

## الملخص العربي للسيرة الذاتية

الإسم	محمد نزيه عبدالله
الوظيفة الحالية	دكتور مهندس باحث / مدرس بمعهد الهندسة الصحية و البيئية المركز القومي لبحوث الإسكان و البناء مستشار تحكيم دولي (عضو نقابة مستشاري التحكيم الدولي بمحافظة الجيزة) ٢٠١٣
الجنسية	مصرى
تاريخ الميلاد	١٩٧٠/٧/٥
سنوات الخبرة	١٩ سنة
العنوان الحالى	المركز القومي لبحوث الإسكان و البناء, معهد الهندسة الصحية و البيئية ٨٧ شارع التحرير- الدقى- الجيزة, ص.ب. ١٧٧٠ القاهرة - ج.م.ع
عمل	عمل
منزل	٧٠٤٦ ش ١٧ متفرع من ش ٩- المقطم - القاهرة
تليفون	عمل ٢٥١٦٦٨٩٨ (٢٠٢)
منزل	٢٥٠٤١٥٦٠ (٢٠٢)
فاكس	٢٥١٧٠٩٢٥ (٢٠٢)
بريد إلكترونى	mohnazih@gmail.com
<b>التعليم و المؤهل الدراسى</b>	
الدكتوراة	دكتوراة فى الهندسة المدنية/ كلية الهندسة / جامعة القاهرة (٢٠٠٨)
الماجستير	ماجستير الهندسة المدنية/ هندسة صحية و بيئية كلية الهندسة - جامعة القاهرة (٢٠٠٠)
البكالوريوس	بكالوريوس الهندسة المدنية كلية الهندسة - جامعة عين شمس (١٩٩٣)
التقدير العام	جيد جدا
تقدير المشروع	جيد جدا - مشروع التخرج فى الهندسة الصحية و البيئية
التخصص العام	هندسة مدنية/ هندسة صحية و بيئية
التخصص الدقيق	خبير أعمال المياه و الصرف الصحى



- المركز القومي لبحوث الإسكان ١٩٩٧ - الآن  
و البناء  
معهد الهندسة الصحية و البيئية  
(دكتور مهندس باحث/مدرس)
- تطوير و تطبيق الأنظمة منخفضة التكاليف لمعالجة مياه الصرف الصحي للقرى المصرية
- تقييم أنظمة المعالجة المركزية و اللامركزية فى محطات معالجة مياه الصرف الصحي
- إعداد و تنفيذ الدورات التدريبية فى مجال المياه و الصرف الصحي و الإدارة البيئية
- الإشتراك فى الإشراف على الإختبارات المعملية لجودة المياه
- تنسيق العديد من المشروعات البحثية فى مجال المياه و الصرف الصحي
- تصميم محطات معالجة مياه الصرف الصحي للمدن و القرى الجديدة
- التنسيق و التسويق للأعمال الإستشارية التى يقوم بها المركز على مستوى القطاعين الحكومى و الخاص

### بيان الخبرات السابقة فى مجال الإستشارات الهندسية لأعمال المياه و الصرف الصحي

القيام بالعديد من الأعمال الإستشارية لصالح الجهات و الهيئات و المكاتب الإستشارية المختلفة

منذ عام ١٩٩٣ و حتى الآن:

- | المهام المسندة   | الجهة   |
|--|---|
| <ul style="list-style-type: none"> <li>▪ تصميم الأعمال الصحية و التنسيق لكافة الأعمال الكهروميكانيكية شاملة أعمال المياه و الصرف الصحي و الكهرباء و التكييف لمشروع فندق سويس أوتيل شرم الشيخ</li> <li>▪ تصميم الرسومات التنفيذية للعديد من مشروعات شبكات المياه و الصرف الصحي شاملة دراسة و التقييم المالى للقطاعات</li> </ul>   | <ul style="list-style-type: none"> <li>➤ الشركة العربية للهندسة و المقاولات - كايروماتيك<br/>(خبير أعمال المياه و الصرف الصحي)</li> </ul>   |
| <ul style="list-style-type: none"> <li>▪ إعداد التصميمات و مستندات طرح العطاء و دراسات الجدوى لأعمال البنية الأساسية (شبكات المياه و الصرف الصحي) و الدراسات البيئية للعديد من المشروعات الممولة من هيئة دانيدا و هيئة كير الدولية و بنك الإستثمار الألمانى.</li> <li>▪ إعداد التقارير الفنية لأعمال المياه و الصرف الصحي</li> <li>▪ إعداد تقارير التقييم البيئى (EIA)</li> <li>▪ دراسة و إعداد التصميمات و مستندات طرح العطاء لتطوير و توسيع محطة تنقية مياه مدينة أبو سمبل و الممول من هيئة دانيدا</li> <li>▪ تصميم شبكات الصرف الصحي للعديد من القرى (الحمراية - بياض العرب - الأزهرى - العزب) لشركة مياه الشرب و الصرف الصحي بمحافظة بنى سويف</li> </ul> | <ul style="list-style-type: none"> <li>➤ المكتب الإستشارى الهندسى إنفيروكونسلت لدراسات البيئة و البنية الأساسية<br/>(خبير أعمال المياه و الصرف الصحي و الدراسات البيئية)</li> </ul> |
| <ul style="list-style-type: none"> <li>▪ إعداد التصميمات و مستندات طرح العطاء لأعمال البنية الأساسية (شبكات المياه و الصرف الصحي) للعديد من القرى السياحية</li> <li>▪ إعداد التقارير الفنية لأعمال المياه و الصرف الصحي</li> <li>▪ تصميم محطات معالجة المخلفات الصناعية لمصانع ٩ - ٩٩ - ٩٩٩ بطلوان</li> <li>▪ تصميم شبكات الصرف الصحي للعديد من القرى و المدن ضمن مشروعات الهيئة القومية لمياه الشرب و الصرف الصحي</li> </ul>  | <ul style="list-style-type: none"> <li>➤ مكتب مصر كونسلت لدراسات البيئة و البنية الأساسية</li> </ul>  |
| <ul style="list-style-type: none"> <li>▪ إعداد التصميمات و مستندات طرح العطاء لأعمال البنية الأساسية (شبكات المياه و الصرف الصحي) و كذلك محطات المعالجة للعديد</li> </ul>  | <ul style="list-style-type: none"> <li>➤ مركز بحوث و دراسات الهندسة المدنية بكلية الهندسة - جامعة القاهرة</li> </ul>  |

