

CURRICULUM VITAE

PERSONAL

NAME: MOHAMED AHMED ADAM KHADAM
NATIONALITY: Sudanese
DATE OF BIRTH: 1947
LANGUAGES: Arabic - Excellent
English - Excellent

ACADEMIC AND PROFESSIONAL QUALIFICATIONS:

1971 B.Sc. Civil Engineering with honors, University of Khartoum.

1975 Diploma of Sanitary Engineering (Equivalent to M.Sc.)
International Courses, Delft, Netherlands.

1986 Ph.D. Civil Engineering, University of Khartoum.

1992 Associate Professor, Faculty of Civil Engineering, University
of Khartoum.

Member of International Water Resources Association, U.S.A.

Member, Sudanese Engineering Society.

KEY QUALIFICATIONS:

Over 30 years experience in public health and water engineering. Experienced in organising and managing major projects in study, design and implementation stages. Three years experience as an expert and task leader for the team responsible to assess the municipal infrastructures as far as wet utilities were concerned for the City of Riyadh capital of Saudi Arabia. Two years experience as an expert of the Arab Bank for Economic Development in Africa (BADEA) working for Waste Water Authority of the Ministry of Energy and Water Resources in Mauritius. Project manager for two projects in Sudan supervised by Mena-Water company based in UAE (Sharjha) . One project for extension and rehabilitation of 300ML/d water treatment plant in Khartoum North and the other project for industrial wastewater treatment plant of capacity 17ML/d. These two projects started on 2010 and now (2013) in the commissioning stage.

More than ten years in academic career as a Lecturer and Associate Professor of environmental engineering for Civil Engineering Department of University of Khartoum.

Head of Civil Engineering Department of University of Khartoum (1997-2003).
Deputy Dean of the Faculty of Engineering (U of K) for academic affairs (2004 to 2009).

EXPERIENCE RECORD:

Project Manager for rehabilitation of sewage treatment plant (SBR system) for Khartoum State waste water Corporation of capacity 17000 cum/d (Mena –water U A E main Contractor (2010 to date).

Project Manager for rehabilitation of water treatment plant for Khartoum State water Corporation of capacity 300000 cum/d (Mena-water UAE main Contractor) (2010 to date)

Design of water treatment facilities for rural and nomad communities in Northern Kordofan state in the Water Harvesting Projects (water impounding reservoirs (Haffirs)) financed by Dam Implementation Unit 2010/2011

Design of Geili waste water Treatment plant 2006/007.

Design of El Obeid water treatment plant from White Nile 2006/s007.

Design of water Supply Project for Ethiopia Town, Kibre Mengist 2006/2007

Design of water supply and Sanitation System for Marawai Dam project 2006/2007.

Water Supply & Wastewater system for Heart Hospital at Wad Medani 2006/2007

Water Supply & waste water project for Thar Jath hospital

2002-To 2006 - Design and Supervision of Kenana Sugar Township and Factory Sewerage System (60,000m³/d).

- Design of sewerage project for Khartoum Refinery Company at El Geili (1800³/d).
- Design and supervision of Sewerage Project for oil factory (SaFoLA) at Khartoum.
- Design of Sewerage System for GNPOC pumping stations.
- Design of Sewerage System for Merowi Dam residential Camp.
- Design of Sewerage System for five towns in Losetho (South Africa)
- Design and Supervision of water supply and Sewerage System Load Dispatch Centre (LDC), National electricity Co-operation (NTC).

- Environmental Impact Assessment for dust particulate effects on Merowi turbine units.
 - Design and Supervision for water supply and sanitation System for residential complex of NTC at Geri (Geili)
 - Water Supply and Sanitation System for the Master plan of White Nile Sugar Project.
- 1996 – 2002 Senior Consultant, Water & Sanitary Engineering, .
Responsible for design and construction supervision of water distribution and sanitation for various industrial and building projects such as:
- . Arab Sudanese Vegetable Oil & Soap Project.
 - . Sudanese Korean Vocational Training Centre.
 - . White Nile River Front Development Project.
 - Kenana Factory and Township Development Plan Project.
 - El Roubi Agricultural Production Township and Factory.
 - Master Plan for Towns of Southern Kordofan State.
 - GNPOC projects at Heglig , Geili and Headquarter.
 - PortSudan. El Obeid, El Fasher ,Omdurman water supply Projects.
- 1994 –1996 Expert ,Arab Bank for Economic Development in (BADEA),
Waste Water Authority, Mauritius.
Responsible for:
- (One) Managing and organising the following major sewerage projects in study, design, tender documents and implementation stages:
- . Urgent Improvement Works for existing sewerage facilities in urban areas of Mauritius (Project value US\$ 12 M).
 - . New sewerage facilities for tourist resort at Grand Baie (PV = US\$ 20M).
 - . Sewerage facilities at Baie du Tombeau area comprising pumping stations, sewer networks, Treatment Plant and marine outfall (PV = US\$ 10 M).
 - . Extension of Treatment Plant at St. Maartin to Tertiary level including irrigation systems (PV = US\$ 27 M).
- (Two) Supervising the Pollution Control Unit where effective monitoring is required to control the discharge of waste water to sewers, rivers and water courses in order to secure compliance with required effluent standards.
- (Three) Reviewing Environment Impact Assessment (EIA) reports for different undertakings in the country.
- 1991 – 1994 Associate Professor , Civil Engineering Department, University of Khartoum.
- (One) Associate Professor for environmental engineering in the Civil Engineering Departments for both undergraduate and graduate courses.

