



Mohamed Ghazy, Ph.D

Assistant professor of Sanitary and Environmental Engineering

Profession	: Civil and Environmental Engineer
Date of Birth	: 1973
Nationality	: Egyptian
Email	: Mohamed.Ghazi@bhit.bu.edu.eg OR Moh_rabee27@yahoo.com
Membership in Professional Societies	<ul style="list-style-type: none">- German Association for Water, Wastewater and Waste (DWA)- International Water Association (IWA)- Egyptian Syndicate of Professional Engineers

Key Qualifications

Dr. Ghazy is a civil and an environmental engineer. In June, 2006 he was awarded by DAAD to complete his PhD study in Germany. He has enrolled in "the **Institute of Sanitary and Environmental Engineering, Technische Universität Braunschweig**", **Germany** in October 2007 and has been accomplished his study his research project "Sustainable Sewage Sludge Management Based on Life Cycle Assessment Approach " in **September 2011**.

He was awarded by **InWEnt (GIZ)** to enroll in the "*Advanced Professional Training Program in Integrated Management of Water Supply and Wastewater Disposal*", which held in Germany from November 2002 to July 2003.

Since 1999, Dr. Ghazy is working at the department of Civil and Environmental Engineering, Faculty of Engineering, Benha University, Egypt. He is sharing in teaching different courses in the fields of Civil and Environmental Engineering.

Dr. Ghazy has a distinguished professional experience in the field of Civil and Environmental Engineering projects/process studies including: Technical proposals, Preparation of master plans, Feasibility studies, Design and Tender documents preparations for water supply networks, water treatment plant, sewerage systems as well as wastewater treatment plants.

Dr. Ghazy gained also a good experience in the field of Environmental Management, especially, Water and wastewater management projects such as: Integrated sanitation and sewerage improvement projects, Low cost sewerage systems, Sewage sludge management, Design for environmental and recycling management, Resource orientated sanitation and Life Cycle assessment (LCA).

Dr. Ghazy participated in the design of many projects in different countries such as Saudi Arabia, Yeman, Syria, Albania, Algeria, Qatar, Libya and Egypt.

Dr. Ghazy was also working as a design engineer with *Hamza Associates Consulting Engineers* (HA), Egypt (from 1999–2005), as senior design engineer/deputy project manager with **Dr.**

Ahmed Abdel-Warith Consulting Engineers (AWW), Egypt (from 2005–2007), as a project manager and consultant engineer at **Khatib & Alami (K&A)**, Egypt (from 2011–2014). He is also working as a part time consulting water expert with the *consulting consortium of WYG International Ltd* "multidisciplinary consultants", England, CID Consulting Egypt and IPA Energy + Water Economics, Egypt in the Institutional Capacity Building of the Egyptian Water and Wastewater Regulatory Agency (EWRA) Phase II project (SAAAP/2011/EWRAlI/SER/01) funded by the European Union (from 2012–213).

From 2014 to now, **Dr. Ghazy** is currently working as a project manager with **Saudi Consulting Services SAUDCONSULT**, Saudi Arabia.

Education

Ph.D.	Environmental and Sanitary Engineering, Institute of Sanitary and Environmental Engineering, Technische Universität Braunschweig – Germany– 2011
M. Sc.	Sanitary and Environmental Engineering – Benha University – Egypt – 2005
B. Sc.	Civil Engineering – Benha University – Egypt – 1997

Additional Training / Courses

August – Sep 2009	International E-Learning course on the organizations development for the water and sanitation utilities, InWEnt (GIZ), Germany
May – August 2005	Advanced Courses in Statistical Analysis at the Institute of Statistics, Cairo University, Egypt
August – Sep 2003	International Management Training Course, Cologne, Germany
Nov 2002 – Aug 2003	Advanced Professional Training Course in “Integrated Management of Water Supply and Wastewater Disposal”, Mannheim, Germany
May – August 2002	Complete the Training Programme of Water Parameters Analysis in Water Pollution Division, National Research Centre, Egypt

