

**MESSAGE FROM THE CABINET SECRETARY
MINISTRY OF WATER, SANITATION AND IRRIGATION**



Sicily K. Kariuki (Mrs.), EGH

I take this opportunity to congratulate Kenya Water Institute (KEWI) on their 32nd Graduation Ceremony. My special Congratulatory Message goes to all the 549 graduands for successfully completing their respective Diploma, Certificate and Artisan courses. I am confident that the graduands are well equipped with knowledge, skills and attitudes to enable them effectively offer solutions to the challenges facing the Water, Sanitation and Irrigation sectors.

The Ministry of Water, Sanitation and Irrigation recognizes that water is a driver and key enabler of the Big Four (4) Development Agenda. KEWI is identified as a Centre of Excellence in water education, training, research, consultancy and outreach and expected to play a key role to meet the immediate and future societal needs. Our focus as a country is to ensure that there is universal provision of safe and adequate drinking water and ease of access to sanitation. However, Kenya periodically experiences extreme climatic conditions that leads to water scarcity. Thus, we oscillate on a pendulum of floods and drought. Therefore, there is need to protect our water sources and employ new ways of harvesting and storage of rain water including the available technologies on ground water exploitation and enhance recharge and protection in order to meet our national demand.

KEWI is well positioned to contribute towards realization of Kenya Vision 2030 and the Big Four (4) Agenda by producing graduates with the right skills, knowledge and attitude by:

1. Developing programmes aimed at constant review and technological learning according to the sector needs as well as anticipated challenges
2. Focusing on water research, technology and innovation development and transfer, so as to provide solutions to the challenges in the water, sanitation and irrigation sector
3. Contributing to the development and sustainability of water, sanitation, sewerage, and irrigation infrastructure
4. Offering training programmes aimed at increasing access to water through effective water resources management and development, efficient water use, rain water harvesting and storage technologies
5. Playing a key role in attainment of Sustainable Development Goals (SDG) Goal No. Six (6) to ensure access to water and sanitation for all by the year 2030

6. Providing opportunity to develop programmes and transfer technologies that will ensure climate change adaptation and mitigation measures are adequately addressed

The Ministry of Water, Sanitation and Irrigation in conjunction with the World Bank is carrying out institutional reforms for KEWI operations, including but not limited to; reviewing the KEWI Act No. 11 of 2001 to make it a Centre of Excellence. The expanded mandate will require more infrastructure as well as more human capital to support training, research, consultancy and outreach.

The Ministry expects Kenya Water Institute to provide relevant skilled manpower that is able to plan, develop and manage water resources in the country for posterity. This should be evident by developing a critical mass of competent water sector technicians who are innovative, creative and can effectively apply latest technologies and contribute to the ever-growing needs in the water, sanitation and irrigation sectors in Kenya.

The Ministry's objective is to upgrade the National Water Research function at the Institute and to strengthen Water Education, Training, Research and Innovation that are responsive to the water sector needs and inform policies. The Ministry therefore recognizes the role that research plays in the economic development of the Country and KEWI shall position itself through the right partnerships.

The Ministry is committed to ensuring that KEWI takes the leading role in providing specialized courses that will enable relevant professional certification and registration of all water, sanitation and irrigation sector practitioners with the main purpose of injecting professionalism and standards in service delivery.

The Ministry encourages the public, private sectors and development partners to collaborate with the Institute in support of the infrastructural modernization for realization of Government's Vision 2030 and Big Four (4) Agenda.

I congratulate the Kenya Water Institute Governing Council, Management, Staff, Students and more importantly those graduating today. May your hard work and Discipline stand out as you join the pool of water sector professionals

**MESSAGE FROM THE CHIEF ADMINISTRATIVE SECRETARY
MINISTRY OF WATER, SANITATION AND IRRIGATION**



Dr. Andrew Tuimur, CBS

I congratulate Kenya Water Institute (KEWI) on the 32nd graduation ceremony. My special congratulatory message goes to all the graduands for successfully completing their respective Diploma, Certificate and Artisan courses. I am confident that the graduands are well equipped with knowledge, skills and attitudes to enable them to effectively tackle the challenges facing the water, sanitation and irrigation sector.

Vision 2030 for water and sanitation is to ensure that improved water and sanitation is available and accessible to all. While urban water and sanitation have steadily increased over recent years, there is need for more effort to ensure that the sector grows to meet the goals anticipated in year 2030. KEWI is implementing this Vision by releasing to the market today, water laboratory technicians who will ensure consumption of clean water and management of sanitation issues in urban areas.

KEWI plays a major role in the irrigation sector by offering Diploma and Certificate courses in Irrigation and Drainage Engineering. These courses will impart the relevant knowledge and skills required in promoting Food Security in the country. Recently, the Ministry in collaboration with the Israel Government flagged off 90 KEWI students to Israel to study Water Management, Irrigation Techniques and Efficient Water Use for Intensive Crop Production. This initiative began in February, 2016 when H.E. President Uhuru Kenyatta flagged off the first group of Kenyan graduates to Israel to study Water Resources Management, Waste Water Treatment, Recycling and Reuse and Irrigation with emphasis on Advanced Efficient Water Use Technologies and Capacity Building among others. We are most grateful to H. E. the President and the Israel Government for actualizing this program.

