



# THE ACEK NEWSLETTER

ISSUE 04 | APRIL 2021



## Trending News:

New ACEK Council | Virtual FIDIC Contracts Training

## Chairman's Note



A warm word of welcome to our new council members as we release our fourth edition of the ACEK Newsletter. The year 2021 has picked well with council and members trying their best to show resilience in the face of the third wave of the pandemic. I take this opportunity to thank ACEK Members and the Council for my re-election as the ACEK Chairman 2021-2022. The re-election cements your faith in my leadership during this unprecedented time. With the New Council and Committee chairpersons in place, together we will up our game to deliver on our promises.

With the new normal of virtual trainings, meetings and operations, our programs

are well on course. The Capacity Building and Training Committee has scheduled FIDIC trainings to be held virtually in May, July, and November 2021 respectively. The Training in May on "Business Practice" is targeting consultants and consulting engineering firms. We urge members to register for the training. Currently we have some 18 copies of the FIDIC Guide to Practice, **The Business of a Professional Services Firm** - 2015 Edition Publication at the Secretariat for members to purchase.

Other than the traditional FIDIC Modules 1,2,3,4 and 5, our Training Committee has introduced two new one-day courses, **The Role of the Engineer** and **Introduction to Construction Claims and Dispute Resolution**. We look forward to all members to directly participate or send participants for these new courses.

We are evolving and transforming the engineering sector.

**Enjoy the read,**  
Eng. Henry A. Ndugah  
Chairman ACEK



## Inside this Issue

Page 02

Future Proofing Roads

Maintenance Financing in Kenya

Page 04

Basics of Air Management in  
Liquid Transmission Systems

Page 06

New ACEK Council Members

Page 07

ACEK Future Leaders  
Committee 2021

Page 10

Virtual FIDIC Contracts  
Training Courses - EBK  
Approved Courses

# Future Proofing Roads Maintenance Financing in Kenya: Prospects and Potentials for Fifth Generation (5-G) Roads Fund Model

By Eng. Ochieng O-A Meshack, PhD – Transport Consultant



The need to meet the demand for quality road infrastructure amidst the ever growing funds deficit present the most critical challenge confronting the Kenyan government and one that calls for innovative and transformative financing instruments to fund road infrastructure development and maintenance. While the dominant source of revenue to the Road Maintenance Levy Fund (RMLF) is the fuel levy, the Government of Kenya has begun to explore new sources of funds to ensure a sustainable and stable flow of funds (both in time and quantity) into the maintenance budget kitty. Plans to raise funds through selling of bonds backed by the fuel levy are also underway as well as continued reliance on other debt and equity instruments in the form of grants and loans from multilateral agencies.

This brief provides an overview of the Fifth Generation Roads Fund (5-G) as a prospective road maintenance financing model and its potential to bridge the funds deficit in Kenya. The 5-G model (as shown in Figure 1) provides an opportunity through which the government can widen the roads funds base through proportionate tapping of earmarked tax-revenue system comprising of propulsion (fuel and battery) taxes, user and non-user charges/vignettes, consumption taxes and land value capture which have remained unexploited over the years. This piece intends to provoke thought and spark action, inspire decision-makers within the transport/road infrastructure industry to collectively shape a more cohesive, resilient and sustainable funding mechanism.