Distinction and Awards

2007	– Competition scholarship from DAAD for PhD degree at Technische Universität Braunschweig, Germany (2007–2011)
2002	– Competition scholarship from InWEnt (GIZ) for Advanced Professional Training, Mannheim, Germany (11/2002 to 9/2003)
1977	– Certificate of excellence with honors and first graduates of B.Sc.of Civil Engineering, Benha University, 1997

Teaching Experiences

Nov. 2011 – Present	<ul style="list-style-type: none"> - Assistant professor of Sanitary and Environmental Engineering, Civil Engineering Department, Faculty of Engineering, Benha University, Egypt. - Sharing in the teaching of the following courses: <ul style="list-style-type: none"> Undergraduates students - Water Treatment and Supply - Wastewater Treatment and Disposal - Environmental Pollution and Control - Sanitary Engineering Postgraduates students - Advanced Water Treatment - Advanced Wastewater Treatment
- Nov. 2005-2011	- Assistant Lecturer, Sanitary and Environmental Engineering, Civil Engineering Department, Faculty of Engineering, Benha University, Egypt.
- 2000 – 2005	- Demonstrator, Sanitary and Environmental Engineering, Civil Engineering Department, Benha University, Egypt.

Field of Research Interests

Main fields:	Environmental Engineering: <ul style="list-style-type: none"> - Sewage Sludge Management - Resource Orientated Sanitation - Nutrient Removal and Recovery - Wastewater Treatment and Disposal Management 	Sustainable Development: <ul style="list-style-type: none"> - Life Cycle Assessment - Life Cycle Costing - Design for Environmental and Recycling Management
Other fields:	<ul style="list-style-type: none"> - Water Treatment and Supply - Drinking Water Distribution Systems - Sewage Collection and Disposal System. 	

Employment History

Duration	Employer / Post
- 2014 – Now	<ul style="list-style-type: none"> - Projects manager, Saudi Consulting Services SAUDCONSULT, Riyadh Central Region, Saudi Arabia.
- 2011 – 2014	<ul style="list-style-type: none"> - Assistant professor of Sanitary and Environmental Engineering, Civil and Environmental Engineering Department, Faculty of Engineering, Benha University, Egypt. - Part time Environmental Consultant Engineer at Khatib and Alami (KA), Egypt - Part time Water Expert in the <i>Institutional Capacity Building of the Egyptian Water and Wastewater Regulatory Agency (EWRA) Phase II</i> European Union project (from 2013 to 2014).
- 2007-2011	<ul style="list-style-type: none"> - PhD Fellow at the Institute of Sanitary and Environmental Engineering,

	Technische Universität Braunschweig, Germany
- 2005 - 2007	- Assistant Lecturer , Civil and Environmental Engineering Department, Benha University, Egypt
- 1999-2005	- Teaching Assistant at the Department of Civil and Environmental Engineering, Benha University, Egypt.
- 2002 - 2003	- Fellow Engineer , MVV Company (Consultants and water engineers), Mannheim, Germany
- 1998 - 1999	- Military Service

