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Name: MASOUD M. ABDULSALAM ELKHAZKHAZ

Place & Date of Birth: BENGHAZI / 1959

Nationality: LIBYAN

Qualifications: B.Sc. in Mechanical Engineering 1982-University of BENGHAZI

Mini MBA- Approved by Missouri State University-USA-2012

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1. GENERAL:

More than thirty two years (33) of experience in management, design, supervision and coordination for infrastructure projects (water supply, sewage, storm, roads, street lighting..... Etc) from work in governmental and private, consulting engineering offices and others at different places in the country, including large pumping stations, sewage treatment plants & hospitals. We got big opportunity to make some engineering works in the Man Made River project which considered one of a huge engineering project in the world. Familiar with contracting procedure and dealing with an international consulting firms, a sworn judicial expert in Benghazi primary court.

1.1 2014/2016 General Manager for building Material Manufacturing Company

Alhossun Aldawlyah Company for manufacturing of building materials established in 2014, the first project for the company is production of cement block & interlock which used for buildings and paved areas, the project will start production by the end of 2017. The factory is full automatic production line using German technology machinery manufactured in china.

1.2 2012/2016 Chairman of the Libyan Society of Mechanical Engineers

Libyan Society of Mechanical Engineers is a professional, specialized, volunteer, independent national non-governmental association not-for-trading activity and operates according to the laws on associations and civil institutions and civil society organizations and lead various activities for the purpose of raising the level of the profession of mechanical engineering and seeks to strengthen its role in advancing comprehensive sustainable development in Libya in the fields of scientific research, training, development, and the ongoing rehabilitation of Mechanical Engineers, the care and support of technical innovation.

1.3 2013 Membership in Euro-Mediterranean-Arab Association (EMA)

The head office for the above association in Hamburg City in Germany, it concern with the economical Cooperation between Europe and Arab countries located at Mediterranean Sea.

1.4 2012/2016 Membership of German-Libyan Friendship Society

Membership of German-Libyan Friendship Society was obtained under the number (19) in 17/9/2012.

1.5 2012 Membership of the Federation of Arab Engineers

Membership of the Federation of Arab Engineers was obtained under No. 15/107 dated in 28/03/2012.

1.6 . 2011/2012 Member of the Board of Directors of the Libyan Federation of Engineering Consultancy

Libyan Federation for Engineering Consultancy which is one of the institutions of civil society, the federation includes all offices and businesses of engineering consulting in the private sector.

1.7 2008/2009 Project Manager, Design for water supply project (engineering works).

This project work includes collection of information, survey, engineering design, technical specifications, bill of quantity, and bedding documents to provide (23) regions with drinkable water from the Man Made river project, along the sector of JABAL ALHASAWNA, JAFARA and ALSEDADA, SIRT. The drinkable water system consists of pipelines 242 km in length with diameters ranged from 200 mm to 1000 mm and (15) pressure relief tanks with a capacity from 1500 m3 to 50,000m3, in addition to (2) pump stations, one with a capacity of 48,000 m3/day and head of 190 m and the other with a capacity of 4,100 m3/day and head of 145 m.

1.8 2004/2006 Project Manager, HAWARI hospital project 520 beds (execution supervision).

This project includes complete renewal and improvement of the mechanical & electrical system of the hospital building which was constructed in 1973, in addition to the civil engineering works. The mechanical work includes supply and installation (4) chillers, (22) air handling units, air ducts system, (2) boilers, an incinerator, medical gas system, hot / cold water pumping system, irrigation system, sewage water piping system, firefighting system, ...Etc. The Project contractor for civil works PWA (local contractor) and for electromechanical contractor VAMEED ENGINEERING (Austrian).

1.9 2006 Project Manager, Benghazi cardiology center project (engineering works).

This project includes extension of the existing building by adding an operation theatre and emergency care unit in the first floor in addition to the architectural changes of the existing building, preparing structural, mechanical & electrical designs, technical specifications and bedding documents. The mechanical work includes a fire fighting system, passenger elevators and bed elevators. All above mentioned works were performed under our direct supervision and we designed the passenger elevators, bed elevators and prepared their technical specifications.

1.10 2005 Project Manager, central pharmacy project (engineering works).

