Position Title	**Water and Wastewater Specialist**	
Name of Expert:	Tarek Ismail Sabry	
Date of Birth:	08 September 1968	
Country of Citizenship/Residence	Egyptian	

Education:

2003	**Fulbright Scholar** at Civil, Construction, and Environmental Engineering Department, Iowa State University, USA.
1999	**Ph.D.** in Environmental Engineering. Ain Shams University, Egypt in collaboration with Van Hall Int., leeuwarden, Netherlands (channel system)
1993	**M.Sc.** in Sanitary Engineering, Ain Shams University, Cairo, Egypt
1990	**B.SC.**, in the Civil Eng., Ain Shams University, Cairo, Egypt: Distinction with honor degree- **Top 1%**

Employment record relevant to the position:

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
1990 to present	**1. Professor of Sanitary and Environmental Engineering** Ain Shams University, Public Works Department, Cairo, Egypt. **2. Technical advisor for Four former ministers:** *6/2015- 9/2015* Technical advisor for the minister of scientific research 2/2013-7/2013 Technical advisor for the minister of water and wastewater utilities 1/2002 – 2/2003 Technical advisor for the minister of Housing and Utilities & Urban Communities 7/2000 - 8/2001 Technical advisor for the minister of State for Environmental Affairs **3. Participating in the assessment for tracking country-level outcomes in water &Sanitation sector with World Bank:** - IEG Case Study Mission with World Bank: Water &Sanitation sector between Oct 26-Nov3, 2016, Egypt - World Bank Water Global Practice Baseline Assessment, Aguaconsult, Cooks Shipyard, Wivenhoe, UK, 2018. **4. Participating in consultation works with State Secretariat for Economic Affairs SECO in Switzerland in introducing Sewage Sludge Management in Egypt especially with the option of sludge reuse in biogas. Consultation work has been done through contract with the following consultant firms:** - "Ecopsis": in preparing proof of concept and concept note, June-Sept 2018. - "EBP and Ecopsis": in preparing the	Egypt	- Lead studies and research in the field of water and wastewater Engineering; - Give technical assessment in the planning and implementation of different water and wastewater projects and give advising solutions to any observed problems; - Design and follow up water and wastewater projects in Egypt and abroad. - Develop environmental action plans and impact assessments of different projects;

Feasibility Study of renewable energy production in WWTP in Egypt, June-December 2020

5. **Cooperating with EBP consulting firm for the completion of the Potable Water Management Programme PWMP (Implementation Phase 1 and 2).** The contract between the main consultant (EBP) and Swiss Federal Department of Foreign Affairs, March 2019- Present.

6. **UC's owner and consultant in the water and wastewater projects with the following key qualifications:**

- Over 35 years of a strong background in sanitary and environmental engineering aspects especially in the field of water and wastewater treatment plants and infrastructures
- Certified as EIA consultant from EEAA since 2018
- Certified consultant in the hydraulic design of water and wastewater networks and treatments from the Egyptian Engineering syndicate since 2005.
- Wide experience in preparing studies in the environmental impact assessment for many projects.
- Good experience in working with international consultant engineering firms specializing in the field of environmental engineering projects.
- Specialize in the low-cost Decentralized wastewater treatment technologies.
- Participated into preparing the feasibility studies and master plans (regional planning) for water and wastewater systems into different governorates in Egypt.
- Good experience in working with the NGOs in many projects in the rural Egypt.

Reference:

- Dr. Sayed Ismail, the deputy minister of housing for infrastructure Affairs since Dec 2019.

Mob.: +201094335561
sayed.ismail@mhuuc.net

- Prof. AbdelKawi Khalifa, former Minister of water and wastewater utilities

Mob.: +201200000034
Abdelkawi.khalifa@eng.asu.edu.eg

- Prof. Sherif Hamad, former Minister of scientific research

Mob.: +201126833331
sherif.hamad@eng.asu.edu.eg

- Prof. Enas Abo Taleb, The former chairman of the Egyptian Environmental Affairs Agency (EEAA)

Mob.: +201009978026, +201022344055

Membership in Professional Associations and Publications:

- Member of the Egyptian Code Committee for the preparation and updating of the Wastewater Treatment Code, by Decree No. 339 of the year 2025.
- Member of the Examination Committee for obtaining the title of Consultant in Water and Wastewater Networks and Plants at the Engineers Syndicate since 2024.
- Member of the Egyptian code of practice for water and wastewater networks: 2024- present.
- Member of the Egyptian code of practice for wastewater collection and treatment in the Egyptian rural villages since 2015.
- Member of the pipeline material selection committee, Ministerial decree number 541year 2018.
- Member of evaluation committee for new treatment technology for Wastewater and drain water, Ministerial decree number 598 year 2018.
- Member of the water and wastewater research committee in the Academy of Scientific Research and Technology.