- من القرى (الهجارسة – الكوامل بحرى و أولاد غريب – الغريزات – عراية أبو الذهب – عراية أبو عزيز) ضمن مشروع سوهاج للتنمية الريفية و الممول من البنك الدولى
- تقييم و مراجعة التصميم و المستندات للمشروعات و تنسيق الإشراف على التنفيذ
- إعداد و تنفيذ الدورات التدريبية فى مجال المياه و الصرف الصحى و الإدارة البيئية ضمن الدعم الفنى و المؤسسى خلال مشروع سوهاج للتنمية الريفية و الممول من البنك الدولى
- إعداد التصميمات و مستندات طرح العطاء لنظام تجميع و نقل و معالجة مياه الصرف الصحى منخفض التكاليف للقرى الفقيرة بمحافظة بنى سويف

➤ هيئة كير الدولية ببنى سويف

**Curriculum vitae**  
**Dr.-Eng. Mohamed Nazih Abdallah**

**Personal data**

<b>Name</b>	Mohamed Nazih <u>Abdallah</u>
<b>First Name</b>	Mohamed
<b>Title</b>	<ul style="list-style-type: none"> <li>▪ Consultant Engineer, Water, Sanitation and Environmental, PhD</li> <li>▪ Assistant Professor, Water, Wastewater, Sanitation, and Environmental Engineering Expert, Institute of Sanitary and Environmental Engineering, Housing and Building National Research Center (HBNRC), Cairo, Egypt</li> <li>▪ Executive Manager and Member of Board, EnviroConsult Engineering Consulting Firm, Cairo, Egypt (freelance Consultation)</li> </ul>
<b>Major Subject</b>	Water, Wastewater, Sanitation, and Environmental Engineering Expert
<b>Career Level</b>	Professional
<b>Total Experience Period</b>	19 years
<b>Nationality</b>	Egyptian
<b>Date of Birth</b>	5 July 1970
<b>Civil Status</b>	Implemented
<b>Marital Status</b>	Married
<b>Children</b>	Two (one son and one daughter) Age: 3.5 and 1 years old

**Contact data**

<b>E-Mail</b>	<a href="mailto:mohnazih@gmail.com">mohnazih@gmail.com</a>
<b>Telephone</b>	<b>Office:</b> +2-02-2517-0925 / +2-02-2516-6898 <b>Home:</b> +2-02-2504-1560
<b>Mobile</b>	+2-0127-111-0795 / +2-0100-473-3704
<b>Fax</b>	+2-02-2517-0925
<b>Adress</b>	<b>Office :</b> Institute of Sanitary and Environmental Engineering, Housing and Building National Research Center (HBRC). 87 Tahrir Str., Dokki, Giza, P.O. Box 1770 Cairo, Egypt  <b>Home:</b> 7046 street no. (17), from street no. (9), Mokkatam, 11439, Cairo, Egypt

**Educational background**

Institution [ Date from - Date to ]	Degree(s) or Diploma(s) obtained:
Ain Shams University, Faculty of Engineering, Cairo, Egypt (1989 – 1993)	B.Sc. Civil Engineering Very good –Graduation Project (Water and Sanitation Engineering ) Very good degree
Cairo University, Faculty of Engineering, Cairo, Egypt (2000)	M.Sc. Environmental Engineering (Water and Sanitation Engineering)
Cairo University, Faculty of Engineering, Cairo, Egypt (2008)	Ph.D. Environmental Engineering (Water and Sanitation Engineering)

**Area of Expertise and Advanced Skills:**

- Integrated Water, Wastewater, and Sanitation Management
- Water and Wastewater Treatment Technologies
- Low Cost Sanitation Systems
- Water Desalination and Membrane technologies
- Water and Wastewater Hydraulic Modeling.
- Environmental Research and Studies.
- Consultancy Activities.
- Teaching and Training Activities.
- Feasibility Studies.
- Strategic Planning.
- Tendering Preparation and Evaluation.
- Contract and Project Management.
- Quality Control and Assurance.
- Scientific Research Activities.
- Business Development.
- Contract Negotiations.
- Client Liaison.
- Trouble Shooting and Problem Solving.
- Effective communication and negotiations skills
- Supervision and Leadership.
- Staff Training, Development and Team Building.
- Sustainable Development.
- Specialized Engineering Softwares.

## **Key qualifications:**

**Profession:** *Expert, Teacher, and Trainer*, Water and Wastewater

Management and Design, Environmental Studies, and Researches

- Teaching, Training and Research skills in Environmental and Sanitary Engineering including Applications on modern technologies in water and domestic, industrial anaerobic and aerobic wastewater treatment and water pollution control programs as well as application of cleaner production concept by in process, plant modifications, and end of pipe treatment in food, engineering, and agro-based industry sectors including environmental audit and impact management, development and evaluation of operation guidelines and procedures leading to process optimization.
- Eighteen experience in water, wastewater management and environmental studies freelance consultation including design, revision, planning, assessment, reporting, and supervision of different water, wastewater works (treatment, networks, storage ...etc.) including five years experience in Industrial Wastewater management and treatment comprising cleaner production, in plant/in process measures, and end of pipe treatment
- Twelve years experience in managerial activities and team leading in design, review, tender preparation, bid evaluation and construction, and ecological sanitation projects.
- Fourteen years experience in participation in preparation and production of water and wastewater codes and regulation for design and operation and maintenance processes.
- Twelve years of experience in Teaching/Training skills for Engineering/Environmental courses including giving problem solving sessions, answering questions, grading assignments and laboratory reports as well as assessment of graduation/ research projects as well as training needs and evaluation.
- More than ten years experience in ecological sanitation systems, water resources and water demand management, cost-effective sewage management concepts as well as management of wastewater reuse standards and technologies.
- Delivered training courses to engineers and technicians related to design, construction supervision and operation of water, domestic and industrial wastewater systems. All training courses were sponsored by financing agencies (*World Bank, GTZ, and CARE Projects*).
- Expert of Environmental facility for industry pollution abatement plans and measures including Environmental Impact Assessment (EIA) and management (EIM) of different projects.