Publications Last 5 years

Papers:	<p>M. R. Ghazy, A. M. Abdallah, M. A. Basiouny and M. A. S. Saad; (2015). <i>“Life Cycle Assessment of Flexible Pavement Construction”</i>. British Journal of Applied Science & Technology, 12(1): 1-17, 2016, Article no.BJAST.20620.</p> <p>Mahmoud A Elsheikh, Mohamed E Basiouny, Mohamed R Ghazy, Rania M Ibrahim; (2014). <i>“Soil Aquifer Treatment for Additional Upgrading of Wastewater Effluent”</i>. Engendering research journal (ERJ), faculty of engineering , Minoufiya university, 2014</p> <p>M. R. Ghazy, M. Haikal, A. Mekawy and H. Saleh; (2013). <i>“Technical and Economical Evaluation of Conventional and Membrane Filtration Systems for Water Treatment in MENA”</i>. Accepted as oral presentation on the proceeding of the International Conference on Environmental Science and Technology, ICOEST2013, June 18-21, 2013, Cappadocia, Turkey.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). <i>“Economic and Environmental Assessment of sewage sludge treatment process application in Egypt”</i>. International water technology Journal, IWTJ, vol.1-Issue2, September 2011.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). <i>“Economical and Environmental Assessment of Sewage Sludge Management Options: A Case study”</i>. Proceeding of the International Symposium Re-Water Braunschweig, Braunschweig, Germany, 21 - 22 November 2011.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). <i>“Economical and Environmental Assessment of Sewage Sludge Management Options: A Case study”</i>. Proceeding of the International Symposium Re-Water Braunschweig, Braunschweig, Germany, 21 - 22 November 2011.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). <i>“Sewage Sludge Management in Egypt: Perspectives towards Climate Change Mitigation”</i>. Oral Presentation of the Proceeding of Exceed and DAAD Summer School for Global Warming and Sustainable Water Management, am 17- 20. November 2011, TU Braunschweig, Germany.</p>
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	<p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). “<i>Economic of Sewage Sludge Treatment Processes and Area of Application in Egypt</i>”. Proceeding of the 15th International Water Technology Conference, IWTC 15 2011, Alexandria, Egypt, 28–30 may 2011.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2011). “<i>Sewage Sludge Management in the MENA-Region: Perspectives towards Climate Change Mitigation</i>”. Proceeding of the international conference of Water and Climate Change in the MENA-Region: Adaptation, Mitigation and best Practices, Berlin, Germany, 28–19 April, 2011.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2010). “<i>Application of Anaerobic Digestion for Sewage Sludge Stabilization in Egypt: Economic Aspects and Area of Application</i>”. Preceding of the 15th European Biosolids and Organic Resources Conference, Seminar, and Exhibition, the ROYAL ARMOURIES, LEEDS, UK, 15 – 17th November 2010.</p> <p>M.Ghazy, T.Dockhorn and N.Dichtl; (2009). “<i>Sewage Sludge Management in Egypt: Current Status and Legal Framework</i>”. Oral presentation presented to DAAD International Workshop for Water, Wastewater and the Environment–Urgent Issues for Sustainability (26th October – 3rd November 2009), Braunschweig, Germany.</p> <p>M.R.Ghazy, T.Dockhorn and N.Dichtl; (2009). “<i>Sewage Sludge Management in Egypt: Current Status and Perspectives towards Sustainable Agricultural Use</i>”. Proceeding of the International Conference on Environmental Sciences and Engineering (ICESE 2009), Amsterdam, the Netherlands. 387–395. http://www.waset.org/journals/waset/v57.php.</p> <p>M. E. Basiouny, T. A. Elmitwalli and M.R.Ghazy; (2008). “<i>Modelling of Trihalomethane in Benha Water Supply Network, Egypt</i>”. Proceeding of International Water Technology Conference, IWTC12 2008, Alexandria, Egypt. 991–1004.</p> <p>M. E. Basiouny, T. A. Elmitwalli and M.R.Ghazy; (2008). “<i>Formation and Modelling of Trihalomethane in New Benha Water treatment plant, Egypt</i>”. Proceeding of International Water Technology Conference, IWTC12 2008, Alexandria, Egypt. 121–139.</p>
Books:	<p>Mohamed Ghazy, 2010 “<i>Studying of Disinfection By-Product in Water Supply System: Formation Evaluation and Mathematical Modeling</i>” Book, VDM Verlag Dr. Müller, Germany, ISBN: 978-3-639-24916-3.</p> <p>Mohamed Ghazy, 2011 “<i>Sustainable Sewage Sludge Management in Egypt Based on Life Cycle Assessment</i>” Institute of Sanitary and Environmental Engineering, Technische Universität Braunschweig, Germany</p>