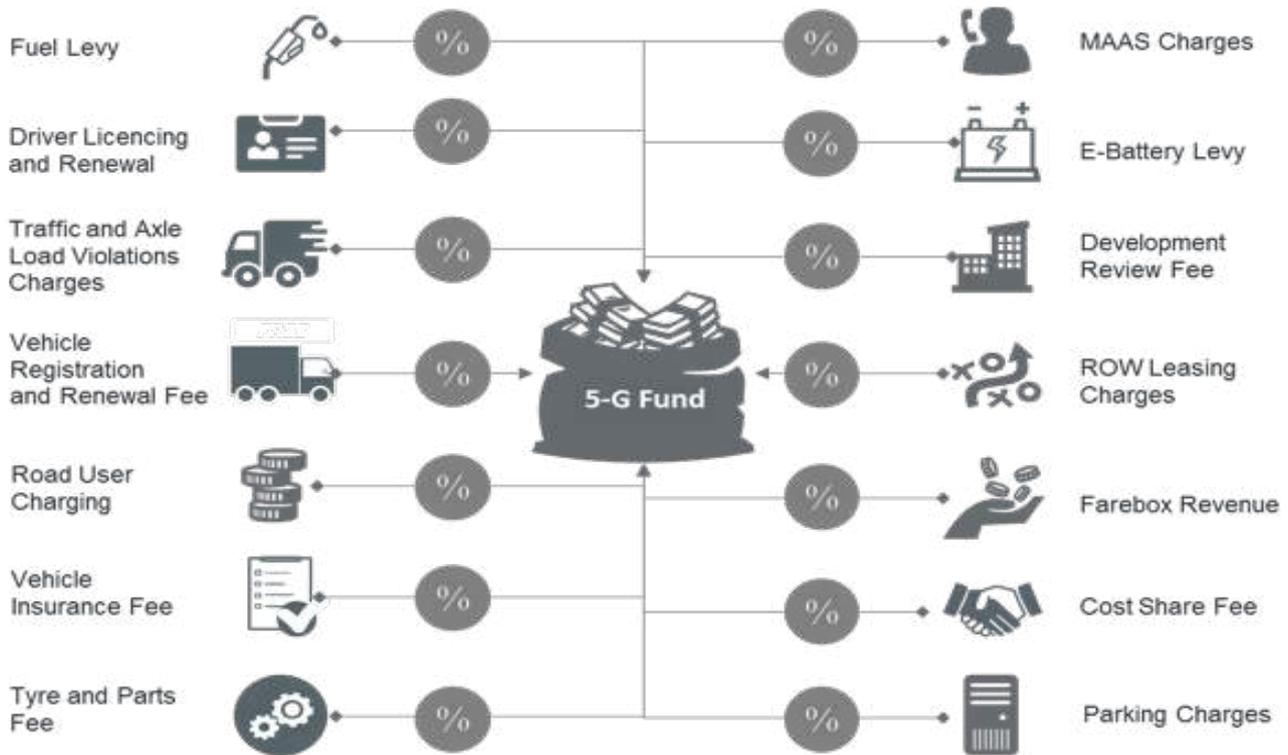


Figure 1: The 5-G Roads Fund Model

When adequately framed and institutionalized, the 5-G roads fund model presents a considerable opportunity through which a significant domestic funding sources can be unlocked in addition to the existing fuel levy. A high-level back-of-the-envelope estimate of the potential annual revenue that would be generated in Kenya is presented in Table 1, derived based on best practice guidance where the 5-G roads fund model have been practiced in particular

(the New Zealand National Land Transport Fund, the Japan Road Improvement Special Account, the US Federal Highway Trust Fund, the Canadian Strategic Infrastructure Fund, the Chinese Silk Road Fund, the German Transport infrastructure Financing Fund and the Russian Federal Road Funds among others). If only 30% of the annual collections are channeled to the fund, there is a potential of growing the existing fund base of about Kshs72billion by over Kshs30 billion.

These are modest estimates and as the demand for transport increases in terms of vehicle registrations/ insurance, driver licenses, public transport ridership, traffic violation fines etc.), there is even a stronger case that if well institutionalized, 5-G financing instruments can tap over Kshs50 billion annually into the roads maintenance kitty.