This project work includes engineering design, technical specifications, bill of quantity, and bedding documents. Complete renewal and improvement of the mechanical and electrical system of the pharmacy stores which was constructed in 1973, in addition to the civil maintenance works of the existing buildings, design of internal roads & landscaping. The mechanical work includes the design of (9) package air handling units air ducts and firefighting system. All above mentioned works were performed under our direct supervision with technical support from an international consulting office (HAMMZA ASSOCIATES).

1.11 2004 Project Manager, hydraulic study of Benghazi city (engineering work).

This project includes the use of the collected information about the city drinking water network to execute the hydraulic analysis using the latest computer software's and mathematical patterns to simulate water distribution networks in order to predict the future effects resulting from changes in operating conditions without disturbing the actual existing water network and expecting any problems to prepare solutions in advance. The hydraulic model executed by a technical support from an international consulting engineering office (ENGINEERING CONSULTANTS GROUP-ECG) under our direct supervision.

1.12 2003 Project Manager, Benghazi drinking water networks (engineering work).

This project includes the collection of all information available with the owner of the network including 300mm and over piping networks, valve chambers, pumping stations, elevated water tanks, city water well sites, chlorination system, air photographs, general plan maps of the city, population and other information. These information was entered to the computer and analyzed to know the technical condition of the existing systems and so it became to get benefit of this huge quantity of information in a data base system that can be used in future in the preparation of hydraulic model and geographic information system (GIS) of the city drinking water network. All phases of work were finished under our direct supervision.

1.13 2003 Project Manager, fishing ports (engineering works).

This project includes design of two fishing ports in ZWETINA & AGHAILA including the collection of local weather information (such as wind, rain, humidity, ebb & flow), fishing boat types & their specifications, local building material sources, previous environmental studies, air photographs of the ports, area fish types, topographic, hydrographic & geological survey maps and other necessary information. Collection of information, land geotechnical works and land survey were carried under our direct supervision. The marine survey, marine geotechnical, engineering design, technical specifications and tender document executed by a technical support from an international consulting engineering office (HAMMZA ASSOCIATES).

1.14 1995/1996 Design Coordinator for Western village's water supply project.

The above mentioned project to supply water from the Man Made river project, along BENGHAZI sector the project comprises of Ground tanks, a pipeline system, valve chambers, a pumping station with a design capacity of (14,679) m³ /day, and a Chlorination plant. The water is pumped from the station through pipelines of dia. (400) & (300) mm to SULO(5km), MAGROON(30 km), GEMENES(25km) and AL-KHADRA(10km). The above mentioned project comprises of a pump house (4) pumps working (2) stand by, surge vessels, valve chambers, flow meter, generator house, screen chamber, pipe work, steel work.....etc.

1.15 1997 Design Coordinator for BENGHAZI Distribution Pumping Station.

The pump station supplying (190,000) m³/day of water at head (79.6)m from the Man Made River project to (609) farm tanks capacity (240) m³ each. The pump station consists of (4) pumps motor power 600 kw , surge system ,isolation valve chamber, flow meter chamber, screens system , piping system, steel works and other buildings.

1.16 1995 Design of pipe laying schedule for Tripoli water supply project.

Design of pipe laying schedule for Tripoli water supply project from the Man-Made River for pipe Dia. (1800) mm, (1600) mm and (1200) mm for the connection of two existing Pumping Station to the conveyance line, the job includes the design of Valve Chambers (Air valve, Washout, Sluice gate, non-return valve, Pressure Control valve.. etc.) for **TRIPOLI** water supply project from the Man Made River Project.

1.17 1989 -1991 Project Manager for AJDABIYA Sewage Project - Stage III.

The Project consists of sewage treatment plant located outside the city with a design capacity of (20,500) m³ /day, including (3) pumping stations in the city. The accumulated sewage in pumping station No.(1) is pumped to the treatment plant by Asbestos Cement pipeline of dia. (700) mm. with a total length of (7.145) km . The project contractor **DAEWOO** and contractor consultant **KRUGER AS**.

