

## **Curriculum Vitae: Eng. Jeremiah K. Kiptala**

### **December 2012**

Full Name: Eng. Jeremiah K. Kiptala; Master of Science (Water Resources Management), Bachelor of Science (Civil Eng), Registered Engineer (Engineers Registration Board, Kenya), Corporate Member Institute of Engineers of Kenya

Date of Birth: 8<sup>th</sup> December, 1976

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Status: Married

Nationality: Kenyan

Language: English, Kiswahili, Kalenjin

### **Background Information**

I am 36 years old Civil Engineer specialized in water resources and environmental engineering with over 10 years experience. I began my professional career after graduate studies in the year 2000, working in engineering consultancy on the design and supervision of various water related projects. I later joined National Water Conservation and Pipeline Company (NWPC), Ministry of Water and Irrigation in 2003 as a civil engineer engaged in water resource developments that included construction of water storage facilities, boreholes, and flood control in Tana and Ewaso Ngiro River basins. It was during this period that I was enrolled at the UNESCO Institute for Water Education, the Netherlands to pursue Master of Science Programme in Water Management. I graduated in April 2008 with a Master's of Science (MSc) degree in Water Management with distinction, specialization Water Resources Management. My MSc research thesis is titled 'Intersectoral Water Allocation in Tana River Basin, Kenya'. After Postgraduate studies; I was appointed the Project Engineer for the implementation of Maruba Dam Project, NWPC. The Project was successfully completed in May 2010.

Thereafter, I was enrolled as a PhD Research Fellow at the Department of Integrated Water Systems and Governance, UNESCO-IHE, Delft, the Netherlands. The PhD research project is titled: Managing Basin Interdependencies - Understanding tradeoffs and synergies in the Pangani River Basin, Kenya / Tanzania". Later, I joined Jomo Kenyatta University of Agriculture and Technology (JKUAT) as a lecturer at the department of Civil, Construction and Environmental Engineering after successful completion the first phase (research proposal) of the PhD research. My teaching and research specialization are water resource management (includes irrigation & hydropower development) and integrated watershed & conflict management in a river basin.

## Professional Association

- I. Registered Engineer with Engineers Registration Board of Kenya (ERB).
- II. Corporate Member of Institute of Engineers of Kenya (MIEK).

## Papers

- I. Kiptala, J., A. Tilmant and P. van der Zaag, 2010. Intersectoral water allocation in the Tana River basin, Kenya. Paper presented at the 11th WaterNet/WARFSA/GWP-SA Symposium "IWRM: for national and regional integration – where science, policy and practice meet", 27-29 October, Victoria Falls.
- II. Kiptala, J., Y. Mohamed, M.J.M Cheema, M. Mul, P. Van der Zaag, 2011. Land use and land cover classification using phenological variability from MODIS vegetation in the upper-Pangani River basin, Kenya / Tanzania. Paper presented at the Annual PHD seminar, UNESCO-IHE, 17-19 September, Delft, Netherlands.
- III. Kiptala, J., Y. Mohamed, M. Mul, P. Van der Zaag, 2012. Evaporative water use in the upper-Pangani River Basin based on remote sensing data. Paper presented at the 13th WaterNet/WARFSA/GWP-SA Symposium on Integrated Water Resources Management 31 October - 2 November, University of Johannesburg, Johannesburg, South Africa.

## Professional Experience

**May 2011 -To - Date:** Lecturer - Jomo Kenyatta University of Agriculture and Technology, Department of Civil, Construction and Environmental Engineering.

**May 2010 -To - Date:** Research Fellow - UNESCO Institute for Water Education, Department of Management and Institutions. PhD research and supervision of MSc students undertaking research activities in the University.

**May 2008 – To – April 2010:** Project Engineer, Maruba Dam Project for Machakos Water Supply System, NWCP, Ministry of Water and Irrigation.

The scope of the work involved the rehabilitation of the Maruba dam by increasing the reservoir capacity by 2 Million cubic meters and expansion of water supply facilities. The project cost was approximately Kshs. 400 Million.

### Duties and Responsibilities:

- Preparation of design and construction documentation for the project
- Programming of works to ensure the work is undertaken according to the work plan
- Construction quality control – Quality assurance mechanisms / systems to demonstrate compliance with the requirements of the contract
- Supervision of employees, sub-contractors and trainees on site
- Management of project plant, equipments and vehicles

- Staff welfare, safety and environmental as required in the contract.
- Community sensitization on the management of the dam and catchment conservation

**June 2005 – To – April 2008:** Project Engineer, North Eastern Province, NWCPC, Ministry of Water and Irrigation.

- Responsible of overall management of water resource projects (in-house) in the Northern Eastern Province that covers Tana and Ewaso Ngiro River basins. The work includes the construction of small dams and pans, drilling of boreholes, flood control and mitigation works
- Design and supervision of contracted and subcontracted projects in the region
- Preparation of Work plans and Cash flows for the development works
- Undertaking research and studies on how to improve water resources management and utilization in the river basins
- Community training and stakeholders' involvement in water resource planning and development in the basins
- In charge of NWCPC facilities and machinery and also supervision of staff in the Region

**June 2003 – May 2005:** Engineer / Deputy Regional Manager; Nairobi & Central Region – NWCPC Water Services

- Deputize the regional manager in the overall management of seven water companies in the region and staff
- Technical manager undertaking design and supervision of small works within the regions
- Data analysis, management and evaluation reports of the water supply
- In-charge of staff welfare and discipline
- Chairing various established regional committees; Customers adjustment committee, metering & computerization committees, annual agricultural shows and end of year
- New water application processing

**Oct 2000 – May 2003:** Civil Engineer; Maiyo & Partners Consulting Engineers – Nairobi.

### **Projects**

- Feasibility study of Kikuyu Sewerage Project. The Environmental Impact Assessment and the Engineering Design Report
- Design of row reinstatement (Naivasha) and access road (Samburu) – Kenya Pipeline Company
- Design of raw materials sheds – East Africa Portland Cement

### **Education and Qualifications**

**May 2010 - To - Date:** Ongoing Research from May 2010 - April 2014.

PhD Research Fellow: UNESCO-IHE, Institute for Water Education, Delft, the Netherlands.

**Nov 2006 – Apr 2008:**

Master of Science with **Distinction** (Water Management specialization Water Resources Management), UNESCO-IHE Institute for Water Education, Delft, the Netherlands.

Thesis Research Title ‘Intersectoral Allocation in Tana River Basin – Kenya’. Looked at coordinated and optimal operation of the Seven Forks Multireservoir system and benefit sharing arrangement in the Tana River basin. The thesis involved formulation of optimal policies that maximizes the net benefits while fulfilling various social objectives and a benefit sharing arrangement that ensures sustainable management of the River basin.

**Sep 1995 – Aug 2000:**

Bachelor of Science (Civil Engineering), University of Nairobi. 2<sup>nd</sup> class Honours (Upper division)

**1990 – 1993:**

Kenya Certificate of Secondary Education, Tenges High School.

**1982 – 1989:**

Kenya Certificate of Primary Education, Tirimionin Primary School

**Referees**

1. Prof. Pieter Van der Zaag  
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2. Ms. P. M. Kibetu  
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