- (Two) Consultant for the wet utilities of the University of Khartoum and other new Universities compounds.
- (c) Being associated with private firms for some major projects such as:
- . Community water supply and sanitation project for rural areas of Khartoum sponsored by World Health Organisation.
 - . Design and supervision of water and drainage systems for multi-storey buildings in Khartoum including hospitals, banks and other commercial complex.
 - . Consultant of wet utilities for Arab Organisation for Agricultural Development building.
 - . Consultant with Kuljian from U.S.A. for the study of Desalination plant for Port Sudan.
- 1988 – 1991 Expert, High Commission for Development of City of Riyadh-Saudi Arabia.
- One) Task leader for the team responsible to assess the municipal infrastructures as far s the wet utilities were concerned and the current water use practices for the City of Riyadh. The work covered the following aspects:
- . Leakage tests and assessment form drinking water networks.
 - . Infiltration from foul water sewers and storm water sewers into sub-soil strata.
 - . Aspects of domestic water conservation and preventive programmes for solving the rising groundwater in the city.
- Two) Task Leader for water quality programme and co-ordinator for water resources management for Wadi-Hanifah catchment area.
- Reviewer (to date) for the research study projects of wet utilities in Saudi Arabia sponsored by King Abdul Aziz City for Science and Technology in Riyadh.
- 1980 - 1988 Lecturer and Consultant, Civil Engineering Department, University of Khartoum and associated with Local Engineering firms.
- 1979 - 1980 Project Manager, Concorp, International Kampala, Uganda.
- 1975 – 1979 Senior Engineer, National Urban Water Corporation, Khartoum.
- 1971 - 1975 Assistant Engineer, National Urban Water Corporation, Khartoum.

CONFERENCES ATTENDED:

- 1993 Consultation meeting - UNISCO Project on Development of Series learning materials in Engineering Science; Polytechnic University CATALONIA, Barcelona, Spain.
- Dec. 1992 Training Seminar on Environmental Impact Assessment organised by Alesco and World Bank and Institute for environmental studies Ain-Shams University, Cairo.
- Sept. 1992 Regional Water Supply and Sanitation Seminar AMREF (NETWAS), Naro-Moro, Kenya.
- 1991 Sub-regional course on environmental impact assessment of hydrological projects - UNESCO- Ain Shams, University of Cairo.
- May 1991 UNESCO/Col Consultation meeting in environmental engineering, Port of Spain, Trinidad.
- 1987 Inter Country meeting of Director of environmental health training and research, Riyadh.
- 1986 International Conference on water resources needs and planning in drought prone areas, Khartoum.
- 1984 International Seminar for water resources management practices, Ilorin, Nigeria.
- 1981 Water Quality modelling and Monitoring, WMO, Nairobi, Kenya.

PUBLICATIONS AND TECHNICAL REPORTS:

“Water Losses from Municipal Utilities and their Impacts” Water International 16 (1991) 254 - 261 IWRA, U.S.A.

“Modelling drained solids matter and salt transport through deep aquifers” proceedings of international workshop on the application of mathematical models for the assessment of changes in water quality, Tunis May 1990.

“Factors influencing per capital water consumption in urban areas of developing countries” Journal of International Water Resources Association (IWRA), 1988.

“Management of urban water supply demand in arid developing countries” proceedings of the International Conference on Water for the future, Italy 1987.

“Assessment of water resources systems for semi-arid Savannah urban region” Proceedings of International Conference on water resources needs in drought prone areas, Khartoum 1986.

“Water Resources in Sudan” A book published by National Council of Research, Khartoum, Sudan 1982.

“The Man-Made Environment” Technical report for the rising ground water management study for City of Riyadh, 1990.

“The Public Health Aspects of the rising ground water” Riyadh, 1990.

“Domestic Water Conservation” issued jointly with Water Engineering and Development Centre (WEDC), Loughborough, United Kingdom, 1990 Riyadh.

تقييم أوراق علمية للمؤتمر الشبابي العلمي الأول في مجال المياه بالسودان – يوليو 2008 .

1- تقييم وتعديل برنامج بكالوريوس الشرف لهندسة المياه والبيئة لجامعة السودان "ود القبول" 2008 .

2- تقييم بحوث علمية من مدينة الملك عبد العزيز للعلوم والتقنية بالمملكة العربية السعودية بالرياض في مجال المياه والصرف الصحي (2000 – 2010) (أكثر من عشرة أبحاث علمية) .

Biological Method for Treatment of Petroleum Produced Water in Sudan (Heglig Oil field), Published in Sudan Engineering Society Journal (2009)

- 1- Sanitation Systems and their Environmental Effects on Urban and Rural Communities in Khartoum State
Accepted for Publication in Sudan Engineering Society Journal.

Dr Mohamed Ahmed Adam Khadam
Associate Professor ,
Civil Engineering Department,
University of Khartoum
e-mail : adamkhadam 1947 @ gmail.com
Mobile : 00249 912901306