2. OTHER JOBS.

- 2001/2006 board of directors and technical manager for engineering consulting office for **BENGHAZI** municipality (**governmental consultant**).
- 2001 committee member for preparation scope of work for **BENGHAZI** hydraulic study.
- 1998 General technical manager for projects in **AGABAL ALKHDAR**.
We are responsible about the following projects:
 - ✓ Maintenance of **AL-MARJ** hospital, capacity (300) beds.
 - ✓ Construction of **El-BEDAH** hospital, Capacity (40) beds
 - ✓ Construction of **AL-MARJ** sewage treatment plant, capacity (16,000 m³/day).-
- 1997 Committee member in study of offers submitted by International firms to execute the project of supplying **BENGHAZI** with water from the Man-Made River (200,000) m³ /day.
- 1998 Design of passenger elevators including preparation bill of quantity and technical specifications for **SHAHAT** hotel.
- 1998 Committee member in study of offers submitted by International firms to execute the project of supplying the (609) farm with water from the Man-Made River, capacity (190,000) m³ /day.
- 1992-1994 Project Manager of the Central Market Project - **BENGHAZI**.-
- 1993 Preparation of Quantities of the Irrigation pipeline system & accessories relating to the project of supplying the (613) farms.
- 1992 Committee member in study of the Scope of Work modification of the supplying of **BENGHAZI** with water from the Man Made River Project.
- 1992 founder member in The Libyan Company for Technical Consultancy (**private consultant**).
- 1991 Committee member for studying the construction of **SURMAN** Sewage treatment plant.
- 1990 Committee member in collecting an information regarding Sewage & Water networks for preparation of **TUBROK** city planning.
- 1989/1995 **IBN AL-HAYTHAM ENGINEERING OFFICE** general manager (private engineering office).
- 1989/1990 supervising mechanical works for the execution of **KUFFRA** natural water plant factory.
- 1987 Committee member for studying the construction of a Drip-Irrigation Plant Project - **BENGHAZI**.
- 1986 Committee member for studying the expansion of (300) cows complex & dairy plant **KUFFRA** Settlement Project.
- 1985-1989 Site Engineer for construction of Stage III of **AJDABIYA** sewage Project.
- 1985 Site Engineer in **BENGHAZI** Central Hospital Project (1200) beds from 2/4/1985 till 8/6/1985.
- 1985 Maintenance Engineer for the Green Houses Project – **GOWARSHA - BENGHAZI**.
- 1985 Committee member in supervising the Dairy cow complex Project (1200) cows - **BENGHAZI**.

- 1985 Committee member in the preliminary handing over of the Dairy cow complex Project- **BENGHAZI**
1985 founder of **IBN AL-HAYTHAM ENGINEERING OFFICE (private engineering office)**.
- 1984 Committee member for studying the offers submitted by some companies regarding the pasteurization and training for the Dairy cow complex Project (1200) cows - **BENGHAZI**.
- 1984 Committee member for the preliminary hand over of the first stage of water pipeline and accessories for supplying the cow complex and Glass Houses in **GOWARSHA**.
- 1983 Mechanical engineer in the authority for operation and maintenance for infrastructure in **BENGHAZI** municipality (sewage, storm, water, roads and street lighting,.....Etc.) .
- 1983 Committee member of the handover of **KUFFRA** Gas Power Station (75 Megawatt)
- 1982 Site Engineer for the execution of a Dairy farm (300) cows and a Dairy plant- **KUFFRA**.
- 1982 site engineer in the execution of Green Houses project- **KUFFRA**.

3. INTERNATIONAL CONSULTING FIRMS.

From the above mentioned experience there were some works with international consulting engineers who had a joint venture or technical assistance with the governmental consulting engineers where we were working, or technical assistance or consultant to the client or the contractor. The above direct and indirect contact with the international consulting engineers gave us good practical experience and know-how for huge engineering works. The international consulting engineers are as listed below:

- **ARABTECH JARDANEH** (offer for design of infrastructure project) www.arabtechjardaneh.com-2013
- **CITEC ENGINEERING INDIA PVT. LTD** (design HVAC&FF for water pumping station) www.citec.com- 2010
- **ILF BERATENDE INGENIEURE GMBH** (offer for desalination plant- oil& gas sector) www.ilf.com-2010
- **FARRER CONSULTING ENGINEERS** (offer for sewage treatment plant) www.farrerconsulting.com-2010
- **ENGINEERING CONSULTANT GROUP (ECG)** - Arabic consultant- 2003
- **HAMMZA ASSOCIATES (HA)** - Arabic consultant-2003
- **BROWN&ROOT** - European consultant-1995
- **AHMED ABDELWARRETH** – Arabic consultant-1995
- **KRUGER AS** - European consultant-1985
- **HOWARD HUMPHREYS&SONS** - European consultant-1985