- Has knowledge of computer applications for system design and cost analysis specially related to water and wastewater fields (*WaterCad and SewerCad,...etc*).
- Formulated construction, installation and operation and maintenance budgets including capital replacement accountants for water and wastewater projects.
- Member of several professional societies, including the Engineers Syndicate, and Sanitary Engineering Society.
- Author of several publications on water and wastewater treatment including dissemination of Research results.
  
- Variant technical, advising and managerial experiences via Participation in:
  - a. Preparation of Environmental Assessment Studies and Reports;
  - b. Technical evaluation of governmental projects (Social Fund Projects);
  - c. Community based projects including Environmental Awareness.
  - d. Preparation of socio-economic and environmental studies including data collection and reports preparation.
  - e. Design of different systems for industrial wastewater according to effluent characteristics.
  
- Design of water and wastewater networks, force-mains, pumping stations, irrigation networks, plumbing works, fire fighting, swimming pools, and water and wastewater treatment plants (i.e. water and wastewater industry in general). Tender documents study, appraisal, price analysis, and negotiation with suppliers and subcontractors at high level.

### **Training Skills:**

#### **Providing Training Courses: (as trainer)**

- "Water, Wastewater, Environmental Engineering, and Hydraulic Analysis and Modelling Courses" for junior and professional Engineers, *Housing and Building National Research Centre, HBRC, Cairo, Egypt*.
- "Technical training courses on Water and Wastewater Egyptian Codes of Practice", *Housing and Building National Research Centre, HBRC, Cairo, Egypt*.
- "Providing technical training courses within the Water and Wastewater Management Program conducted by GTZ for master planning units' engineers belonging to Water and Wastewater Holding Company WWHC and all its 16 affiliated companies. The courses include WaterCad and SewerCad Hydraulic Analysis and Modelling, *German Technical cooperation organization, GTZ in cooperation with Water and Wastewater Holding Company WWHC, 2009, Cairo, Egypt*.
- "Design and Planning of Water Networks & its Facilities", *Training Service of "Sohage Rural Development Project", funded by the World Bank, 2005, Sohag City, Egypt*
- "Computerised Software Application for Design and Planning of Water Networks and its Facilities", *Training Service of "Sohage Rural Development Project", funded by the World Bank, 2005, Sohag City, Egypt*



- "Environmental Management and Assessment", *Training Service of "Sohage Rural Development Project", funded by the World Bank, 2005, Sohag City, Egypt*
- "Application of Geographical Information System (GIS) for Infrastructure and Utilities-1 ", *Egypt Netherlands Cooperation Project "TRHUD", Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science" "ITC", 2003, Cairo, Egypt*
- "Application of Geographical Information System (GIS) for Infrastructure and Utilities-2 ", *Egypt Netherlands Cooperation Project "TRHUD", Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science" "ITC", 2004, Cairo, Egypt.*

**Attended Training Courses:** *(as trainee)*

- "Managing Non-Revenue Water, Part-1: Introduction Course NRW 1"  
*Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in collaboration with the Arab Countries Water Utilities Association (ACWUA), e-course, 2012.*
- "Membrane Technology for Saline waters, including Pre- & Post Treatment Fundamentals, Practice & Calculations"  
*German Desalination Society (DME), Essen, Germany, 2011.*
- "National Training of Trainers (TOT) Workshop on Local Elected Leadership"  
*UN-HBITAT Programme in association with Ministry of Egyptian Housing, Utilities and Urban Development, 2010, Egypt.*
- "Water Supply and Distribution Management"  
*Singapore Cooperation Programme in association with Singapore Ministry of Foreign Affairs, 2010, Singapore.*
- "Training of Trainer (TOT) for Water and Waster Infrastrcture Services"  
*Housing and Building National Research Centre, HBRC, 2009, Cairo, Egypt.*
- "Advanced Wastewater Management"  
*UNESCO-IHE in association with Egyptian Urban Training and Studies Centre (UTI), 2009, Cairo, Egypt.*
- "Cleaning Production Assessment Training of Egyptian Consultant – Capacity Building"  
*The Environmental Compliance Office (ECO) – Federation of Egyptian Industries (FEI), 2005, Cairo, Egypt.*
- "Effective Project Management Principals"  
*Egypt Netherlands Cooperation Project " TRHUD ", Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science" "ITC", 2004, Cairo, Egypt*
- "Domestic Wastewater Treatment Techniques"

*Japan International Cooperation Agency "JICA" , 2003, Kitakyushu City, Japan*

- "Project Cycle Management Participatory Planning"  
*IC-Net Limited Company, 2003, Kitakyushu City, Japan*
- "Non-Revenue Water Management II, and Water Leakage Detection"  
*Japan International Cooperation Agency "JICA", 2002, Nagoya City, Japan*
- "Technical Training Course of Water Leak Survey"  
*FUJI-TECOM Training Centre, 2002, Tokyo, Japan*
- "Geographical Information System (GIS) for Urban Planning and Administration"  
*Egypt Netherlands Cooperation Project " TRHUD "*  
*Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science" "ITC", 2001, Cairo, Egypt.*
- "Toefl Preparation Course for English Language"  
*Centre of Developing English Language Teaching, 2001, Ain Shams University.*

#### **Area of Research Interests:**

##### **Water:**

- Cost effective Surface Water Treatment Technologies
- Computer Based Hydraulic Modeling of Water Supply System
- Ground Water Quality and Contamination Control
- Ground Water Treatment

##### **Wastewater:**

- Integrated Wastewater Management
- Natural Wastewater Treatment Technologies
- Cost effective and Low cost Wastewater Treatment Technologies
- Wastewater Reuse
- Low Cost Eco-sanitation
- Control of Gas emission from Wastewater Treatment Systems
- Application of Waste-to- Energy Concept (Bio-gas from Waste/wastewater)
- Soil Aquifer Treatment Concept (SAT)

##### **Industrial Wastewater:**

- Industrial Wastewater Treatment Technologies
- Treatability Studies of Different Industrial Wastewater
- Cleaner Production Concepts for Industrial Wastewater Management