Attained International Workshop, Symposiums last 5 years

2013	First Egyptian – German Workshop on “Sustainable Water Technologies” Feb. 18 th –20 th , 2012, Giza, Egypt.
2012	Summer School on Climate Change and Global Water Problems November 04–11, 2012, Braunschweig, Germany.
2011	3 th International Symposium, Re-Water Braunschweig“ at 21. und 22. November 2011, Braunschweig, Germany
2011	Exceed and DAAD Summer School for Global Warming and Sustainable Water Management, am 17– 20. November 2011, TU Braunschweig, Germany.
2011	15 th International Water Technology Conference, IWTC 15 2011, Alexandria, Egypt, 28–30 may 2011.
2011	Water and Climate Change in the MENA-Region: Adaptation, Mitigation, and Best Practices, An International Conference, April 28–29, 2011, Berlin, Germany.
2010	15 th European Biosolids and Organic Resources Conference, Seminar, and Exhibition, the Royal Armouries, Leeds, UK, 15 – 17 th November 2010.
2010	15 th International Symposium on Water, Wastewater, Waste, and Energy is held during the international trade fair for environmental technology (IFAT), München, Germany, September 12–17th, 2010.
2010	The international Meeting for DAAD Alumni from Developing Countries (June 27 –4 th July 2010). Microalgae, A sustainable recourse for energy and chemical feedstock, scientific aspects and industrial application. Technische Universität Braunschweig, Braunschweig, Germany.
2010	Wasserforum für die EMA-Region“ am 11–12. März 2010 , Hamburg, Germany.
2009	2 nd International Symposium on Wastewater-Recycling, Braunschweig, Germany, November 4–6th, 2009.
2009	DAAD International Water Expert Seminar, ‘Water, Wastewater and the Environmental, Urgent Issues for Sustainability’. Technische Universität Braunschweig, Germany, 26 th October – 3 rd November, 2009.
2009	The International Conference on Environmental Sciences and Engineering (ICESE 2009), Amsterdam, The Netherlands, September 23–25 th , 2009.
2008	InWEnt Regional Alumni and Partner Conference, Alexandria, Egypt, October 29 th – November 1 st , 2008.
2008	15 th International Symposium on Water, Wastewater, Waste, Energy is held during the international trade fair for environmental technology (IFAT), München, Germany, May 5–9 th , 2008.
2007	1 st International Symposium on Wastewater-Recycling, Braunschweig, Germany, October 10–12 th , 2007.
2006	10 th International Water Technology Conference (IWTC 2006), Alexandria, Egypt, March 23–25 th , 2006.

Professional and Consulting Experience

Company: Saudi Consulting Services SAUDCONSULT, Saudi Arabia. www.saudconsult.com

Duties:
(2014–
Present)

Working as infrastructure **Project manager** and **Design leader** for the design of the following projects:

- **Studies, Design, Supervision of Housing Projects in Eastern Region, KSA**

- The project involves the Master planning and the detailed design of Infrastructure works for complete site of area about 6,132,150 sq. m located in **Al-Ahsa** Governorate, in the eastern province, KSA. The work is including Rough grading, Roads, Storm drainage system, Potable water distribution, Wastewater collection system, Irrigation system, Electrical Power, telecommunication system and landscaping design
- I was responsible for the review of final detailed design and tender documents of storm drainage system, sanitary wastewater collection and treatment, potable and Fire water distribution systems and Irrigation system.

Client: Ministry of Housing, KSA

Consultant: SAUDCONSULT - AS&P Albert Speer & Partner GmbH.