Language Skills:

English: Speaking-excellent; reading-excellent; writing-excellent

Arabic: Speaking- Native; reading- Native; writing- excellent

Award

- Faculty of Engineering at Ain Shams University has been awarded accreditation certificate from National Authority for Quality Assurance and Accreditation of Education (NAQAAE) on 2014 during the period of my heading the faculty accreditation unit.
- Egyptian Award of year 2008 for my distinguished environmental researches from Academy of Scientific Research and Technology.
- My invention "USBR" in wastewater treatment has been chosen to be one of the best 10 Egyptian inventions in 2008 by the STDF and University of Texas at Austin through Egypt Technology Commercialization Program contest (IC^2 Institute)
- Royal Academy of Engineering in England with STDF have selected me to attend 'Leaders in Innovation Fellowships programme 2018/2019 LIF call 5' in London between March 2 and March 16.
- Awarding Third Place in the final Pitch Session in the Royal Academy of Engineering's- Leaders in Innovation Fellowships (2018/19). The selected innovation was my innovation in Zero_Energy_Compact_Unit (ZECU) for wastewater treatment in rural areas.
- Author of a chapter in an international book in the field of low-cost wastewater treatment technologies. The publisher: NOVA Publishers. The Book title:

  Advances in Environmental Research, Volume 10. ISBN: 978-1-61761-895-6
- Applied Research Grant from Center of Excellence for Water from AUC (US-Aid) with the title of: Sustainable Low-Cost Solution for Decentralized Sanitation System in Rural Egypt. The grant totals $ 215,000 (2024).
- STDF – LIF II Program. Grant, from Science and Technology Development Fund (STDF), to conduct one-year research project entitled " Zero Energy Compact Unit (ZECU) for Wastewater Treatment in Rural Communities" The grant totals EGP 529,000, (2021).
- STDF – National Challenges Program (STDF-NCP) grant, from Science and Technology Development Fund, to conduct research project entitled " Innovative system using fabric filters for waste water treatment in small communities" The grant totals $130,000. (2015)
- Applied Science grant from Science and Technology Development Fund to conduct research project entitled "Compact low-cost wastewater treatment plant for energy recovery and effluent reuse in irrigation". The grant totals $120,000. (2010)
- U.S.-Egypt Joint Science and Technology has awarded me a grant to conduct the joint research project with USA entitled "Demonstration of Modified Septic Tank for Rural Wastewater Treatment in Egypt". The grant totals $59,892. (2004)
- Binational Fulbright commission has awarded me a research scholarship at Iowa State University, Iowa state, USA. The grant period was 9 months. (2003)
- Ministry of Education in Egypt has awarded me a grant for PhD at Van Hall Institute, Netherlands. (1996-1999)
- Consultant certificate in the hydraulic design of water and wastewater networks and treatment since 2005 from the Engineers Syndicate in Egypt.

Adequate experience for the Assignment: (SELECTED PROJECTS)

Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
Many WTP and WWTP design projects have been designed between 2017 and present, including: ▪ Detailed Design & Typical drawings ▪ Hydraulic modelling ▪ Tender documents including: specification; BOQ	**Name of assignment or projects:** Wastewater Treatment & Reuse of the following plants: ▪ El Robeky WWTP plant for the tannery wastewater 24,000 CMD Two-stages AS technology Badr City, Cairo. ▪ Package #9 (Al Khobar) WWTPS_total capacities 320,000 CMD_Carousel_KSA, Long-term O&M (LTOM) Contracts for Sewage Treatment Plants. ▪ Package #7 (Al Ahsa) WWTPS_total capacities 458,000 CMD_Carousel_KSA, Long-term O&M (LTOM) Contracts for Sewage Treatment Plants. ▪ Houd Nageh_9000 CMD_ SBR technology_El Sharkia Governorate. ▪ Zefta_20,000 CMD_ AS technology_El Gharbia Governorate. ▪ Sonbat_20,000 CMD_ SBR technology_El Gharbia Governorate. ▪ Nahtay_10,000 CMD_ AS technology_El Gharbia Governorate. ▪ Shershaba_5,000 CMD_ AS technology_El Gharbia Governorate. ▪ Baklola_18,000 CMD_ SBR technology_El Gharbia Governorate. ▪ Al A'lakey_40,000 CMD_ AS technology_Aswan. ▪ Dabyba_10,500 CMD_ Oxidation Ponds technology_Upper Egypt Project ▪ El Ashraf El Baharia_40,000 CMD_ Oxidation Ponds technology_Upper Egypt Project ▪ Keman_28,500 CMD_ Oxidation Ponds technology_Upper Egypt Project ▪ Sam hood_69,000 CMD_ Oxidation Ponds technology_Upper Egypt Project Water Treatment plants: ▪ Edfu water plant in Aswan 30,000 m^3/day ▪ Khor El Zag in Aswan 550 l/sec ▪ 5 water treatment plants in Abu El Resh in Aswan 900 m^3/hr. ▪ Water treatment plant in Meet Khamees, Mansoura_102000 m^3/day ▪ Water treatment plant in El Sedk, Port Said governorate 300 m^3/hr **Year:** Since 2017 **Location**: Egypt and KSA. **Client:** Ministry of Housing and NWC in KSA. **Main project features:** Planning, design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and elaborate Tender Documents for the water and wastewater treatment plants. The project objectives are to prepare design drawings for water and wastewater treatment and reuse Preparing tender documents for the construction of the works, including: Instruction to Tenderers; Conditions of Contract; Specifications; tender Drawings; Bill of Quantities; and Construction Cost Estimates.
▪ Strategic Plan for water supply system ▪ Hydraulic modelling of the future network, lifting stations for the transmission lines, tanks and its locations and managing the available water sources for each region	**Name of assignment or project:** Master planning and modelling of water supply networks in Jazan, Najran, and Al Baha regions **Year:** 2022-present **Location**: KSA **Client:** Ministry of Environment, Water & Agriculture, kingdom of Saudi Arabia **Main project features:** Planning, design, and Hydraulic modelling. **Position held:** Team Leader **Activities performed:** The project objectives are to calibrate the modelling of the existing network and planning and modelling of the future water supply system, and preparing Design Reports for the Water networks of Jazan and Najran , and Al Baha Regions and their 34 Governorates.
▪ Master Plan for water supply system ▪ Hydraulic modelling of the future network, lifting stations for the transmission lines, tanks and its locations and managing the available water sources	**Name of assignment or project:** Master planning and modelling of water supply networks in Aswan City **Year:** 2020-present **Location**: Aswan, Egypt **Client:** Ministry of Housing **Main project features:** Planning, design, and Hydraulic modelling and detailed design. **Position held:** Team Leader **Activities performed:** The project objectives are to propose different network projects to improve water pressure and quantity at some deprived areas in Aswan city. The work involved planning and modelling of the proposed water supply systems, and preparing detailed design for the Water networks and tender documents.

▪ Strategic Plan for wastewater collection system ▪ Hydraulic modelling of the future network, pumping stations, forcemain, and wastewater treatment plants and estimate the potential wastewater flow up to the target year.	**Name of assignment or project:** Master planning and modelling of wastewater collection and treatment system in Jazan, Najran, and Al Baha regions **Year:** 2022-present **Location**: KSA **Client:** Ministry of Environment, Water & Agriculture, kingdom of Saudi Arabia **Main project features:** Planning, design, and Hydraulic modelling. **Position held:** Team Leader **Activities performed:** The project objectives are to calibrate the modelling of the existing network and planning and modelling of the future wastewater collection system, and preparing Design Reports for the wastewater collection networks of Jazan, Najran, and Al Baha Regions and their 34 Governorates.
▪ Detailed Design & Typical drawings ▪ Hydraulic modelling ▪ Tender documents including: specification; BOQ	**Name of assignment or project:** Sewer networks of south Amman, Al Dholil, Madaba project, The Hashemite kingdom of Jordan **Year:** 2017 **Location**: Jordan **Client:** Ministry of water and irrigation water authority **Main project features:** Planning, design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and elaborate Tender Documents for the sewage collection system and pump stations in South Amman, Al Dholil, Madaba regions. The total pipeline length of the project was around 800 km. The project objectives are to prepare design drawings for system facilities, gravity sewers and trunk line, including Sewer pipeline drawings, Sewer profiles, Typical drawings, and House connection, etc. Preparing tender documents for the construction of the works, including: Instruction to Tenderers; Conditions of Contract; Specifications; tender Drawings; Bill of Quantities; and Construction Cost Estimates.
▪ Strategic Plan ▪ Hydraulic modelling of the future network, lifting stations for the transmission lines, tanks and its locations and managing the available water sources for each region	**Name of assignment or project:** Water supply networks in Al-Baha region **Year:** 2016 **Location**: KSA **Client:** Ministry of Environment, Water & Agriculture, kingdom of Saudi Arabia **Main project features:** Planning, design, and Hydraulic modelling. **Position held:** Team Leader **Activities performed:** The project objectives are to rehabilitate the water supply system , Master Plan, Preparing Design Reports, Hydraulic Modelling and Tender Design of Water net-works of Al-Baha Region and its 10 Governorates about 4000 km pipes in (Baha – Mekhwah – Ghamed el zanad – Beljershy- Aqeeq- Qelwa – Bani Hassan – Hagra –Mandaq –Qara) by the Ministry of Environment, Water & Agri-culture. The investment cost for the proposed project is at SR 820 million, as well as the provision of surveying services and application of systems
<u>Technical review of the following tasks:</u> 1) Detail Design and specifications for project facilities outside the desalination/solar system/Fish Farm treatment process 2) Design and Built drawings and specs for the Desalination WTP, wells, Solar System and treatment process of the Fish Farm to be issued for the contractors. The Design and Built tender document preparation stage shall include, but not limited to the followings: ▪ Concept hydraulic design for the treatment units ▪ General drawing of the plant layout. ▪ Process flow diagram. ▪ Specification and Bill of Quantities	**Name of assignment or project:** El-Roda Desalination Plant and Associated Fish Farm **Year:** 2021 **Location**: North Saini- Egypt **Client:** North Saini Governorate **Main project features:** Planning, design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** CDM Smith has invited me to review of a El-Roda Desalination Plant and Associated Fish Farm. The aim of the project is to construct the followings: 1. Desalination WTP and wells 2. Solar System 3. Treatment process of the Fish Farm 4. Auxiliary buildings/facilities.

▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Desalination water plants in Al Hael region by using RO system **Year:** 2016 **Location**: KSA **Client:** KSA Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare tender documents
▪ Detailed Design & Typical drawings ▪ Tender documents including: specification; BOQ	**Name of assignment or project:** oily water treatment from wells excavation in GAS companies by using **RO** system in Kantra Sharq- Sinai (1000 m^3/day) **Year:** 2011 **Location**: Sinai- Egypt **Client:** El Assria Company **Main project features:** design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and elaborate Tender Documents for oily water treatment from wells excavation in GAS companies. The work included water treatment by RO system and disposing the reject water in evaporation ponds. Preparing tender documents for the construction of the works, including: Instruction to Tenderers; Conditions of Contract; Specifications; tender Drawings; Bill of Quantities; and Construction Cost Estimates.
▪ Detailed Design & Typical drawings ▪ Tender documents including: specification; BOQ	**Name of assignment or project:** water and wastewater system (networks and treatments) in blue Tuna fish farm at Marsa Gargoop- Marsa Matroh. **Year:** 2016 **Location**: Marsa Matroh- Egypt **Client:** National Company for Fishery & Aquaculture **Main project features:** design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and elaborate Tender Documents for the followings: - Water and firefighting network - Wastewater collection and treatment - Desalination plant
▪ Detailed Design & Typical drawings ▪ Sewer Hydraulic modeling ▪ Tender documents including specification and BOQ. ▪ Construction follow up and preparing shop drawings	**Name of assignment or project:** Design and preparation of tender document for the collection network and wastewater treatment plant (Activated Sludge) and reuse in new Heliopolis City **Year:** 2015 **Location**: Cairo- Egypt **Client:** Heliopolis For Housing & Development **Main project features:** Planning, design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design of sewage network; irrigation network; Road design; sewage Pump station; and Wastewater treatment plant (52000 m3/day) for New Heliopolis City (Phase 1; 2; and 3)
▪ Detailed Design & Typical drawings ▪ Sewer Hydraulic modeling ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Sewer networks of Shubra Balola, Kafr Soliman Awad, Eshnaway and Bloos Al-Hawa **Year:** 2019 - present **Location**: Santa, Gharbia Governorate, Egypt **Client:** National Authority of Potable Water and Sewage (NOPWASD) **Main project features:** Planning, design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design of sewage network for four villages in Santa, Gharbia Governorate, Egypt.
▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Assessment and Rehabilitation for wastewater treatment plants in Samarkand and Bukhara **Year:** 2010 **Location**: Uzbekistan **Client:** Uzbekistan Government- Project funded by World Bank **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Assessment, modify, design, and preparing bidding documents

▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Baqubah wastewater treatment plant and reuse (**90,000 m^3/d**) **Year:** 2014 **Location**: Iraq **Client:** Iraq Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare tender documents
▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Al Madina El Monoura Wastewater Treatment Plant (Carrousel) - **200,000 m^3/d** and reuse and sludge treatment **Year:** 2015 **Location**: KSA **Client:** KSA Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare tender documents
▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Buraidah Wastewater Treatment Plant (Carrousel) – second phase-**75,000 m^3/d** **Year:** 2009 **Location**: KSA **Client:** KSA Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare shopdrawing
▪ Detailed Design & Typical drawings ▪ Preparing shop drawings	**Name of assignment or project:** Wastewater collection and treatment systems for the city of Fujairah and its Environs **Year:** 2005 **Location**: Arab United of Emirates **Client:** AUE Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare shop drawings
▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Fresh and Brackish water supply systems to Jahra Areas and reconstruction of pumping stations P16 and P18, Ministry of Energy **Year:** 2006 **Location**: Kuwait **Client:** Kuwait Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare tender documents
▪ Detailed Design & Typical drawings ▪ Tender documents including specification and BOQ.	**Name of assignment or project:** Treatment plant of tannery wastewater industrial area, El Adra, Damascus **Year:** 2005 **Location**: Syria **Client:** Syria Government **Main project features:** Design, and preparing bidding documents. **Position held:** Team Leader **Activities performed:** Design and prepare tender documents
▪ Assessment with detailed solutions ▪ Cost estimate	**Name of assignment or project:** Assess and rehabilitate more than 30 water and wastewater treatment plants in Minia, Beni suef, and Fayoum governorates. HARZA " Environmental Services, Inc." In Association With Camp Dresser & McKee International, Inc. **Year:** 2000 **Location**: Egypt **Client:** Egyptian Government **Main project features:** Assessment and give detailed solutions with cost estimate. **Position held:** Team Leader **Activities performed:** Assessment and give detailed solutions with cost estimate.

▪ Prepare the Environmental and Social Impact Assessment (ESIA) for all the clusters as per the requirements of the EEAA considering the requirements of the Program and provide the client with the EEAA's approval; ▪ Prepare the health studies including the public consultation and approve it from the Health Directorate (if needed); ▪ Prepare the Environment and Social Management plans (ESMPs) for the Program; ▪ Review and Supervise ISCs in preparation of appropriate subproject Environment and Social Management plans (ESMPs), including site-specific EMPs when necessary; ▪ Assist and follow up the WSCs in preparing the Environmental Registers for WWTPs; ▪ Train the WWTPs' staff on the environmental registers of WWTPs. ▪ Develop a plan for the sludge disposal resulting from the WWTPs (existing and new); ▪ Work with other PMCF team members to ensure site specific ESMP measures reflected in the design, tender documents and assure that those measures are implemented during construction and operation; ▪ Monitor and report on the status of the Environmental tasks and activities within the Program; ▪ Train WSC staff on subproject specific EMP preparation (when needed), monitoring environmental impacts and mitigation measures unde1taken during construction phase of all sub-projects; ▪ Monitor and manage the lSCs and contractors on adhering to safeguards provisions as included in the specifications of the contracts and as required by the Program including the corrective actions when needed.	**Name of assignment or project:** IWSP 2 - TADEC 2 **Year:** 2022 - present **Location**: Egypt **Client:** Ministry of Housing, Utilities and Urban Communities of the Government of Egypt **Fund From:** KFW **Main project features:** Planning, design, procurement and construction of sanitation facilities in the Governorates of Qena & Sohag, in Upper Egypt. **Position held:** Environmental Expert **Activities performed:** - Prepared the Environmental and Social Impact Assessment (ESIA), - Prepared the Environment and Social Management plans (ESMPs) for the Program, - Assess the capacity of the ACs' PIUs to manage the production of ESIAs & ESMPs, - Propose training plans for each AC PIU on the basis of the capacity assessment - Reviewed and Supervise ISCs,, - Prepared the Environmental Registers for WWTPs, - Trained WSC staff in different environmental issues, - Ensured site specific ESMP measures reflected in the design, tender documents, Monitored and managed all environmental issues in the program. **Name of assignment or project:** SRSSP I **Year:** 2017 - present **Location**: Egypt **Client:** Ministry of Housing, Utilities and Urban Communities of the Government of Egypt **Main project features:** Planning, design, procurement and construction of sanitation facilities for 833,000 people in 155 villages in the three Governorates of Beheira, Sharkia and Dakahlia. Funded by the World Bank via the Program for Results payment mechanism. **Position held:** Deputy Team Leader **Activities performed:** - Prepared the Environmental and Social Impact Assessment (ESIA) for all the clusters, - Prepared the health studies, - Prepared the Environment and Social Management plans (ESMPs) for the Program, - Reviewed and Supervise ISCs,, - Prepared the Environmental Registers for WWTPs, - Trained WSC staff in different environmental issues, - Developed a plan for the sludge disposal, - Ensured site specific ESMP measures reflected in the design, tender documents, - Monitored and managed all environmental issues in the program.
▪ Consultant to prepare "Environmental and Social Safeguards Assessment" for "The Integrated Sanitation Technologies in Rural Areas in Upper Egypt (LUXOR)"	**Name of project:** Environmental and Social Safeguards Assessment for Integrated Sanitation Technologies in Rural Areas in Upper Egypt (LUXOR) (treatment and reuse) **Year:** 2018- 2019 **Location:** Egypt **Client:** African Development Bank **Position held:** Environmental expert **Activities performed:** Prepare detailed assessment of the environmental, social and climate change impacts of the programme in each of the locations to be determined by GoE (Luxor Governorate); - On the basis of the environmental, social and climate change impact assessments recommend measures and programme design features to minimize any adverse

