
CURRICULUM VITAE I.A. El-Desouky 1

Name	: El-Desouky, I.A.	Nationality:	Egyptian
Profession	: Acting Director	Place of Birth:	Mansoura, Egypt
Years with Firm	: 30 years	Date of Birth:	1 Oct., 1952
Present Employer	: Hydraulics Research Institute (HRI), Delta Barrage, Egypt		

Key Qualifications:

Industrial Hydraulics Expert
Hydraulic Structures Expert
Integrated River Management Expert

Mr. El-Desouky has a broad experience, covering the different aspects of hydraulic engineering, gained during 30 years practice. His main experience has been achieved in the fields of river engineering industrial hydraulics and hydraulic structures. This experience was gained through his involvement in the studies of all hydraulic structures and power plants cooling systems in Egypt as well as his management of allot of multidisciplinary studies. Such studies required extensive hydrographic survey, and scale and mathematical models. Mr. El-Desouky is responsible for test and evaluations for the design and performance of intake and outfall structures for all power plants in Egypt. Mr. El-Desouky is highly experienced in cooperative projects within the Nile Basin. This knowledge was gained through his participation in the most of the Nile Basin Initiative Projects, The Nile Basin Capacity Building Network for River Engineering and the FRIEND Nile Projects.

Mr. El-Desouky joined Tawfic & Associates – Environmental & Water Consultants in January 2010 as head of modeling and electromechanical design department.

Education:

1977 B.Sc. Mechanical Engineering, University of Al-Azhar, Egypt.

Employment Record:

2009 to date Vice Chairman
2005 - 2009 Acting Director of HRI
1997 – 2005 Deputy Director, HRI
1992 to date Marketing Manager of HRI, **and**
1989 - 1997 Senior Hydraulic Engineer, Industrial Hydraulics Division, HRI
1986 - 1989 Project Manager cooling water system studies, Industrial Hydraulics Division, HRI
1979 - 1985 Hydraulic Engineer, HRI

Experience Record:

2005 to date

Egypt: Project Manager of field investigation and hydraulic model studies of the intake/outlet configuration as well as the required bed protection of Nubaria Power Plant, 2250 MW.

2005 to date

Egypt: Project Manager of field investigation and hydraulic model studies of the intake/outlet configuration as well as the required bed protection of Tebbin Power Plant, 640 MW.

2005 to date

Egypt: Project Manager of field investigation and mathematical model study of Increasing the Capacity and Formulate Operational Management System for Western Nagaa Hammadi Canal.

2005 to date

Egypt: Project Manager of field investigation and mathematical model study of Increasing the Capacity and Formulate Operational Management System for Suez Irrigation Canal.

2004 to 2005

Egypt: Project Manager of the mathematical model study of Assessment the Inundation Probabilities of Nile Delta in Case of Releasing Emergency Discharges Downstream Aswan High Dam.

2004 to 2005

Egypt: Project Manager of field investigation and mathematical model study of Increasing the Capacity and Formulate Operational Management System for Al-Zoummer Canal.

2004 To 2005

Egypt: Project Manager of Acceptance Tests and Performance Evaluation of Mubarak Pumping Station, Toughka Project.

2004 to 2005

Egypt: Advice on "Operational Management System for Shiekh Zaid Canal", Toushka Project.

2003 To 2004

Egypt: Project Manager of field investigation and mathematical model study of Improving and Adaptation of Kassasien Pumping Station Outlet to Mahssama Drain.

2003 To 2004Egypt: Project Manager of field investigation and mathematical model study of Improving the Capacity of Damitta Branch to Convey the Emergency Discharges.

2003 To 2004

Egypt: Project Manager of field investigation and mathematical model study of Increasing the Capacity and Formulate Operational Management System for Giza Canal.

2003 to 2004

Egypt: Project Manager of Model study of the effect flood (emergency) discharges on local scour, bank stability, and inundation in Egypt.

2003 to 2004

Egypt: Project Manager of the field and model study of improvement the irrigation management of the western Delta.

2003 to 2004

Egypt: Project Manager of Model morphological study to prevent sedimentation in front of the intake of El-Kurimate Power plant.

2002 to 2004

Egypt: Project Manager of field and model study of "Water and salinity Balance of Karon Lake, Fayoum"

2002 to 2003

Egypt: Project Manager of field and model study of "Water and salinity Balance of wady Al-Rian Lake, Fayoum"

2002 to 2003

Egypt: Project manager of Field and model study of improvement the efficiency and preventing sedimentation of Rossetta Mouth at the Mediterranean Sea.

2002 to 2003

Egypt: Project Manager of the field and model study of the new sea harbour at the Mediterranean Sea, near the mouth of Boroulls Lake.

2001 to 2002

Egypt: Project Manager, of the model study to design a cooling system for Talkhah Power Plant, 1250 MW.