##### **Environmental:**

- Environmental Pollution Management (EIA/EMS/EMP)
- Soil Pollution Prevention Control
- Effect of Soil Contaminations on ground Water Pollution

#### **Professional background**

##### **Refere to the under mentioned table:**

## Professional Background

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
1997- Present	Cairo, Egypt	Housing and Building National Research Centre (HBRC), (Institute of Sanitary and Environmental Engineering).	Dr.-Eng. "Assistant Professor"/ Head of Environmental Pollution Department	<p><b><u>Main Tasks and Duties:</u></b> Teaching, Training, Scientific Research, Consultancy Services, Local and International Research Cooperation, Environmental Studies, Egyptian Codes Preparing, Quality Control Services and Tests, Scientific Committees, Performance Evaluation, and other related tasks to water, wastewater, sanitation, and Environmental Fields including the following activities:</p> <ul style="list-style-type: none"> <li>▪ Managerial activities of Environmental Pollution department including financial and administrative duties.</li> <li>▪ Assisted in teaching of Environmental, Sanitary and Hydraulic courses including giving problem Solving sessions, answering questions and grading assignments and lab reports.</li> <li>▪ Implementation of environmental research projects (Water/Wastewater treatment) including proposal preparation, scheduling, follow-up, execution and reporting.</li> <li>▪ Providing and Developing a technical training courses on Water and Wastewater Egyptian Codes</li> <li>▪ Participation as a member in scientific committees for preparing the Egyptian regulation codes of practice and policies:               <ul style="list-style-type: none"> <li>- "Operation and Maintenance of Wastewater Treatment Plant" code.</li> <li>- "Reuse of Treated Wastewater" code.</li> <li>- "Building Water and humidity Insulation" code.</li> </ul> </li> <li>▪ Participation as a member in Plumbing Works Special Inspector Approval committee.</li> <li>▪ Evaluation and quality control of the performance of existing water and wastewater treatment plants.</li> <li>▪ Evaluation of water pollution and pollution control for the water resources.</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
				<ul style="list-style-type: none"> <li>▪ Water quality control, analysis, tested, documents and evaluations reports.</li> <li>▪ All quality control tests required for ductile, caste iron, galvanized steel, plastic, vitrified clay...etc pipes according to Egyptian standards.</li> <li>▪ Water and wastewater laboratory analyses.</li> <li>▪ Training courses for environmental engineers, technicians, and water industry specialists.</li> <li>▪ Participation in preparing Geographic Information Systems (GIS) for new urban areas.</li> <li>▪ Execution supervision for plumbing, water and wastewater network</li> <li>▪ Consultancy Services related to wastewater system (collection, treatment and disposal) including design, monitoring, supervision.</li> <li>▪ Consultancy Services related to water system (collection, treatment and distribution) including design, monitoring, supervision.</li> <li>▪ Consultation concerning water and wastewater management including design, operation, and monitoring.</li> <li>▪ Preparing Municipal and Industrial water supply and sanitation assessment reports</li> <li>▪ Feasibility study and tender documents for wastewater treatment system to comply environmental regulation standards</li> <li>▪ Environmental studies including environmental impact assessment EIA and management studies for different projects.</li> <li>▪ Research projects serve the development of water and wastewater technologies for rural areas and small communities as a low cost tech.</li> <li>▪ Infrastructure and environmental feasibility studies in local provincial governorates as financed by the Egyptian Social Fund for Development.</li> <li>▪ Investigation of integrated low-cost sanitation systems and their</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
				<ul style="list-style-type: none"> <li>application</li> <li>▪ Develop and evaluation of water and wastewater treatment systems among urban and rural areas in several Egyptian Governorates.</li> <li>▪ Develop new technologies for low cost wastewater treatment and sustainable reuse for new communities and small villages in Egypt.</li> <li>▪ Developing and providing of training courses for environmental engineers, technicians, and water industry specialists.</li> <li>▪ Developing and providing training courses on water and sanitation systems, especially for low cost technologies in rural areas.</li> <li>▪ Development of new technologies for water and wastewater treatment especially low cost technologies.</li> <li>▪ Design of water and wastewater treatment plants.</li> <li>▪ Mathematical modelling of treatment processes.</li> <li>▪ Consultation concerning water and wastewater management including design, operation, and monitoring.</li> <li>▪ Business development for the department covering official and private sectors.</li> </ul>
<b>Freelance Consultation</b>				
<b>Since 1994 Freelance Consultation for different companies ( As Water &amp; Wastewater Management</b>	Egypt	North South Consultants Exchange Office <b>NSCE</b> In joint venture between General Organization for Physical Planning ( <b>GOPP</b> ) and United Nation Development Program ( <b>UNDP Habitat</b> )	Short-Term Environmental and BUS Expert	<ul style="list-style-type: none"> <li>▪ Environmental and Basic Urban Services (BUS) studies in Integrated and Participatory Slum Upgrading in Egypt (including Local Economic Development) for Abu Helal, Menia Governorate through Strategic Urban Planning for Small Cities Project in Egypt (GOPP / UN-HABITAT). Joint venture project between General Organization for Physical Planning (<b>GOPP</b>) and United Nation Development Program (<b>UNDP Habitat</b>).</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
and Environmental Expert)	Egypt	German Technical cooperation organization <b>GTZ</b>	Short-Term Technical and Training Expert	<ul style="list-style-type: none"> <li>Providing technical training courses within the Water and Wastewater Management Program conducted by <b>GTZ</b> for master planning units' engineers belonging to Water and Wastewater Holding Company WWHC and all its 16 affiliated companies. The courses include WaterCad and SewerCad Hydraulic Analysis and Modelling.</li> </ul>
	Egypt	The Cooperative for American Remittances to Europe, Cairo Office <b>CARE</b> international	Water and Sanitation Expert	<p><u>In Cooperation with EnviroConsult office</u></p> <ul style="list-style-type: none"> <li>Integrated Design of low cost decentralized system for rural area (four villages with population of 2000 to 6000 persons) and providing presentations of low-Cost wastewater management.</li> <li>Providing workshops in integrated low cost sanitation systems</li> <li>Study and post assessment of wastewater systems and providing solutions for upgrading and enhancement for the non-comply low-cost WWTPs</li> <li>Design of wastewater treatment plants in several villages in Beni Suef Governorate.</li> </ul>
	Egypt	United Nation Development Program <b>UNDP Habitat</b>	Water and Sanitation Expert	<ul style="list-style-type: none"> <li>Preparation of Strategic Urban Plans for Small Cities in Egypt for Basic Urban Service BUS (Water, Sanitation and Solid waste management) for the following cities: <ul style="list-style-type: none"> <li>- Shohadaa City, Monofeya governorate</li> <li>- Badary City, Asuit governorate</li> <li>- Badr City, Behira governorate</li> <li>- Maragha City and Monshaa City, Sohag governorate (as assistance for Dr. Hisham Abdel-Halim)</li> </ul> </li> </ul>
	Egypt	Danida – SDEM Component	Water and Sanitation Expert	<p><u>In Cooperation with EnviroConsult office</u></p> <ul style="list-style-type: none"> <li>Integrated Design of wastewater networks in several villages and cities in Aswan and Beni Suef</li> <li>Design of wastewater treatment plants in Behera governorate.</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
	Egypt	EnviroConsult Consulting Firm	Long-Term W&WW Expert/ Executive Manager ( <b>Partner and Member of Board</b> )	<ul style="list-style-type: none"> <li>▪ Managing the technical issues including preparation of technical and financial offers submitted to different organizations; design phase follow-up and review; tender documents; contractor evaluation and control the awarding process; and construction supervision management.</li> <li>▪ Deep experience in management and control of technical and financial issues required for managing a consulting firm (medium size enterprises)</li> <li>▪ Management and Technical Assistance Consultancy of Integrated Sanitation and Sewerage Infrastructure Project (ISSIP I) funded by World Bank including design and construction supervision for more than 200 rural villages in Egypt.</li> <li>▪ Technical Expert of the contract of consultancy services and execution supervision in water, wastewater and sanitation projects within for many villages in different governorates of Egypt belonging to National Organization for Potable Water &amp; Sanitary Drainage (NOPWASD).</li> <li>▪ Preparation of water and wastewater Master plan for Beni Suef Governorate via the development research and technological</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
<p><b>Since 1994</b> <b>Freelance</b> <b>Consultation</b> <b>for different</b> <b>companies</b> ( As Water &amp; Wastewater Management and Environmental Expert)  (Cont'd)</p>				<p>planning centre, Faculty of Engineering, Cairo University, within the framework of national master plans overall Egypt for all governorates in the field of water and wastewater funded and followed by Water and Wastewater Holding Company WWHC.</p> <ul style="list-style-type: none"> <li>▪ Design of shop drawings for several environmental works including the development of the program followed to study the tender documents, appraisal, installation, and monitoring of the project.</li> <li>▪ Develop and evaluation of Modern technologies for domestic/industrial wastewater treatment and waste management including the application of in process/in plant modification as an application of Cleaner Production (CP) concepts.</li> <li>▪ Participation in preparing technical and financial offers for industrial wastewater treatment systems for several factories to comply environmental regulation standards (e.g. Milles feuilles for sweets and ice-cream in Por Said city, Olive oil extractors in Al-Arish city, Shony technology company in 10th of Ramadan city and Egyptian diary and food stuff company"EDAFCO" in 10th of Ramadan city.)</li> <li>▪ Preparation of Final feasibility study and tender documents for EDAFCO factory wastewater treatment system to comply environmental regulation standards funded by Canadian International Development Agency "CIDA" in association with EEIF project in Egyptain Environmental Affairs Agency.</li> <li>▪ Participation in preparing Municipal and Industrial water supply and sanitation assessment reports for all Egyptain Markazs under project of National Water Resources Plan (NWRP) in the Ministry of Water Resources and Irrigation.</li> <li>▪ Review and assessment of the tender documents including design check, appraisal, price analysis, cost sheets preparation, and negotiation with suppliers and subcontractors.</li> </ul>
<p>Dr. Mohamed Nazih A.Allah   C.V. - 2012</p>				<p>Participated in several environmental and community based projects as financed by multi-donors as DANIDA, CARE, and private sector including planning for the business development.</p>



Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
<p><b>Since 1994 Freelance Consultation for different companies</b> ( As Water &amp; Wastewater Management and Environmental Expert)  (Cont'd)</p>		<p>EnviroConsult Consulting Firm (Continued)</p>		<ul style="list-style-type: none"> <li>▪ Detailed Engineering for Suez Gulf Wastewater (Domestic &amp; Industrial) Treatment Plant, 55,000 m3/day.</li> <li>▪ Consultant of Bni Suif Governorate for Wastewater projects at El Kom El Ahmar, Beni Haroon, El Maymoon, El Reyad , Biad El Arab, and El Ezab.</li> <li>▪ Managerial assignments for different design, review of water and wastewater projects as well as coordination for the construction supervision in different sites in Sohag and Beni Suef Governorates.</li> <li>▪ Participation in environmental study for Environmental Compliance Office program for different factories including assessment of existing situation of effluent treatment, proposal for in process and in plant modification as well as optimization and/or design of end of pipe treatment.</li> <li>▪ Business development activities at level of public and private sectors</li> <li>▪ Expert of water and wastewater projects for New Fayoum City, Ministry of Housing.</li> <li>▪ Expert in water and wastewater projects at Center of Civil Engineering Research and Studies, Faculty of Engineering, Cairo University.</li> <li>▪ Expert for CAR E Organisation, UN in water and wastewater for small communities.</li> <li>▪ Consultant of water and wastewater in many Resorts.</li> <li>▪ Preparation and Review of technical reports.</li> <li>▪ Preparation of feasibility studies for environmental projects.</li> <li>▪ Data collection for socio-economic, environmental and health studies.</li> <li>▪ Health education and environmental awareness for water uses and conservation.</li> <li>▪ Participation in preparation of EIAs reports.</li> <li>▪ Supervision for several water, wastewater works and time plan monitoring/updating.</li> </ul>
<p>Dr. Mohamed Nazih A.Allah   C.V. - 2012 <span style="float: right;">Page   15</span></p>				