	impacts and maximize the programme's positive effects on the intended beneficiaries; - Carry-out a diagnostic assessment using the principles of precision equivalence and acceptability based on ISS policy principles as benchmarks of applicable and relevant national, programme or sector level laws, regulations, rules, and procedures for managing and mitigating the environmental and social impacts of the overall program; - Conduct and facilitate consultations with stakeholders and main beneficiaries of the programme target areas to solicit their views and inputs into the programme. Assess how cultural, financial, or physical barriers may hamper participation of socially marginalized or disadvantaged groups (e.g., the poor, the disabled, children, the elderly, indigenous Peoples, or religious or ethnic minorities) and ensure the consultation processes promote communication and informed decision making; giving those who may be potentially affected prior access to information about the topics for consultation. - Identify the number of people affected (if any), the nature of the impact and estimation of any group to be displaced or resettled.
▪ Prepare the Environmental Impact Assessment (EIA) as per the requirements of the EEAA and provide the client with the EEAA's approval;	**Name of project:** New extension of the wastewater treatment plant in El Zagazik city (Conventional aeration- 92,000 m3/day) , Al Sharkya, Egypt. **Year:** 2019 **Location:** Egypt **Client:** Government/contractor **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: wastewater treatment plant in Abbeaz (MBBR- 25,000 m3/day), Alexandria, Egypt. **Year:** 2019 **Location:** Egypt **Client:** Government/contractor **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: Wastewater collections and treatments in 4 clusters in Upper Egypt (Assuit, Sohag, Qena, Luxor). **Year:** 2017-2018 **Location:** Egypt **Client:** African Development Bank **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: Detergent Factory of Misr Petroleum in Alexandria . **Year:** 2018 **Location:** Egypt **Client:** Detergent Factory of Misr Petroleu **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: Water treatment plant in El Walidia, Assuit governorate. **Year:** 2017 **Location:** Egypt **Client:** Government/contractor **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: Water treatment plant in Dayorot, Assuit governorate. **Year:** 2017 **Location:** Egypt **Client:** Government/contractor **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**

	Name of project: Wastewater treatment plant and network in Al Gozayera village, Ismailia. **Year:** 2016 **Location:** Egypt **Client:** GIZ **Position held:** Environmental expert **Activities performed:** Preparing EIA report**.**
	Name of project: Treatment of the polluted water from oil fields, Qantara Sharq . **Year:** 2014 **Location:** Egypt **Client:** Private Company **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
	Name of project: Spinning, weaving and dyeing company in Domitta. The Company owner is DNM Textile (Turkish company). **Year:** 2010 **Location:** Egypt **Client:** DNM Textile **Position held:** Environmental expert **Activities performed:** Preparing EIA report and got approval from EEAA, Ministry of Environment**.**
▪ Environmental Auditing and monitoring for different industries at four industrial cities in Egypt	**Name of project:** Environmental Auditing for different industries at four industrial cities (10th of Ramadan, 6th of October, El Obour, Badr) **Year:** 2000-2001 **Location:** Egypt **Client:** Ministry of State for Environmental Affairs **Position held:** Sr. Environmental expert **Activities performed:** Environmental Auditing and monitoring for different industries at four industrial cities in Egypt.

SELECTED PUBLICATIONS:

1. **Tarek I. M. Sabry**, Ahmed S. El-Gendy, AlaaEldin H. M. Naguib & Ahmed M. A. Khafaga (2023), "Innovative passive aeration process for synthetic deoxygenated water" HBRC Journal, 2023, VOL. 19, NO. 1, 87–102, Taylor & Francis, ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/doi/full/10.1080/16874048.2023.2216482 , Published online: 29 May 2023.
2. Hassane, M. K.; Hegazy, M. H.; Hussein, H. M.; and **Tarek I. M. Sabry (2022)**, "Grey Water Treatment Using Sand Filtration," International Research Journal of Advanced Engineering and Science, Volume 7, Issue 2, pp. 232-238, 2022.
3. Khaled A. I.Ibrahim, Sayed I. A. Ahmed, Ahmed S.El-Gendy, **Tarek I. M. Sabry (2019)**; Effect of Media Properties on Performance of Sand Filtration for Drain Water Treatment. International Journal of Scientific & Engineering Research (IJSER), Sept. 2019.
4. Sayed I. A. Ahmed , **Tarek I. M. Sabry ,** Ahmed S. El-Gendy and Mazen M. N. Tawfik **(2018);** Impact of Sand Filtration Characteristics on Wastewater Treatment. International Journal of Multidisciplinary Educational Research (IJMER) Journal, Volume: 7, Issue: 05, May 2018. JISRAF Impact Factor 5.818.
5. Sayed I. A. Ahmed, **Tarek I. M. Sabry,** Hamdy I. A. Ahmed, Mostafa W. T. Khalil **(2017);** Non-woven fabric filters integrated with decentralized system for domestic wastewater treatment. The International Journal of Engineering and Science (IJES), Volume 6, Issue 3, PP 66-74, 2017.
6. G.B. Bayoumi, A.S. El-Gendy, **Tarek I. M. Sabry,** M. Saad **(2016)**. Fabric filters integrated with ZECU system for sewage treatment in small communities. 13th IWA Specialized Conference on Small Water and Wastewater Systems, Athens, Greece, 14-16 September 2016
7. Sameh Reda, Rifaat Abdel-Wahaab, **Tarek Sabry,** Sayed Ismail **(2015).** Optimization of using UASB reactor followed by DHS as integrated system for sewage treatment. Faculty of engineering, El Azhar University. Vol., No., 2015
8. El-Gendy, A.S., **Sabry, T.I.**, and El-Gohary, F.A. **(2012) "**The Use of AN Aerobic Biological Filter for Improving the Effluent Quality of A Two-Stage Anaerobic System" International Water Technology Journal (IWTJ), Volume 2, No. 4.
9. **Sabry, T.I.M.,** A. S. El-Gendy and F. A. El-Gohary **(2011).** *An Integrated Anaerobic – Aerobic System for Wastewater Treatment In Rural Areas.* IWA Conference 2011 Small Sustainable Solutions for Water, Venice, April 18-22.
10. **Sabry, T.I.M. (2011),** *An Integrated Anaerobic – Aerobic System for Sewage Treatment.* Scientific newsletter, Faculty of engineering, El Azhar University. Vol. 33, No. 1, Jan. 2011.
11. Alaa M., **Sabry T.I.,** Waheeb E.S. and El-Gendy A.S. **(2011).** "Evaluation of the use of sand filter for improving effluent quality of anaerobic / aerobic wastewater treatment system **,"**Journal of Al-Azhar University Engineering Sector / Faculty of Engineering, Al-Azhar University **,**Cairo **,**Egypt.
12. **Sabry, T.I.M.,** Hossam Ali, Ali Abd El Fattah and Sherif Afifi **(2011)**. *Optimization of Land Application for Sewage Treatment in Rural Desert Areas.* World Applied Science Journal [WASJ], IDOSI, ISSN: 1818-4952. WWW.IDOSI.org

13. **Sabry, T.I.M.,** Walid Hamdy and Saleem S. AlSaleem **(2010)**. *Application of Different Methods of Natural Aeration of Wastewater and their Influence on the Treatment Efficiency of the Biological Filtration*. Journal of American Science 2010;6(12):944-952]. (ISSN: 1545-1003). http://www.americanscience.org.

14. **Sabry, T.I.M. (2010)**: *Evaluation of decentralized treatment of sewage employing Upflow Septic Tank/Baffled Reactor (USBR) in developing countries.*

Journal of Hazardous Materials, ELSEVIER, 174 (2010) 500–505

15. Sherif M. ElKholy, **Sabry, T.I.M,** and Ibrahim S. AlSalamah **(2009)**. *Environmental Contamination Risks Due to Leaking Underground Fuel Tanks (LUFT) of Gas Stations in AlQassim Region, Saudi Arabia.*

Environmental and Computer Science, 2009, ICECS '09. Second International Conference. Date:28-30 Dec. 2009.

16. **Sabry, T.I.M.,** Sherif M. ElKholy, and Ibrahim S. AlSalamah **(2009)**. Environmental Assessment of Wastewater Pollution in Al-qassim Industrial City. Chemical, Biological and Environmental Engineering Conference (Pp 267-274)**,** International Conference on CBEE 2009, Singapore, 9 - 11 October 2009.

17. Ghobrial, F. H., **Sabry, T.I.M.**, Wahb, I, S, and Osman M. **(2008)**. *Establishing Design Criteria for the Up Flow Septic Tank / Baffled Reactor (USBR) Use in Rural Egypt*. Scientific newsletter, Faculty of engineering, El Azhar University. Vol. 30, No. 3, October 2008, pp. 1123- 1133.