Category	Parameter	Unit Rate (KShs)	Annual Collection (KShs)	Total (KShs)
Driver Licensing	5,000,000 <sup>1</sup>	3,000	15,000,000,000	4,500,000,000
Driver License renewal	2,000,000 <sup>1</sup>	1,500	3,000,000,000	900,000,000
Vehicle Registration and Licensing	3,000,000 <sup>2</sup>	5,000	15,000,000,000	4,500,000,000
Vehicle License Renewal	200,000 <sup>2</sup>	2,000	400,000,000	120,000,000
Vehicle Ownership Transfer	10,000 <sup>2</sup>	1,000	10,000,000	3,000,000
Road User Charging (Tolling and Emission)	20,000 <sup>3</sup>	600	4,380,000,000	1,314,000,000
Traffic Fines, Speeding & Other Violations	200,000 <sup>4</sup>	500	36,500,000,000	10,950,000,000
Parking Fee	400,000 <sup>5</sup>	150	21,900,000,000	6,570,000,000
Public Transport	200,000 <sup>6</sup>	50	3,650,000,000	1,095,000,000
Vehicle Insurance	3,000,000 <sup>7</sup>	1,000	3,000,000,000	900,000,000
Development Fee	1,000 <sup>8</sup>	20,000	20,000,000	6,000,000
Right of Way (ROW) Leasing (Advertisement and others) Fee	1,000 <sup>9</sup>	2,000	2,000,000	600,000
Axle Load Fines	100 <sup>10</sup>	1,000	36,500,000	10,950,000
E-Battery Charges	100 <sup>11</sup>	500.00	18,250,000	5,475,000
MAAS Providers Fee	1,000 <sup>12</sup>	3,000.00	3,000,000	900,000
<b>Total</b>			<b>102,898,500,000</b>	<b>30,875,925,000</b>

*Assumptions: <sup>1</sup> 5 million driver licenses issued with 2 million annual renewals; <sup>2</sup> 3 million vehicle licenses with 200 thousand and 20 thousand as annual renewals and transfers; <sup>3</sup> 20 thousand vehicles paying a toll fee of Kshs600 daily; <sup>4</sup> 200 thousand traffic violation fines; <sup>5</sup> 400 thousand vehicles paying a parking fee of Kshs150 daily; <sup>6</sup> a daily public transport ridership of 20,000; <sup>7</sup> 3 million vehicles insured per year; <sup>8</sup> only 1000 development applications annually; <sup>9</sup> only 100 ROW leases annually; <sup>10</sup> Axle load fines; <sup>11</sup> anticipation of e-vehicles with 100 electric vehicles; <sup>12</sup> an annual license fee of Kshs3000 for 1000 Mobility as a Service vehicles.*

In conclusion, where it has been adopted, 5-G roads fund model has not only proved to be a very pragmatic and transformative financing instrument but also offers an opportunity for a sustainable and stable funds flow for roads maintenance. Its adoption and operationalization in Kenya requires considerable reforms that touch on expanding the legal mandate of the board charged with the responsibility of managing

the fund, institutional realignments, streamlining the traffic and axle load violation fines payment mechanisms, adoption of technology in road user charging, widening the base to include additional stakeholders, sensitivity to post fossil fuel vehicles, micro and travel mobility measures and the public sector engagement.

# Basics of Air Management in Liquid Transmission Systems

By Eng. Elisha Omega, Doshi-Water/ARI valves



The country continues a strong infrastructure development agenda despite a slow down due to the Covid-19 pandemic. The country is on a recovery path which unfortunately is now being confronted by the 3rd wave of the Covid-19 pandemic. Air valves are

important accessories for air management in liquid (water) transmission systems. They ensure that the water will flow at the effective cross-sectional area and deliver designed flow rates. Air pocket accumulation causes energy losses and an associated capacity reduction.

Air valves are universally recognized as the most effective airflow control appurtenances for liquid conveyance and treatment systems in general. Their contribution to efficient liquid flow, to energy savings and to down-surge suppression is widely acknowledged. Air valves, collectively, are often misnamed as "Air release valves", "Double air valves", "Single air valves" or less frequently as "vacuum breakers".

## Types of Air Valves

There are three basic types of air valves that function differently and serve different objectives.