- **Design, Supervision of King Faisal Air Academy in Majmaah (KFAA) (2013–2015)**

- The Project involves all studies and engineering design for all the facilities and utilities of King Faisal Air Academy (KFAA) at the new site in Majmaah governorate on an area about 314. 7 sq. km. The project involves the Master planning and the detailed design of all Infrastructure works of a complete site including the following main facilities:
 - **Technical area** (admin area, academic wing, cadet wing, flying wing, logistic wing)
 - **Service facilities** (Support facilities, Security wing, Air police wing , Outdoor rifle range)
 - **Operational Infrastructures** for Airfield area
 - **Residential area** (Family housing, VIP housing , Bachelor housing)
 - **Hospital area** (hospital building, service building, hospital housing)
- The scope includes the detailed design of all Infrastructure works for the complete project facilities including Rough grading, Roads and parking network, Storm drainage system, Fire and Potable water distribution system, Wastewater collection system , Wastewater treatment plant , Irrigation system, Electrical Power, telecommunication system and landscaping design
- I was responsible for the Project management of all Infrastructure works including coordination of design teams, communication management with all Stakeholders and associates and coordination with utilities agencies. Also I was design leader of all wet utilities of the project including the Storm

drainage system, Fire and Potable water Networks, Water treatment plant, Wastewater collection networks, Wastewater treatment plant and Irrigation networks.

Client: Ministry of Defense–Royal Saudi Air Forces, KSA

Consultant: SAUDCONSULT - BURNS & McDonnell

• **Design, Supervision of King AbudAlah Medical City (KAMC), Bahrain**

Project Description: (2015–Now)

- The project involves the study of master planning, supervision and detailed design for all project and Infrastructure works for the complete site of King Abdullah medical City (KAMC) located in the Southern Governorate of Kingdom of Bahrain for the Arabian Gulf University (AGU)
- The development will consist of approximately one million square meters (one square kilometer). The Medical City will be a multiple phased mixed use development catering to the academic health centers.
- AGU's University of Health Sciences will develop and benefit through the creation of a new academic medical campus, research facilities and the facilities necessary to support and enhance the hospital, the university and public; both within Bahrain and the GCC region.
- The master plan shall provide for a two phased development of the hospital.
 - Phase 1 included for a 246 Bed Academic Medical Centre, Retail Store, Commercial Laundry, Warehouse Storage, Initial accommodation of staff housing, On-grade Parking and Infrastructure to support the initial start-up of the Academic Medical Centre.
 - Phase 2 is expected to expand to a total of 500 Beds, Medical School, Research Laboratories, Clinical Research Centre, Conference Centre, Medical Hotel, Rehabilitation Centre Hospital, Residents support functions inclusive of Recreation Centre, Nursery, Retail Centre, Residents Health Centre, Mosque and parking to serve the expansion.

Responsibility

- I am responsible for the project management of all Infrastructure utilities of the project including coordination of design teams, communication management with all Stakeholders and associates and coordination with utilities agencies. Also I am the design leader of the planning and design of project wet utilities including Storm drainage system, Fire and Potable water Networks, Water storage and pumping Facilities, Wastewater collection networks, Wastewater treatment plant and Irrigation system.

