaton is a global technology leader in diversified power management solutions that make electrical, hydraulic and mechanical power operate more efficiently, effectively, safely and sustainably. Eaton's Electrical Distribution and Control portfolio offers Electrical Distribution equipment and Industrial Control Products.



The leading Korean company manufactures high quality Circuit Protection devices and Control products for both Low voltage and Medium Voltage applications. Pursuing flexibility, Safety and reliability, all Products are tested and certified by internationally recognized Testing Station like KEMA (Now DEKRA), KERI & CESI.



KATKO is a Finnish switch manufacturer with well over sixty years of experience in designing and manufacturing Load Break Switches and Switch Fuses.



The Logstrup is one of the leading customized panel builders from Denmark. Logstrup Modular System incorporates fixed, removable, withdrawable and inline technology for Switchboards and Motor Control Centers.



SACI, Sociedad Anónima de Construcciones Industriales, is a Spanish company formed in 1941 that designs and manufactures electrical measurement devices and control systems.



Broyce Control is one of the UK's leading designers and manufacturers of Industrial Process Control Equipment.