### Air Valve Location

Proper location of air valves in a pressurized liquid conveyance system can improve flow performance greatly, providing efficient, energy saving, and safe supply.

The rule-of-thumb methods, which are mostly used, are partial and do not put enough emphasis on the sources of air to the system. The following are major sources of entry of air in pipelines:

- Pumps, for instance, are a major source of air to pipelines. Submersible pumps including borehole pumps usually have large columns of air that should be kept from reaching the piping system. Pumps pumping from wet wells, rivers, and lakes suck in air through a vortex at the suction intakes. In addition to this atmospheric free air, dissolved air in the water is released from solution due to pressure drops within the pump caused by turbulence and

## Types of Air Valves

There are three basic types of air valves that function differently and serve different objectives.



**Large Orifice Air valve**  
**Kinetic Air valve**  
**Air/Vacuum Air valve**

### Function

Discharges large quantities of air from the pipeline at pipe filling and admits large quantities of air at pipe drainage (planned or due to rupture) or at water column separation. This air valve closes when the pipe fills up with liquid and does not reopen until pressure within the air valve (pipeline) drops below atmospheric pressure.



**Small orifice Air valve**  
**Automatic Air valve**  
**Air-release valve**

### Function

This air valve continues to release small quantities of air when the system is pressurized, and the Large Orifice Air Valves do not function.



**Combination Air valve**

### Function

Performs the functions of the two types of air valves above .

- temperature rises within the pump.
- At points of pressure drop along the line, such as at pressure reducers, at pipe diameter reducers, at accessories that cause significant head losses and areas of turbulence, dissolved air is released from solution.
- At pipe and accessory connections that are not properly sealed, atmospheric air can penetrate during pressure drop events.
- These are some examples of air sources in pipelines; installing automatic air valves or combination air valves after these sources is vital.

## Air Valve Sizing

Rule-of-thumb methods popularly used are not

effective in air valve sizing; such methods focus mainly on air-valve orifice size without considering several critical factors including the air valve air discharge/intake capacities. Proper sizing of air valves is essential for effective, efficient, and safe air control.

In determining the discharge capacity of air valves when the pipeline is pressurized, a value of 2% of the operational water flowrate can be used, based on 2% solubility of air in water. Kinetic, large orifice air discharge requirements are usually based on the pipeline fill-rate, and are equal to the designed pipe filling flowrate.

Air intake flow rate requirement is equal to the rate of drainage through the drain valve (washout) or through the pipe rupture. Rupture analysis determines the air intake capacity required to prevent damages caused by vacuum and down-surge, during pipe ruptures and planned or incidental pipe drainage.

#### Advanced Air Valve Sizing and Location

From the information above, Air valves, which are often collectively misnamed as "Air release valves", "Double air valves", "Single air valves" or "Vacuum breakers" play a vital role in effective conveyance

of water and should be treated with importance, especially at design stage.

The calculation of air intake/discharge requirements for all air valves on very long lines or systems, can be very difficult and time consuming. For this reason, some of the air valve manufacturers developed computer programs to aid in the sizing, and, sometimes, both, sizing, and location of air valves. A.R.I. developed a user friendly, yet comprehensive computer program, the ARIavCAD, designed to aid in sizing and location of air valves, for water and wastewater pressurized systems. This program offers the designers different types of analyses for the location and sizing of air valves by performing Fill-rate analysis, Spacing Analysis, Drainage analysis, Rupture analysis and Water Column separation analysis. ARIavCAD is web-based and can be accessed at <https://www.ariavcad.com>

#### References:

Naftali Zloczower,"Pressure Surges and Air Valve Specification, Location, and Sizing," A.R.I Flow Control Accessories

## CONGRATULATORY NOTE:



Congratulations are due to ACEK member and FIDIC Board Member Eng. James N. Mwangi on his appointment by the Kenyan government as part of the expert taskforce on the review of power purchase agreements. He is the only consulting engineer on the taskforce and his appointment recognises the excellent contribution he has made in the industry over many years and also as the FIDIC board member in Africa. Well done on his appointment.