Client: Arabian Gulf University (AGU), KSA

Consultant: SAUDCONSULT - TAHPI - Meinhard

Company: CID Consulting Egypt , <http://cidconsulting.com>

<p>Duties: (2013– 2014)</p>	<ul style="list-style-type: none"> • Institutional Capacity Building of the Egyptian Water and Wastewater Regulatory Agency (EWRA) Phase II (SAAP / 2011 / EWRAII / SER / 01) (E2427C) <ul style="list-style-type: none"> – The project aims to contribute the development of sustainable world class water and wastewater services in Egypt, through providing the development basis for the Egyptian Water Regulatory Agency to become an effective economic and drinking water quality regulator. – I was a local Water Expert sharing the foreign Expert to carry out in the following tasks: <ul style="list-style-type: none"> ○ Benchmarks related to water quality for the licensing program ○ Supporting the EWRA in developing a procedure for amending the legislative framework for water and wastewater quality. ○ Assisting EWRA staff in preparing reports comparing water quality across companies and from period to period based ○ Undertaking field training for EWRA staff in carrying out drinking water quality audits (sampling, analysis, reporting of data, treatment works, distribution networks) ○ Updating, in co-operation with EWRA, the Egyptian Code of Practice (maintenance and operations) for EWRA ○ Preparing guidance to EWRA on the auditing and evaluation of regulated companies' drinking Water Safety Plans and associated risk assessments <p>Client: <i>European Union – Egyptian Water Regulatory Agency, Egypt</i> Consultant: WYG International Ltd, England, CID Consulting Egypt and IPA Energy + Water Economics.</p>
<p>Company: Khatib & Alami (KA) , Egypt , http://www.khatibalami.com</p>	
<p>Duties (2011– 2014)</p>	<p>Working as an Environmental consultant and Infrastructure project manager with a design teams to conduct the design and technical support works of Wet Infrastructure utilities of different projects are implemented in several Countries.</p> <p>1. Wastewater Treatment Plants:</p> <ul style="list-style-type: none"> • Almadina Wastewater Treatment Plant, KSA: Study and Design a wastewater treatment plant of a capacity of 200,000 m³/d (third phase). The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project. The applied system is a wastewater tertiary treatment by conventional biological activated sludge. • Sludge Solar Drying of Almadina Wastewater Treatment Plant, KSA: Study and design of a mechanical sludge solar drying system for Almadina wastewater treatment plant of a capacity of 200,000 m³/d. The scope includes primary design and system alternatives evaluation, detailed design and preparation the tender documents. • Tabuk Wastewater Treatment Plant, KSA: Design a wastewater treatment plant of a capacity of 360,000 m³/d (4X90, 000 m³/d). The scope includes primary

design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project. The applied system is a wastewater tertiary treatment by conventional biological activated sludge.

- **Tabuk Typical Wastewater Treatment Plants, KSA:** Design wastewater treatment plants of capacities (5,000, 10,000 and 15,000 m³/d). The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project. The applied system is a wastewater tertiary treatment by conventional biological activated sludge.
- **Baquba Wastewater Treatment Plant, IRAQ:** Design of Wastewater treatment plant with a capacity of 80,000 m³/day, using Extended Aeration activated sludge system. The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project.
- **ALshaeef Wastewater Treatment Plants, KSA:** Design a wastewater treatment plant of a capacity of 25,000 m³/d. The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project. The applied system is a wastewater tertiary treatment by Membrane Bio Reactor (MBR) System
- **Tabuk Wastewater Treatment Plant Upgrading, KSA:** Design, review of wastewater treatment plant upgrading from capacity from 30,000 m³/d to 90,000 m³/d capacity. The scope include the evaluation of current situation, suggestion and evaluation of different alternatives for wastewater treatment systems considering cost, effluent reuse and sludge management. Preparation the tender documents of the project.
- **Second Airport wastewater treatment plant, Jedda, Saudi Arabia:** The scope includes the technical support for **Oрасom Construction (OC) Company** for the bid analysis of Jedda Second Airport wastewater treatment plant (capacity of 500,000 m³/day). The scope includes detailed design and preparation the detailed BIQ of the project based on the client tender documents.

2. Water Treatment Plants:

- **Beish Dam Water Treatment Plant Upgrading, KSA:** Study and Design review of water treatment plant upgrading from capacity of 60,000 m³/d to 150,000 m³/d capacity. Evaluation of bidder's technical offers and technical support during the construction supervision.
- **Tandah Dam Water Treatment Plant, KSA:** Study and Design of water treatment plant with a capacity of 80,000 m³/day (Aseer, KSA), using Ultrafiltration (UF) system and activated carbon filtration system. The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project.
- **Tathleth Water Treatment Plant, KSA:** Study and Design of water treatment plant with a capacity 80,000 m³/day (Aseer, KSA), using reveries osmosis (RO) system and activated carbon filtration system. The scope includes primary design and treatment system alternatives evaluation, detailed design and preparation the tender documents of the project.