18. **Sabry, T.I.M. (2007)**: *Application of the UASB inoculated with flocculent and granular sludge in treating sewage at different hydraulic shock loads*. Bioresource Technology, ELSEVIER, 99 (2008) 4073–4077.

19. **Sabry, T.I.M.,** and Sung, S. **(2007)**: *Demonstration of The Modified Septic Tank (USBR) for Rural Wastewater Treatment in Egypt*

European Water and Wastewater Management Conference, Aqua Enviro, Newcastle, England, 24th – 26th September 2007.

20. **Sabry, T.I.M.,** Abdel Azeem, M., and El Nady, M. E. **(2007)**: *Development of Water Treatment Criteria by Flo- Filter System***.**

Scientific newsletter, Faculty of engineering, Ain Shams University, Sept., 2006.

21. **Sabry, T.I.M.,** Abdel Azeem, M., and El Nady, M. E. **(2007)**: *Effect of Chemicals Addition on Flotation Filtration Performance.*

Scientific newsletter, Faculty of engineering, Ain Shams University, Sept., 2006.

22. **Sabry, T.I.M** and Ghobrial, F.H. **(Sept. 2005)***: Chemical Enhanced Primary Treatment in the Developing Countries.*

IWA Specialized Conference, Nutrient Management in Wastewater Treatment Processes and Recycle Streams, Krakow, Poland, 18-21 September 2005.

23. F. Ghobrial and **Sabry, T.I.M. (2004)**: *Planning Scenarios of Treating Wastewater in Rural Egypt*.

In Proceedings of RETBE 4 International Conference, Alexandria, Egypt, between December 11-13, 2004.

24. **Sabry, T.I.M.,** and Sung, S. **(2004)**: *Start-Up Behavior of UASB Reactor Seeded with Granular and Flocculent Sludge.*

Scientific newsletter, Faculty of engineering, Ain Shams University, vol.39, No. 1, March 31, 2004.

25. **Sabry, T.I.M.,** and Sung, S. **(2004)**: *The Feasibility of Using an Anaerobic Modified Septic Tank in the Developing Countries*.

World Water Congress and Exhibition, IWA, Marrakech 19th – 24th September 2004.

26. Hanafy, M., Nabih, H.I., **Sabry, T.I.M. (2004)**: Treatment of oily wastewater using dissolved air flotation technique.

The Transactions of the Egyptian Society of Chemical Engineers, volume 30, No. 1, January 2004.

27. **Sabry, T.I.M. (Jan. 2003)**: *The Best Start-up Regime of the Thermophilic Sludge Treating Fats Containing Wastewater.*

Scientific newsletter, Faculty of engineering, Ain Shams University, vol.37, No. 4, Dec 31, 2002. Paper has been also accepted from the committee of Latin American Workshop and Symposium on Anaerobic Digestion (in Mexico), October 2002 (IWA)

28. **Sabry, T.I.M**., Abdel-Shafy, M., Hanafy, M. and Abdel-Gawad, S. **(Nov. 2002)**: *Review on the Existing Wastewater Treatment Plants in Egypt.*

In Proceedings of RETBE 2 International Conference, Alexandria, Egypt, between December 21-23, 2002.

29. Abdel-Shafy, M., **Sabry, T.I.M**., Hanafy, M. and Abdel-Gawad, S. **(Oct. 2002)**: *Industrial Wastewater Treatment for Disposal into Agricultural Drain:* A Case Study,

In Proceedings of First Regional Conference on Perspective of Arab Water Cooperation, National Water Research Center, Egypt.

30. **Sabry, T.I.M. (Sept. 2002)**: *Best Practices for Sanitation Works in the Coast and Desert Red Sea Area*,

Scientific newsletter, Faculty of engineering, Ain Shams University. Vol. 37, No. 3, September 30, 2002.

31. **Sabry, T.I.M.** and Ghobrial, F.H. **(June 2001)**: *Cost Comparison of Treating Wastewater in Rural Egypt*,

Scientific newsletter, Faculty of engineering, Ain Shams University. Vol. 36, No. 2, June 30, 2001.

32. **Sabry, T.I.M.** and Ghobrial, F.H. **(June 2001)**: *Cost Optimization of Wastewater Systems in Rural Egypt*, Scientific newsletter, Faculty of engineering, Ain Shams University. Vol. 36, No. 2, June 30, 2001.

33. Sayed, S.K.I. and **Sabry, T.I.M. (March 1998)**: *The Effect of the UASB Reactor proportional Dimensions on the Performance of Thermophilic Sludge in Treating Fats Containing Wastewater,* In Proceedings of International Congress IAWQ (IWA) held in Wageningen, The Netherlands