### THE EVENTS CALENDAR 2021

28 <sup>th</sup> April	<b>Renewable Energy – Creating a greener Future</b>
1 <sup>st</sup> May	<b>World Environment Day</b>
18 <sup>th</sup> -19 <sup>th</sup> May	<b>FIDIC Africa Annual Conference</b>
26 <sup>th</sup> - 27 <sup>th</sup> May	<b>FIDIC Guide to Practice - The business of a professional Services Firm</b>
16 <sup>th</sup> June	<b>Project Finance – PPP and other Infrastructure Financing Models</b>
22 <sup>nd</sup> -23 <sup>rd</sup> July	<b>FIDIC Training Mod 1</b>
26 <sup>th</sup> -27 <sup>th</sup> July	<b>FIDIC Training Mod 4</b>
12 <sup>th</sup> -14 <sup>th</sup> Sept	<b>FIDIC Annual Conference</b>
25 <sup>th</sup> 26 <sup>th</sup> Nov	<b>FIDIC Training Mod 2</b>
29 <sup>th</sup> -30 <sup>th</sup> Nov	<b>FIDIC Training Mod 3</b>
09 <sup>th</sup> December	<b>ACEK Annual Dinner</b>

### UPCOMING ACEK ACTIVITIES (APRIL/MAY)

1. Renewable Energy Webinar
2. FIDIC Guide to Practice Training

*For more information please contact*  
**The ACEK Secretariat 0717191593**  
**[acek@acek.co.ke](mailto:acek@acek.co.ke)**

# New ACEK Council Members



**Eng. Henry A. Ndugah**  
*Chairman*



**Eng. Solomon M. Kitema**  
*Hon. Treasurer*



**Eng. Patrick S. Wambulwa**  
*Hon. Secretary*



**Eng. Gurmeet K. Bambrah**  
*Member*



**Dr. Eng. Siphila Mumenya**  
*Member*



**Eng. Jane Mutulili**  
*Member*



**Prof. Eng. Lawrence Gumbe**  
*Member*



**Eng. Matu Mwangi**  
*Member*



**Eng. Gabriel Jabongo**  
*Member*



**Eng. Tom Opiyo**  
*Member*



**Aluora Kenneth**  
*Member*



**Lillian Ogombo**  
*CEO*

## ACEK COMMITTEES

### EXECUTIVE COMMITTEE (EC)

Eng. Henry A Ndugah - Chairman  
Eng. Patrick S. Wambulwa- Hon. Secretary  
Eng. Solomon M Kitema- Hon. Treasurer

### ADVOCACY (POLICY, STANDARDS AND ETHICS COMMITTEE)-PSE

Eng. Gurmeet Bambrah - Chair

### CAPACITY BUILDING & TRAINING COMMITTEE (CBT)

Eng. Jane W. Mutulili – Chair

### MEMBERSHIP & HUMAN RESOURCE COMMITTEE (MHR)

Eng. Gabriel Jabongo - Chair

### RESEARCH & PUBLICATION COMMITTEE (RPC)

Dr. Eng. Siphila Mumenya - Chair

# ACEK Future Leaders Committee 2021

The Future Leaders (FL) team have had their election in which Mr Aluora Kenneth was elected the chairperson assisted by other members of the committee (shown in the photos attached). Mr Aluora is expected to take the connection between the FL and ACEK a notch higher. This will go a long way in ensuring the establishment of the much needed mentorship for the Future Leaders.

ACEK is committed to helping the future leaders navigate their way through and around the engineering industry.



**Aluora Kenneth** | *Chairman*

Aluora Kenneth is a Civil Engineer with Procon Consulting Engineers Limited. He holds a BSc. Civil Engineering Degree from Jomo Kenyatta University of Agriculture & Technology and has been a Member of ACEK Future Leaders since its inception. Aluora is a Graduate Engineer registered under Engineers Board of Kenya.