	<p>3. Fire , Potable water Distribution and Wastewater collection system Projects:</p> <ul style="list-style-type: none"> • Water Supply for the Hail villages, KSA: Design of the water supply transmission lines for more than 1000 villages in Hail zone, KSA. The scope includes the evaluation of current situation as well as planning, preparing detailed designs and tender documents for the project.
<p>Company: AWW Consulting Engineers, Egypt. http://www.aaw.com.eg</p>	
<p>Duties (2005–2007)</p>	<p>Working as a Senior Project Engineer with a design teams to conduct the design of the following projects:</p> <ul style="list-style-type: none"> • Integrated Sanitation and Sewerage Infrastructure Project (ISSIP) Feasibility Study & Preliminary Design <ul style="list-style-type: none"> – The Integrated Sanitation & Sewerage Infrastructure Project is financed by the WB and launched for providing sanitation services a large-scale rural sanitation programme entitled the Integrated Sanitation & Sewerage Infrastructure Project (ISSIP). ISSIP aims at developing the rural sanitation sector in towns and villages in three Northern Governorates in the Delta region: Gharbiya, Kafr-el-Sheikh and Beheira. The Project will provide improved wastewater collection and treatment systems in targeted clusters to help reduce the pollution in the surrounding water canals and drains. pilot projects for low-cost sanitation systems and solid waste management in three residential clusters in the three Governorates is envisaged. The scope involves <ul style="list-style-type: none"> ○ Assessment of Existing Sanitation and Solid Waste Management Component ○ Strategic Sanitation Plan and Solid Waste Pilot Plant ○ Study Tour to similar projects in Brazil ○ First Phase Implementation Plan for Sewerage System ○ Feasibility Study for the Project & for First Phase Implementation ○ Project Implementation Manual ○ Bidding Documents for First Phase Packages <p>Client: World Bank – Holding Company for Water and Wastewater Consultant: Dr. Ahmed Abdel Warith - Consulting Engineers (AAW) in association with ARCADIS Euroconsult (Netherlands)</p>
<p>Company: Hamza Associates (HA), Egypt. http://www.hamza.org</p>	
<p>Duties (1999–2005)</p>	<p>Working as a Design / Project/ Senior project Engineer with a design teams to conduct the design and technical support works of Wet Infrastructure utilities of different projects are implemented in several Countries.</p> <p>1. Water and Wastewater Treatment Plants:</p> <ul style="list-style-type: none"> • Development of the international security force (ISF) camp, (LEKHWEYA), state of Qatar: Design and tender study according to design build specification of the

water and wastewater treatment plant to serve the CAMP, each of a capacity of 10,000 m³/day.

- Industrial wastewater treatment plants: Planning, design and preparing the tender documents of the industrial wastewater treatment plants for El Safa and El Shourouk city, Egypt.

2. Fire , Potable water Distribution and Wastewater collection system Projects:

- **Development of the international security force (ISF) camp, (LEKHWEYA), state of Qatar:** Design and tender study according to design build specification of the water supply, fire fighting, storm water system and sewerage networks to serve the CAMP.
- **Fush -Kruje city-** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Albania
- **Peshkopi city-** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Albania
- The design of wastewater drainage systems for the following villages of Sehera, Balakes, Kom Ashfeen and Namoual in the area of Qalyubiya governate, Egypt.
- The redesign, preparing of shop drawings and contractor support for the wastewater drainage networks of new Damietta city – Client, Arab contractors company, Egypt.
- The redesign, preparing of shop drawings and contractor support for the water supply and wastewater drainage networks for the storage area in 6th October city – Client, Arab contractors company, Egypt.
- **Planning of El-Ogela Fishing Port, Libya:** planning and design the water supply, storm water and wastewater disposal networks– National Marine Investment Organization– Libya.
- **Planning of El-Zewayteena Fishing Port, Libya:** planning and design the water supply, storm water and wastewater disposal networks, National Marine Investment Organization, Libya.
- **CAP IVI-Wilaya de Mostaghanem city -** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Algeria.
- **MADAGH-Wilaya de Oran city-** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Algeria.
- **MOSCARDA -Wilaya de Tlemcen city-** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Algeria.
- **TADLEST -Wilaya de Adrar city-** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Algeria.
- **Burum Port -** Planning, design and construction supervision of water supply, storm water and sewerage systems, Republic of Yemen.
- **Khalfout Port -** Planning, design and construction supervision of water supply,