2001 to 2002

Egypt: Project Manager of field and model study of "Water and Salinity Balance of Edko Lake, Behirah"

2000 to 2001

Egypt: Project Manager of field investigation and physical model study of the new pumping station to replace El-Nasr 4 pumping station. It will have 7 units, the discharge of each is $13.0 \text{ m}^3/\text{s}$ at 15 m static head.

2000 to date

Egypt: Project Manager of field investigation and desk study of "Improving the Navigability of Damitta Branch Project".

2000 to 2001

Egypt: Advice on "Operational Management System for El-Salam Canal Project".

2000 to 2001

Egypt: Project Manager of field investigation and mathematical model study of the intake/outlet configuration of Nobarria Power Plant (The BOT Project), 640 MW, which is located at Nobarria Canal, 7.2 km downstream the canal head regulator.

1998 to 2001

Egypt: Project manager of Hydraulic model studies of the New Naga Hmadi Barrage & Power Project. Studies included the final design, the construction stages, and the required protection for the safety of the Barrage.

2000

Egypt: Project Manager of field investigation and mathematical model study of the evaluating the hydraulic performance of Salam pipeline, which is located at Abu Thimble. The project includes 2 pumping stations, 23.0 km pipeline, and it irrigates 10,000 feddans.

1999 to 2000

Egypt: Project Manager of field investigation and mathematical model study of the design of the discharge structure of Kalabsho pumping station to the Mediterranean Sea, the station is located about 20.0 km west of Gamassa, Dakahlia.

1999 to 2000

Egypt: Project Manager of field investigation and mathematical model study of the intake/outlet configuration of Cairo North Power Plant (The BOT Project), 640 MW, which is located at Ismallia Canal, 3.0 km downstream the canal head regulator.

1998 to 1999

Saudi Arabia: Project Manager of the and hydraulic model studies of the intake stilling basin and discharge canal operation, performance, and the required bed protection of Ghazlan Power Plant, 2400 MW.

1998 to 1999

Egypt: Project Manager of field investigation and desk study of the intake/outlet configuration of Sidi Krir Power Plant Units 3&4 (The BOT Project), 640 MW, which is located at the coast of Mediterranean Sea, 30 km west of Alexandria.

1998 to 1999

Egypt: Project Manager of field investigation and desk study of the intake/outlet configuration of Shark El-Tafryia Power Plant (The BOT Project), 640 MW, which is located at the coast of Mediterranean Sea, 25 km east of Port Saied.

1998 to 1999

Egypt: Project Manager of field investigation and desk study of the intake/outlet configuration of Suez Gulf West Power Plant (The BOT Project), 640 MW, which is located at the coast of Red Sea, 50 km south of Suez.

1996 to 1998

Egypt: Project coordinator and technical advisor for the New Valley Irrigation Project and its 334 m³/s pump station.

1996-1997

Egypt: Project Manager of field investigation and hydraulic model studies of the intake/outlet configuration as well as the required bed protection of Ayoun Moussa Power Plant, 640 MW.

1996

Egypt: Project manager of field investigation and mathematical model study of Balm beach which is located at the Mediterranean Sea. The client is 6 October Society.

1995-1996

Egypt: Project manager of field investigation and mathematical model study of Sidi - Krir Tourist Village which is located at the Mediterranean Sea.

1995-1996

Egypt: Project Manager of field investigation and hydraulic model studies of the intake/outlet configuration as well as the cooling system pump station performance of Assiut Power Plant, 900 MW.

1995-1996

Egypt: Project advisor for river training and morphological studies on mobil bed model, Assiut Power Plant, 900 MW.

1995

Egypt: Project manager of field investigation and hydraulic model study of El-Lahon Power Plant.

1995

Egypt: Project advisor for design and test of the flexible weir downstream Minofi Head regulator.

1995

Egypt: Project Manager of designing the irrigation system for 400,000 feddans in Sinai (El-Salam Canal)

1994-1995

Egypt: Project Manager of field investigation and desk study of the intake/outlet configuration of Sidi Krir Power Plant Units 1&2, 640 MW, which is located at the coast of Mediterranean Sea, 30 km west of Alexandria.

1994-1995

Egypt: Design of the irrigation system of 3000 feddans of El-Sherouk Corporation in Moderia El-Tahrir.

1992 to date

Egypt: Advice on numerous studies of pipelines water hammer calculations, analysis, as well as design the required anti-hammer devices.

1991 to date

Egypt: Supervision of calibration and performance evaluation of more than thirty irrigation and drainage pump stations.

1994

Egypt: Project manager of Hydraulic & Environmental studies, and Field Measurements of the Pollution Load, Guirga Sugar Factory.

1993 - 1994

Egypt: Project Manager of field investigation and hydraulic model study of the intake/outlet configuration of EL-Dabaa Power Plant, 2000 MW, which is located at the coast of Mediterranean Sea.

1993 - 1994

Egypt: Project Manager of Hydraulic studies on two dimensional Mathematical model (TRISULA) for the evaluation of the different design alternatives of the New Naga Hammadi Barrage and Power Project.

1993 - 1994

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of Damanhour Power Plant, 675 MW.