4. A SWORN JUDICIAL EXPERT IN BENGHAZI PRIMARY COURT.

A Court technical Consultant from 1989 until now, regarding problems of a specialized technical nature, the following important technical report was been issued:

- Problem no.(721/97) injury of operator by hydraulic press.
- Problem no. (340/96) injury of operator by high pressure hose.
- Problem no.(572/93) injury of operator by refrigerator.
- Problem no.(2787/93) injury of operator by rolling machine.
- Problem no.(1241/96) injury of operator by hydraulic press.
- Problem no.(1187/95) injury of operator by overhead crane.
- Problem no.(306/96) injury of operator by fuel tank.
- Problem no.(1111/97) injury of operator by steel wire.
- Problem no.(66/95) regarding supply and installation of tower crane.
- Problem no.(757/97) regarding supply and installation of passenger elevator.

5. PAPERS AND RESEARCHS.

Attending local scientific conference and seminars, the following papers was been issued:-

- **Engineering problems and Libyan law** -The first's conference about the management of maintenance during the period 15 - 18/11/1997.
- **mechanical principles for design of sewage pumping stations** -The second national conference for the engineers during the period 23 - 25/9/2003.
- **presentation of solid waste management for BENGHAZI city** -The Seminar for recycling and management of solid waste during the period 7 - 9/12/2003.

6. INTERNATIONAL BUSINESS WORK TASKS.

During the period of work have been done many international tasks which are working with the tasks to attend tests or inspection devices and mechanical equipment or a visit to the manufacturers or attend technical meetings or seminars, conferences, and other, which is at least the following:

- **2014 CHINA**, visit to Guangzhou international fair for building materials during the period 15-20/4/2014.
- **2014 CHINA**, visit for companies for manufacturing machinery of production of cement block & interlock during the period 10-15/1/2014.
- **2012 JORDAN**, a working visit to attend the Second Meeting of the Libyan Arab businessman held in Amman during the period of 1- 2/10/2012.
- **2012 TURKEY**, the task training course during the period of 16-25/9/2012 to attend a training program to get Mini MBA professional which is granted from the **UNIVERSITY OF MISSOURI - UNITED STATES**.
- **2011 JORDAN**, a working visit to attend the preparatory conference and exhibition for the reconstruction of Libya, held in Amman during the period 14-18/12/2011.
- **2010 CHINA**, a working visit at the invitation of the export of labor organization under the auspices of the Chinese Ministry of Commerce to attend the Fourth China International Conference of employment in the Chinese capital Beijing during the period of 18-20/11/2010.
- **2010 INDIA**, a working visit to CITEC engineering company during the period of 1-3/5/2010 to hold substantive discussions on cooperation in the fields of energy, oil and gas.
- **2007 GERMANY**, a working visit to attend the Libyan- German Business Forum during the period from 19-20/11/2007.
- **2005 FRANCE**, the presence of mechanical tests of the incinerator, the maintenance and development project of **HAWARI** hospital.
- **2004 AUSTRIA**, a working visit to hold technical meetings with **VAMED ENGINEERING** GmbH Company for the maintenance and development project **HAWARI** hospital.
- **2002 EGYPT**, a working visit to hold technical meetings on the project of hydraulic study of the drinking water network of the city of Benghazi and two fishing ports of **ZWAITANA** and **AGEELAH**.
- **1997 GERMANY**, a working visit to pump manufacturer (**KSP**) factory and some other manufacturers of mechanical equipment, the project feed of **BENGHAZI** city with water from the Man Made River project.
- **1995 ENGLAND**, a working visit to pump manufacturer (**WEIR**) factory and some manufacturers of other mechanical equipment, the project of feed Western villages from the Man Made river project .
- **1991 DENMARK**, attend technical meetings by **KRUGER AS** company consultant of contractor for the project concerning operation of pumping stations and sewage treatment plant, the third-phase project of **AJDABIYA** sewage system.
- **1988 DENMARK / NETHERLANDS**, undergo examination for mechanical equipment manufacturers, which are valves and sewage pumps (centrifugal and screw), the third-phase project of **AJDABIYA** sewage system.
- **1987 DENMARK**, to attend the inspection and testing of mechanical equipment, which are valves, generators and steel works, the third-phase project of **AJDABIYA** sewage system.
- **1985 AUSTRIA**, to attend tests asbestos cement pipes with a length of about 10 kilometers of **ETERNIT** Company the manufacture of pipes, the third-phase project of **AJDABIYA** sewage system.