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
<p><b>Since 1994</b> <b>Freelance</b> <b>Consultation</b> <b>for different</b> <b>companies</b> ( As Water &amp; Wastewater Management and Environmental Expert)  (Cont'd)</p>		<p>EnviroConsult Consulting Firm (Continued)</p>		<ul style="list-style-type: none"> <li>▪ Technical review of plans and tender documents.</li> <li>▪ Development of training manuals and programs.</li> <li>▪ Technical assistance to designated counterparts and governorate personnel and monitoring.</li> <li>▪ Low cost sanitation for different projects in Beni Suef Governorate</li> <li>▪ Providing training courses for integrated sanitation systems at low cost concepts</li> <li>▪ Management and design quality control and assurance</li> <li>▪ Project manager and general coordinator for several water and sanitation projects including data collection, studies, design, and supervision phases.</li> <li>▪ Several tradability studies with cooperation with the National Research Centre for different industrial wastewater.</li> <li>▪ Design of plumbing works and Infra-structure for several projects. (e.g. Zezenia city, El- Zohour city) and Universal Resorts in Sharm El-Sheikh, trouristics villas and residentail buldings).</li> <li>▪ Design of workshop drwings of water and wastewater networks for some projects in New-Cairo Zone</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
<p><b>Since 1994 Freelance Consultation for different companies</b> ( As Water &amp; Wastewater Management and Environmental Expert)</p> <p>(Cont'd)</p> <p><b>Since 1994 Freelance Consultation for different companies</b> ( As Water &amp; Wastewater Management</p>	Egypt	Civil Engineering Research and Studies Center, Faculty of Engineering, Cairo University <b>(CERSC)</b>	Technical, Research and Training W&WW Expert	<ul style="list-style-type: none"> <li>▪ Identification of Scope, Feasibility, Studies and Detailed Engineering Designs of Second Integrated Sanitation &amp; Sewerage Infrastructure Project (ISSIP2) funded by World Bank including design and construction supervision for more than 24 rural villages in Sohag Governorate, Egypt.</li> <li>▪ Preparation of water and wastewater Master plan for Beni-Suef Governorate within the framework of national master plans overall Egypt for all governorates in the field of water and wastewater funded and followed by Water and Wastewater Holding Company WWHC.</li> <li>▪ Technical Expert of the contract of consultancy services and execution supervision in water, wastewater and sanitation projects within for many villages in different governorates of Egypt belonging to Executive Organization of Greater Cairo and Alexandria Water &amp; Sewage (CAPOW).</li> <li>▪ Technical Expert of the contract of consultancy services and execution supervision in water, wastewater and sanitation projects within the Sohag Rural Development Project funded by World Bank.</li> <li>▪ Technical Expert of the contract of consultancy services and execution supervision in water, wastewater and sanitation projects Al-Azahary project and 800 mm trunk main waterline project funded by USAID.</li> <li>▪ Preparation and providing of water and sanitation training courses for engineers and technicians within the Sohag Rural Development project funded by World Bank</li> <li>▪ Design of water and wastewater networks and treatment plant</li> <li>▪ Evaluation and review of design, planning reports and tender documents for water and wastewater systems.</li> <li>▪ Providing training Courses in water, wastewater and waste management</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
	Egypt	Development Research & Technological Planning Centre, Faculty of Engineering, Cairo University <b>DRTPC</b>	Technical, Research and Training W&WW Expert	<ul style="list-style-type: none"> <li>Preparation of water and wastewater Master plan for Beni Suef Governorate via the development research and technological planning centre – Cairo University, within the framework of national master plans overall Egypt for all governorates in the field of water and wastewater funded and followed by Water and Wastewater Holding Company WWHC.</li> </ul>
	Egypt	Arab Consulting Engineers <b>ACE</b>	W&WW Consultant	<ul style="list-style-type: none"> <li>Technical consultant for design of water and wastewater works (concept, networks, and Desalination and treatment) of Marassi project in Sedi Abdel-Rahman, Alex. Owned by Emaar Egypt and technically managed by Turner international.</li> <li>Technical consultant for design of water and wastewater works of City Star- Sharm El-Sheikh, Egypt</li> </ul>
	Egypt	El-Nasr for Civil Works Contracting Company	W&WW Consultant	<ul style="list-style-type: none"> <li>Technical services for design and shop drawing for several Water and Wastewater projects</li> </ul>
	Egypt	Arab Contracting Company <b>(CAIROMATIC)</b>	Short-Term W&WW Expert	<ul style="list-style-type: none"> <li>Process engineer and coordinator for the design of the shop drawings and installation of the environmental works including water /wastewater networks and plants for Swissotel in Sharm El-Sheikh.</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
	Egypt	Misr Consult office	Long-Term W&WW Engineer	<ul style="list-style-type: none"> <li>▪ Participated in preparation of preliminary and final reports.</li> <li>▪ Participation as one of a team work to provide a consultancy services related to the project "Support for Environmental Assessment and Management" (SEAM), mainly, to assist in preparing an Environmental Impact Assessment for several tourist projects at Hurghada city in the red sea coast. This project was funded by Britain's Overseas Developments Administration and implemented by the Egyptian Environmental Affairs Agency (EEAA) through the Technical Office for Environmental (TCOE) and ENTEC. UK. Ltd.</li> <li>▪ Participation in tender document for industrial wastewater treatment. (e.g. industrial treatment, fiber recovery and water recycling Project for Middle East paper company "SIMO")</li> <li>▪ Preparation of design drawings of several tourists villages in hurghada and sharm El-Shikh cities (e.g. Palm Beach Resort, Namaa Golf Resort...etc.) includes: plumbing works, water and wastewater networks, elevated and ground water tanks, pumping stations, forcemains, piping for kitchen, laundry, boiler, swimming polls, fountains, ...etc.</li> </ul>
	Egypt	Misr Consult office	Long-Term W&WW Engineer	<ul style="list-style-type: none"> <li>▪ Participation as a team member in preparation of Environmental Studies for Tabia Pumping Station.</li> <li>▪ Participation as a team member in design of Industrial Wastewater Treatment Plants for industrial factories (9- 99- 999) in Helwan.</li> <li>▪ Design of water and wastewater networks.</li> <li>▪ Design of plumbing works for several residential buildings.</li> <li>▪ Design of compact water and wastewater treatment plants.</li> <li>▪ Design of irrigation networks.</li> <li>▪ Design of Ground and Elevated tanks and design of integrated sanitary works for tourist villages.</li> </ul>