	<p>storm water and sewerage systems, Republic of Yemen.</p> <ul style="list-style-type: none"> • Ameria Free Zone – Planning, design and construction supervision of water supply and sewerage project – General Authority for Investment, Alexandria, Egypt. • Port Said East Port Bunkering Terminal – Planning, design and construction supervision of water supply, storm water and sewerage systems, Mashreq Petroleum Company, Egypt. • Kadco project in Toshka – Planning, design and construction supervision of water supply, storm water and sewerage systems, Toshka, Egypt. • Mubark Pumping Station – Planning, design and construction supervision of water supply, storm water and sewerage systems, TOSHKY, Egypt • Study and design of upgrading water and wastewater systems for the district of El agoza, Egypt. • Health improvement assembly – Planning, design and construction supervision of water supply, storm water and sewerage systems, Cairo, Egypt. • DAMIETTA Container Terminal Develop – Planning, design and construction supervision of water supply, storm water and sewerage systems, Damietta Container Cargo Handling Company, Damietta, Egypt. • EL Sokhna Container terminal – Planning, design and construction supervision of water supply, storm water and sewerage systems, Ministry of transport, North EL Sokhna, Egypt. • Hammamat Pharoun – Planing, design of water supply and sewerage system– South Sinai – Sina Curtain Tourism Company, Egypt. <p>3.Integrated Planning:</p> <ul style="list-style-type: none"> • Planning and design the rehabilitation and improvement of north Cairo sewage networks (Shobera– Sharbia – El Zawia Elhamra city) – The General Authority of Drainage for Great Cairo, Cairo, Egypt. • The strategic planning and conceptual design for the water supply and wastewater systems of the following cities – El Dommieen, El Sawaleh, Abnoud and El Hisameia, Egypt.
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Languages

	Reading	Speaking	Writing
Arabic		Mother Tongue	
English	Excellent	V. Good	Excellent
German	Good	Good	Good

Reference Persons

<p>Germany:</p>	<p>Prof. Dr.-Ing. Norbert Dichtl Head of the Institute of Sanitary and Environmental Engineering Technische Universität Braunschweig, Germany Pockelsstraße 2a - D-38106 Braunschweig Phone: +49-(0)531-391-7935 Fax: +49-(0)531-391-7947 E-Mail: n.dichtl@tu-braunschweig.de</p>	<p>Prof. Dr.-Ing. Thomas Dockhorn Deputy Head of the Institute of Sanitary and Environmental Engineering Technische Universität Braunschweig, Germany Pockelsstraße 2a - D-38106 Braunschweig Phone: +49-(0)531-391-7937 Fax: +49-(0)531-391-7947 E-Mail: t.dockhorn@tu-braunschweig.de</p>
<p>Egypt:</p>	<p>Prof. Dr. Eng. Mahmoud Abdel Shafy Ibrahim Prof. of Sanitary and Environmental Engineering, Faculty of Engineering, University of Tabuk , Saudi Arabia PO. Box 741, 71491 Tabuk, Saudi Arabia E-mail: mshafy2@yahoo.com</p>	<p>Prof. Dr. Eng. Mohamed Bassueny Prof. of Sanitary and Environmental Engineering, Dean of Faculty of Engineering, Benha University, Egypt E-mail: m.basiouny11@yahoo.com</p> <p>Prof. Dr. Eng. Hazem Ibrahim Mostafa Saleh Prof. of Sanitary and Environmental Engineering, Cultural Counselor and Head of Educational Mission, Washington, USA E-mail: hsaleh@eecous.net</p>