1993

Sudan: Advice on site selection and hydraulic design of the intake structure, Atbara and

Eldamer Water Treatment Plant.

1993

Egypt: Project manager of field investigation and mathematical model study of the intake/outlet configuration of El-Mahmoudia Power Plant, 600 MW.

1993

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of El-Kureimat Power Plant, 2400 MW.

1992 - 1993

Egypt: Project advisor for river training and morphological studies on Mathematical and mobile bed scale models, El-Kureimat Power Plant, 2400 MW.

1992 - 1993

Egypt: Project manager of Hydraulic model study to test and modify the original design of El-Salam Canal Syphon under Suez Canal. The study aimed to design and test the trash racks, as well as, ensure optimal tunnels performance and minimizing the hydraulic loss across them. One of the study aims was also investigate the surge wave created by termination of the downstream pump station.

1991 - 1992

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of Cairo North Power Plant, 1150 MW.

1992

Egypt: Participation on hydraulic studies for the rehabilitation of 400,000 hectare in North Sinai.

1991

Egypt: Project manager of field measurements and hydraulic scale model to find out the causes of the scour hole downstream the main pier of Imbaba Bridge, which is the only railway bridge in Cairo. Also to recommend the best protection method required to stabilize the scour hole.

1990 - 1991

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of Cairo South Power Plant, 1290 MW.

1990

Netherlands: Participation in the studies of development of TRISULA Mathematical model. Responsible for operation of the scale model which is required for calibration and verify the mathematical model.

1990

Egypt: Project manager of Hydraulic model study of the pump sump and intake of Cairo West Power Plant, 1784 MW.

1989 - 1990

Egypt: Project manager of Hydraulic model studies of the New Esna Barrage & Power Project. Studies included the final design, the construction stages, and the required protection for the safety of the Barrage.

1989

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of Cairo West Power Plant, 1784 MW.

1988

Egypt: Project manager of field measurements and desk work to find out the causes of cavitation occurs in the cooling water pump station of Shoubrah El-khimah Power Plant, 1200 MW.

1987 - 1988

Egypt: Project manager of field investigation and hydraulic model study of the intake/outlet configuration of Damitta Power Plant, 600 MW.

1981 - 1987

Egypt: Advice on numerous projects of design, wiring, installation, and start-up of fire alarm and fighting systems.

1987

Egypt: Participation in calibration, equipment evaluation, and installation design of the Nile River telemetry and remote control system (the Country project).

1980 - 1983

Egypt: Advice on selection, evaluation, calibration, operation methods, and test of laboratory and field instruments.

1982

Egypt: Hydraulic Engineer of field investigation and hydraulic model study of the intake/outlet configuration of Kafer Al-Dawar Power Plant, 300 MW.

1979 - 1980

Egypt: Participation in design, equipment evaluation, installation, start up, test, and operation of the Nile River telemetry and remote control system (the pilot project).

Technical Assignments

1996 to date

Egypt: Lecturing in a three-month international course on Hydrometric and Pumping Station, sponsored by the Egyptian and Dutch Government.

1989 to date

Egypt: Lecturing in a numerous two-weeks courses on Hydrometric and Hydraulic Engineering, sponsored by the Training & Manpower Development, Ministry of Public Works & Water Resources.

1993

Egypt: Lecturing a two-weeks training workshop on the Hydrometry of Large Rivers held in Cairo, trainees were from 11 African Countries. The workshop sponsored by the World Meteorological Organization.

LIST OF PUBLICATIONS

1981 to date

Technical reports concerning hydraulic modeling, pump and pump station calibration, and instruments tests.

1996

"Realigning the Nile River to provide cooling water to a power plant." International Conference on New/Emerging Concepts for Rivers, Chicago, Illinois, USA

1995

"Morphological Study of Mediterranean Shore", International conference in Water Resources, San Antonio, TX, USA.

1995

"Pollution Load Measurement and Evaluation of Sugar Factory", Regional Conference and International Symposium on Environment and Hydrology, Cairo, Egypt.

1993

"Swinging flow of outlet structures" Al-Azhar Engineering Third International Conference, Faculty of Engineering Al-Azhar University, Cairo, Egypt.

1993

"Model study of a power plant intake structure", International Conference in Advances Hydro-Since & Engineering, , Washington D.C., USA.

1991

"Effect of Nile River flow on Performance of Shoubrah Power Plant cooling system", National Conference of Hydraulic Engineering, Nashville, Tennessee, USA.

1990

"Cofferdam rip-rap protection for the New Esna Barrage", National Conference on Hydraulic Engineering and International Symposium on the Hydraulic/Hydrology of the Arid Lands, San Diego, California, USA.

1990

"Model study of Western Cairo Power Station cooling system", International Conference on Physical Modelling of Transport and Dispersion, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.

1989

"Physical modelling of heated discharges into a stagnant river", National Conference on Hydraulic Engineering and International Symposium on Sediment Transport, New Orleans, Louisiana, USA.