**Simon Ochieng'** | *Vice Chairman*

Simon Ochieng' is a Mechanical Engineer who holds a BSc Mechanical Engineering degree from The University of Nairobi. Mr. Ochieng' is a Graduate Mechanical Engineer at Comfort Build Engineers Ltd.



**Stephanie Wanjiku Gituru** | *Treasurer*

Stephanie Wanjiku Gituru is a registered Graduate Engineer with the Engineers Board of Kenya. She holds a B.Eng Degree in Civil and Structural Engineering from Moi University and a Master Degree in Production and Environmental Engineering majoring in Transportation and Traffic Engineering from Ehime University, Japan. She works with Gibb Africa Limited.



**Anderson Wambugu** | *Secretary*

Anderson Wambugu is a skilled and experienced Civil Engineering and Project Management professional with extensive practical contact in the Real Estate and Property Development industry in Kenya and the East Africa region. Mr. Wambugu works with Fig Engineering services and holds a BSc. Civil Engineering degree from the University of Nairobi.



Live Webinar

## Energy Transition: Renewable Energy in Kenya

Renewable Energy - potential and challenges in Kenya. Promoting Public-Private Dialogue on the barriers and drivers of renewable energy investments in Kenya.

28 APRIL 2021  
2:30 - 5:00 PM



**Register**  
ACEK Members &  
Future Leaders **Kshs. 1000**  
Non - Members **Kshs. 1500**



**Prof. Izael Da Silva**

Director of the Strathmore Energy  
Research Centre, Strathmore University

Moderated by  
**Eng. James Mwangi**

## BECOME A MEMBER



ACEK offers numerous benefits and keep the membership on top of important, ever hanging issues and trends in the sector.

### 1. Advocacy

Close liaison with government and other industry bodies on contractual and legislative issues. Lobbying for better procurement laws.

### 2. Networking & Knowledge Sharing with other consulting engineers both locally and globally.

ACEK organizes a number of events throughout the year, both local and internationally being a member of FIDIC Africa and FIDIC.

### 3. Business Support to Members

Identification and Sharing of business

opportunities. Access to database of regional and international consulting firms.

### 4. Capacity Building

ACEK has well-coordinated local and international industry specific training. Members enjoy discounted training rates.

### 5. Becoming a member of both FIDIC and FIDIC Africa through ACEK

ACEK is a member of FIDIC and Africa. Members automatically become members of these international organizations through ACEK.

### 6. Public and Private Sector Support

The association acts as a public watchdog on engineering issues and acts as an interface between the public and consulting engineers.

## ELIGIBILITY REQUIREMENTS FOR MEMBERSHIP

- ACEK Members profess to possess the relevant qualifications, expertise and facilities to offer the highest quality of service in their engineering disciplines of expertise while adhering to the highest ethical and professional standards.
- To join ACEK, an Engineer must be registered with the Engineers Board of Kenya (EBK) in the category of Registered Consulting Engineer.
- Must be a corporate member of the Institution of Engineers of Kenya (IEK)
- Must be actively practicing engineering as a partner, director or sole principal in a firm registered as a legal entity under the Laws of Kenya.

## VIRTUAL FIDIC CONTRACTS TRAINING COURSES - EBK APPROVED COURSES

### **FIDIC Guide to Practice 26th – 27th May 2021**

The business of a professional Services Firm

### **Module 1 - 22nd – 23rd July 2021**

(The Practical use of the 2017 FIDIC Conditions of Contract for Construction – Red Book and Design & Build – Yellow Book)

### **Module 4 - 26th -27th July 2021**

“The Contract Management & Administration of the 2017 FIDIC Conditions of Contract”  
(Construction Contract and Plant& Design-Build)

### **Module 2 - 25th - 26th November 2021**

(Management of Claims and Dispute Resolution Under the FIDIC Contracts Red and Yellow Book 2017)

### **Module 3 - 29th - 30th November 2021**

Understanding DABs- The program aims to: - explain the use of DABs in the FIDIC 2017 Construction and Plant and Design-Build Contracts and the application of Dispute Board rules and procedures.