Date from - Date to	Location	Company	Occupation/Position	Assigned Duties Description
	Egypt	Talaat-Imam Consulting office	Water& Wastewater Engineer	<ul style="list-style-type: none"> <li>▪ Design of water and wastewater networks for El-Nobareya city.</li> <li>▪ Design of pumping stations.</li> <li>▪ Design of water and wastewater networks for many villages in Upper Egypt region.</li> </ul>

**Language skills:** (1 - excellent; 5 - basic)

Language	Spoken	Reading	Reading/ Comprehension
Arabic	1	1	1
English	1	1	1

**Computer and Software Skills:**

- Application of Hydraulic Modelling Software's (WaterCad and SewerCad) for water and wastewater networks analysis, modelling and design
- Environmental application of GIS for water and wastewater management concept.
- Software application in Civil/Environmental Engineering and working with spreadsheets
- Autocad (Latest Versions)
- Microsoft Office (Word, Excel, and PowerPoint- Latest Versions)
- Microsoft Project for planning and time scheduling
- Data base application programs
- Presentations Softwares
- Internet and mail skills
- Online Work-grouping and Networking

**Membership of professional bodies:**

- **Affiliations and Association Memberships:**
  - Member of International Water Association (IWA)
  - Member of Japanese International Cooperation Alumni (JICA)
  - Member of The Arab Countries Water Utilities Association (ACWUA)
  - Member of Egyptian Engineering Syndicate;
  - Member of Egyptian Association of Civil Engineers;
  - Member of Egyptian Environmental Engineering Society.
  - Member of Egyptian Society of Plumbing Engineers.
  - Member of Filtration Separation Magazine.
- **Committees Memberships:**
  - Member of the Egyptian Code of Practice Committee "Operation and Maintenance of Wastewater Treatment Plant Code of Practice".
  - Member of the Egyptian Code of Practice Committee "Reuse of Treated Wastewater Code of Practice and Guidelines".
  - Member of the Egyptian Code of Practice Committee "Building Water and humidity Insulation".
  - Member of the Egyptian Code of Practice Committee "Design and Construction of Desalination Water Treatment Plants".
  - Member of the Egyptian Code of Practice Committee "Reuse of Wastewater Treatment Plant Sludge in Building Construction".
  - Member of the Egyptian Code of Practice Update Committee "Design and Construction of Wastewater Treatment Plants and Pumps Stations".
  - Member of Plumbing Works Special Inspector Approval Committee.
- **Aluminies Memberships:**
  - Singapore Cooperation Programme (SCP) Aluminis.
  - Japanese International Cooperation Agency (JICA) Aluminis.

- **Magazines Memberships:**
  - Member of Filtration Separation Magazine.
  - Member of Water & Wastewater International Magazine (WWI).
- **Scientific Discussion Group and Networks Memberships:**
  - Member of Science, Technology and Innovation (STI) for Development in Africa, discussion group.
  - Member of MENA-Water Region Water Resources and Wastewater Network.

#### **Scholarships, Distinctions and Awards:**

- Scholarship for Training Courses in “Membrane Technology for Saline waters, including Pre- & Post Treatment Fundamentals, Practice & Calculations”, German Desalination Society (DME), Essen, Germany, 2011.
- Scholarship for Training Courses in “Water Supply and Distribution Management”, Singapore Cooperation Programme in association with Ministry Of Foreign Affairs (Singapore), 2010, Singapore.
- Scholarship for Training Courses in “Advanced Wastewater Management”, UNESCO-IHE in association with Egyptian Urban Training and Studies Centre (UTI), 2009, Cairo, Egypt.
- Scientific award for research paper “Alternative Sanitation Systems in Rural Egypt”, Regional Arabian Conference “Joint between Urban and –rural”, 2005, Cairo City, Egypt, ***“this paper was selected and awarded among the most innovative 3 papers presented in this conference”***
- Scholarship for Training Courses in "Domestic Wastewater Treatment Techniques", Japan International Cooperation Agency "JICA" *and Kitakyushu International Techno-Cooperative Association "KITA"*, 2003, Kitakyushu City, Japan
- Scholarship for Training Courses in "Non-Revenue Water Management II, and Water Leakage Detection", Japan International Cooperation Agency "JICA" , 2002, Nagoya City, Japan
- Scholarship for Training Courses in "Technical Training Course of Water Leak Survey", FUJI-TECOM Training Center , 2002, Tokyo City, Japan
- Scholarship for Training Courses in "Project Cycle Management Participatory Planning", IC-Net Limited Company, 2003, Tokyo City, Japan.

#### **Some Selected Attended Training Courses (International/National):**

- “Membrane Technology for Saline waters, including Pre- & Post Treatment Fundamentals, Practice & Calculations”, German Desalination Society (DME), Essen, Germany, 2011.
- “National Training of Trainers (TOT) Workshop on Local Elected Leadership”, UN-HBITAT Programme in association with Ministry of Egyptian Housing, Utilities and Urban Development, 2010, Egypt.
- Water Supply and Distribution Management”, Singapore Cooperation Programme in association with Singapore Ministry of Foreign Affairs, 2010, Singapore.
- “Training of Trainer (TOT) for Water and Waster Infrastructure Services”, Housing and Building National Research Centre, HBRC, 2009, Cairo, Egypt.
- “Advanced Wastewater Management”, UNESCO-IHE in association with Egyptian Urban Training and Studies Centre (UTI), 2009, Cairo, Egypt.



- "Cleaning Production Assessment Training of Egyptian Consultant – Capacity Building", The Environmental Compliance Office (ECO) – Federation of Egyptian Industries (FEI), 2005, Cairo, Egypt.
- "Effective Project Management Principals", Egypt Netherlands Cooperation Project " TRHUD ", Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science "ITC", 2004, Cairo, Egypt
- "Domestic Wastewater Treatment Techniques", Japan International Cooperation Agency "JICA" and Kitakuysu International Techno-Cooperative Association "KITA", 2003, Kitakuysu City, Japan
- "Project Cycle Management Participatory Planning", IC-Net Limited Company, 2003, Kitakuysu City, Japan
- "Non-Revenue Water Management II, and Water Leakage Detection", Japan International Cooperation Agency "JICA", 2002, Nagoya City, Japan
- "Technical Training Course of Water Leak Survey", FUJI-TECOM Training Centre, 2002, Tokyo, Japan
- "Geographical Information System (GIS) for Urban Planning and Administration", Egypt Netherlands Cooperation Project " TRHUD ", Urban Training and Studies Institute "UTI" in cooperation with International Institute for Aerospace Survey and Earth Science "ITC", 2001, Cairo, Egypt.
- "Toefl Preparation Course for English Language", Centre of Developing English Language Teaching, 2001, Ain Shams University.