## WHO SHOULD ATTEND?

The courses provide the necessary knowledge for, and targets, professionals from Government Ministries and its Agencies, Private Sector Employers, Consulting Engineers, Contractors, Quantity Surveyors and Architects, Legal Advisers in the construction sector, and ALL those involved with the procurement, implementation and management of large Works Contracts

## COURSE MATERIALS

All delegates will be provided the following materials, in English:

- Soft copy of presentation
- Soft copy of case studies
- CPD Accredited Certificate for 12 EBK PDU points per module

## TO BE PURCHASED BY PARTICIPANTS

- Hard copy of Red and Yellow Books from ACEK Office
- Soft copy of FIDIC Red and Yellow Books ([www.fidic.org/bookshop](http://www.fidic.org/bookshop) )

## COURSE RECOGNITION

Association of Consulting Engineers of Kenya (ACEK) is fully accredited as a CPD provider and the courses validated by Engineers Board of Kenya. 12 Professional Development Units (PDUs) will be awarded per course.

The training is FIDIC accredited and the trainer is fully FIDIC accredited. Each participant will receive a certificate of attendance per module

**For more details, get in touch with ACEK Secretariat on Tel: +254 020 2249085**  
Mobile: +254 717191593 | E-mail : [aceksecretariat@gmail.com](mailto:aceksecretariat@gmail.com), [acek@acek.co.ke](mailto:acek@acek.co.ke)



26th -27th May 2021

# FIDIC GUIDE TO PRACTICE TRAINING COURSE

The Business of a Professional Services Firm

## ACEK

The Association of Consulting Engineers of Kenya (ACEK) is a membership organization which was founded in 1968. Its main objective is to promote the advancement of the professionalism within the consulting engineering sector & cooperation among consulting engineers. As the local affiliate of FIDIC, ACEK has been organizing FIDIC Contracts Courses since 2012 & has trained over 800 participants.

## Course Overview

(In Summary)

This training has been put in place in the interest of assisting FIDIC member organizations and their member firms to adopt contemporary management practices and in response to client encouragement for standardized approaches to scope definition for quality management and business development. The Business Practice module address business topics such as Risk management, Integrity management, Sustainable project management, among others

## Who Should Attend

The course is aimed at individuals & consulting engineering companies who are currently working with or are interested in working with FIDIC contracts

## Course Materials

All delegates will be provided the following materials, in English:

- Soft copy of presentation
- Soft copy of case studies

To be purchased by the participant

- Hard copy of Guide to Practice Book from ACEK Office

## Event Details

Date: 26th - 27th May 2021

Venue: Online (Zoom)

Time: 8:30am- 4:30pm

## Facilitator

Eng. Kevin Spence: a registered Professional Engineer, Mediator, Adjudicator and Arbitrator with over 40 years' experience in the Construction Industry. His experience spans across Freeway Construction, Airport Runway Rehabilitation, Dams & Water Retaining Structures, Pipelines, Civil & Building Construction, Concrete Structures, Asphalt & Concrete Road Surfacing & most recently Claims Preparation & Defence. Eng. Spence is an admitted member of the FIDIC President's List of Adjudicators. He is an expert on the FIDIC suite of contract documentation. He is a FIDIC Accredited Trainer based in South Africa.