#### **Some Selected Attended Conferences/Seminars/Symposiums/Workshops:**

- Water Berlin International Fair-2011, Berlin, Germany, 2011.
- "National Training of Trainers (TOT) Workshop on Local Elected Leadership" *UN-HBITAT Programme in association with Ministry of Egyptian Housing, Utilities and Urban Development, 2010, Egypt.*
- 7th International Engineering Conference (IEC 2010)", Cairo/Sharm El-Sheikh, 2010, Egypt
- "Road to Energy Efficient and Environmental Friendly Affordable Construction System) workshop, Egyptian Green Building Council, Cairo, 2009, Egypt
- 14th International Conference on Potable Water Management and Water Treatment Technologies (Aqua-Tec 2009)", 2009, Cairo, Egypt
- 13th International Water Technology Conference, (IWTC 2009), Hurghada, 2009, Egypt
- 6th International Engineering Conference (IEC 2010)", Cairo/Sharm El-Sheikh, 2008, Egypt
- HBRC Symposium on Low Cost WW Treatment, organized by Habitat, UNDP, April 2006
- 10th International Conference on Potable Water Management and Water Treatment Technologies (Aqua-Tec 2005)", 2005, Cairo, Egypt
- Scientific Conference of Water Treatment Technology and its Application (Water-Tec 2005)", Egyptian Water Association, 2005, Cairo, Egypt
- 30th International Symposiums, W062, 2004, Paris, France
- 9th International Conference on Potable Water Management and Water Treatment Technologies, (Aqua-Tec 2004)"

- Anaerobic Treatment of Wastewater and Option of Effluent Use in Irrigation Agriculture Symposiums, National Research Centre in cooperation with Wageningen University, 2003, Cairo, Egypt
- Urban Development in Arid Regions and Associated Problems Symposiums, Ministry of Public Works and Housing, 2002, Riyadh, Saudi Arabia
- International Symposium on Low Cost Wastewater Treatment and Reuse, National Research Centre (NRC) in association with IHE Institute at DELFT University and with Wageningen University, Netherlands, 2001, Cairo, Egypt
- 7rd International Conference on Potable Water Management and Water Treatment Technologies (Aqua-Tec 2001), 2001, Cairo, Egypt
- 6th International Conference on Potable Water Management and Water Treatment Technologies (Aqua-Tec 2000), 2000, Cairo, Egypt
- 2nd Environment-99 Conference and Environmental Management and Technologies, 1999, Cairo, Egypt.
- 3rd International Conference on Potable Water Management and Water Treatment Technologies (Aqua-Tec 97), 1997, Cairo, Egypt
- 2rd International Conference on Potable water Management and Water Treatment Technologies, Aqua-Tec 96, Cairo Dec. 19th – 21st 1996.
- 1st Environment-96 Conference and Environmental Management and Technologies,, 1996, Cairo, Egypt.

#### **Thesis, and Some Selected Scientific Publications**

- Sohair Abo Elaa, Hisham S. A.Halim, and M.Nazih, "Pollution Control and Waste Minimization of Chemical Products Industry, A case Study of Polymers Production Industry"  
International Conference on Environmental Science and Tecknology, Faculty of Engineering – Mansoura University, Mansoura/Sharm El-Sheikh, 2010.
- Ezzat Abdel Shafi, Hisham S. Abdel Halim, Mohamed H.Mostafa, Mohamed Nazih (2009) "Anaerobic Domestic Wastewater Treatment using Fixed Film Reactor as a Low-Cost Treatment Alternative"  
Thirteenth International Water Technology Conference, 13 IWTC 2009 Hurgada, Egypt
- Ezzat Abdel Shafi, Hisham S. Abdel Halim, Mohamed H.Mostafa, Mohamed Nazih (2008) "Anaerobic Domestic Wastewater Treatment, Using Dual Stage Fixed Film Reactor", Faculty of Engineering, Cairo University.
- Ezzat Abdel Shafi, Hisham S. Abdel Halim, Mohamed H.Mostafa, Mohamed Nazih (2008) "Anaerobic Low Strength Domestic Wastewater Treatment using Dual Stage Fixed FilmReactor, Effect of Organic loading Rate", Azhar Engineering Magazine, Azhar University.
- M.Nazih, Walid Abdel-Halim, Hisham S. A.Halim, and Sohair Abo Elaa, (2008) " Pollution Control and Waste Minimization of Chemical Products Industry, a case Study of Polymers Production Industry"  
6th International Engineering Conference, 6th IEC, Faculty of Engineering – Mansoura University, Mansoura/Sharm El-Sheikh, 20 – 23 March 2008
- Walid Abdel-Halim, Hisham S. A. Halim and M. Nazih (2005) "Alternative Sanitation systems in rural Egypt"

Regional Arabian Conference “Joint between Urban and –rural”, Dec. 15-18, 2005, Cairo, Egypt. ***"this paper was selected and awarded among the most innovative 3 papers presented in this conference"***

- Hisham A. Halim, Walid Abdel-Halim, and M.Nazih (2004) "Selection and Evaluation of Appropriate Sanitation Systems in Rural Egypt, Case Study in Sohage Governorate, Upper Egypt"  
30th International Symposiums – W062/2004 , 16 to 17 Sep., 2004 – Paris, France
- M.Nazih (2002) "Using of Sandy Soil Layers for Domestic wastewater Treatment" Urban Development in Arid Regions and Associated Problems Symposiums" Ministry of Public Works and Housing, Saudi Arabia, (2002).
- M.Nazih (2001) "Wastewater Treatment by Percolation Through Land Layers" Cairo University Engineering Magazine, 2001

**Cirtificates, and References:**

*Available Upon Request*