## Course Recognition

Association of Consulting Engineers of Kenya (ACEK) is fully accredited as a CPD provider and the courses validated by Engineers Board of Kenya. The training is FIDIC accredited and the trainer is fully FIDIC accredited. Each participant will receive a certificate of attendance per Module

## Course Fees

Registration & payment of fees closes a week before the course begins

FIDIC Guide to Practice	Fee	VAT 16%	Total	EBK PDUs
ACEK Members	40,000.00	6,400.00	46,400.00	12
ACEK Future Leaders (FL)	30,000.00	4,800.00	34,800.00	12
NON-MEMBERS	45,000.00	7,200.00	52,200.00	12
Guide To Practice	22,950.00			

\* Registration link to be shared upon full payment

LIPA NA M-PESA 5181749  
TILL NO

For further information  
Please contact

ACEK Secretariat Commodore Office Suites, 6th Floor, Suite 6H, Kindaruma Road, Kilimani  
t: +254 020 2249085 | m: +254 717191593 | e: aceksecretariat@gmail.com | acek@acek.co.ke

# Available FIDIC Publications

**EPC/Turnkey Contract (Silver Book) 2<sup>nd</sup> Ed 2017**

**Plant and Design-Build Contract (Yellow Book) 2<sup>nd</sup> Ed 2017**

**Construction Contract (Red Book) 2<sup>nd</sup> Ed 2017**

**Design-Build-Operate Contract (Gold Book)**

1<sup>st</sup> Ed 2008

**Short Form of Contract (Green Book) 1<sup>st</sup> Ed**

1999

**Construction Contract MDB Harmonised Ed**

**(Pink book) Version 3: June 2010 Harmonised Red**

Book

**FIDIC Golden Principles Free**

**Construction Subcontract 1<sup>st</sup> Ed 2011**

**Client-Consultant Agreement (White Book) 5<sup>th</sup>**

Ed 2017

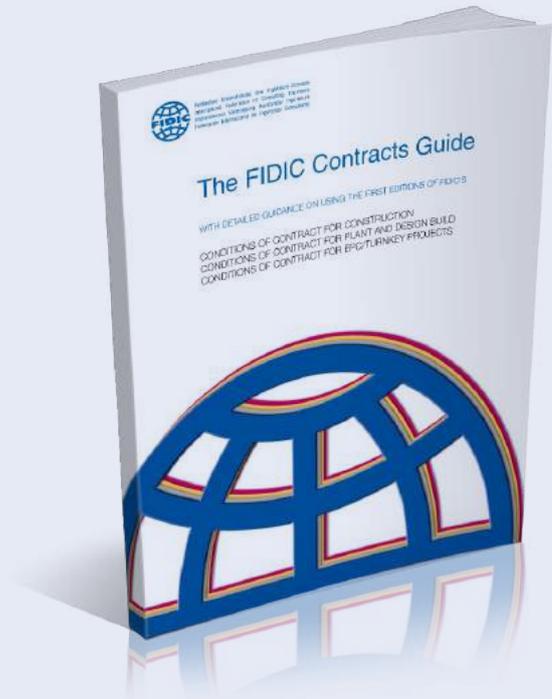
**FIDIC Procurement Procedures Guide 1<sup>st</sup> Ed 2011**

**FIDIC Contracts (1999 editions) Guide 1<sup>st</sup> Ed 2000**

**Sub-Consultancy Agreement 2<sup>nd</sup> Ed 2017**

**DBO (2008 Gold Book) Contract Guide 1<sup>st</sup> Ed 2011**

**FIDIC Guide to Practice, The Business of a Professional Services Firm 2015 Edition**



## EDITORIAL TEAM

- I. Dr. Eng. Siphila Mumenya - Editor in Chief
- II. Eng. Tom O. Opiyo - Member
- III. Prof. Eng. Larry Gumbe - Member
- IV. Hon. Eng. Nicolas Gumbo - Member
- V. Eng. Nancy Abira - Member
- VI. ACEK Secretariat

A quarterly magazine published by ACEK. Members and partners are invited to **contribute articles** as well as **advertise**.



**Contact Us:** Commodore Office Suites 6H, P.O Box 72643 – 00200, Nairobi, Kenya.  
Tel: +2540202249085 | Mobile: 0717191593 Email: [acek@acek.co.ke](mailto:acek@acek.co.ke) | [www.acek.co.ke](http://www.acek.co.ke)