**MESSAGE FROM THE PRINCIPAL SECRETARY
MINISTRY OF WATER, SANITATION AND IRRIGATION**



Mr. Joseph Wairagu Irungu, CBS

On my own behalf and that of the Ministry of Water, Sanitation and Irrigation, I am glad to be associated with Kenya Water Institute's 32nd Graduation Ceremony. The Ministry is determined to achieve goals set out in the Kenya Vision 2030 and more so the flagship projects. Kenya Water Institute has implemented the Water Resource Centre as a flagship project. The Water Resource Centre will act as a water information hub in the region with two components; Water Resource Centre and Geo-Information Centre.

The flagship projects as captured in development blueprint includes the construction of multipurpose dams, rehabilitation and expansion of urban water supply and sanitation in key satellite towns, rehabilitation of major irrigation schemes, and rehabilitation of hydrometeorological network. For the Ministry to realize all these, enough trained personnel will be required to ensure that the construction work is well done and in time. The facilities constructed will also need to be well managed in a sustainable manner. In this regard, today is a very important day not only for Kenya Water Institute but for the Ministry as well.

The Ministry is committed to ensuring the realization of constitutional requirement on the right to water as stipulated in Article 43 of the Constitution as well as promoting the human rights on sanitation and environment espoused in Articles 43 and 42 of the Constitution. Today, 27 million of Kenya's population can access safe clean drinking water within short distances. Of these, 10.3 million live in rural areas and have access to water within 2 kilometers. In the urban areas water is accessible within 30 minutes from the water source. The current national access to water services stands at 60% with urban at 68.3 % while rural coverage is at 51%. Despite these efforts, 18 million Kenyans are without access to water in both rural and urban areas. The current funding to the water sector is inadequate and hence this high deficit in access to water. KEWI's role is therefore to produce the skilled manpower, knowledge and policy briefs to address this deficit.

Water Resources Management and Development is a national government function, while water service provision is devolved to County Governments. Effective implementation of the National and devolved framework requires the water sector to focus on the emerging opportunities and to address the technological, human capacity and other challenges in the sector. KEWI's role is to provide critical manpower to support County Government to undertake the devolved function of providing clean water in urban and rural areas. Over the years the Ministry has been providing

an increased budgetary support to the institute due to its critical role in human capital development in the water sector and also support research, outreach and consultancy services.

**MESSAGE FROM THE CHAIRPERSON
KEWI GOVERNING COUNCIL**

The Governing Council congratulates all graduands on the occasion of the 32nd Graduation Ceremony. I register the Governing Council's gratitude to the Government of Kenya and stakeholders in the water and private sector for their continued support that has enabled KEWI provide relevant skills and knowledge to the graduands. Without this support this Celebration wouldn't have been possible. We are proud that KEWI is conferring on 549 graduands with Diplomas and Certificates.

With the support of the Ministry of Water, Sanitation and Irrigation, KEWI has initiated development of a master plan for all its campuses. It is envisaged that the master plans will be used as a tool for fund raising for construction and equipping from private and public sector.

Efforts are being made to make KEWI a Centre of excellence in training and research in the water sector. It gives me pleasure to note that Ministry of Water, Sanitation and Irrigation has also initiated the process of reviewing the Kenya Water Institute Act and it is envisaged that a revised legal framework will allow KEWI deliver on its mandate more effectively.

It is prudent to report that KEWI is spreading its wings to the Counties to support the devolved function in water, sanitation and irrigation sector. A number of Memorandum of Understanding have been initiated with the County Governments to open campuses, train County Staff and conduct out research, consultancies and outreach. KEWI's strategic direction is to reach every Kenyan to access clean and safe water.

**MESSAGE FROM THE DIRECTOR/CEO
KENYA WATER INSTITUTE**



Prof. Patrick O. Hayombe, PhD.

A rise in student numbers has been experienced in the last two years in response to the National policy direction of enhancing transition from secondary school level education to the Technical and Vocational Education and Training (TVET) sector which is aimed at addressing the technical skills, towards achievement of Kenya Vision 2030. KEWI is committed to offer Competency Based

Curriculum in the water sector to leverage on professional, technical, entrepreneurial and managerial skills for sustainable Water Resource Management and Development.

The soaring number of students to TVET Institutions has seen more students enrolled to the KEWI through Kenya Universities and Colleges Central Placement Services (KUCCPS). The County Governments have also responded through sponsorship of youth for competence based and vocational programmes especially in Water Engineering, Water Resource Management, Irrigation and Drainage, Water Operators, Plumbing and Pipe Fitting, Drilling Operations Courses.

To boost customer confidence in water testing laboratories, KEWI has embarked on journey for accreditation of its testing laboratories to ISO/IEC 17025:2017. This is pioneered to make KEWI become a reference Laboratory for Water Quality Analysis in the Country. In the same vein, KEWI is retooling its academic staff to be able to surpass targets in training, research, consultancy and outreach services. In addition, the KEWI Water Resource Centre is geared to offer services as a repository for water information in the Country; complete with GEO-databases (Water-GIS) in Hydrometeorological, Hydrogeology Water Supply and Sanitation, Irrigation and Drainage in the Country. This endeavor is to be realized through partnership with the Water Sector and other Government Agencies.

KEWI has initiated partnerships with County Governments, public and private sector institutions as well as development partners to address the constitutional requirements of providing safe and adequate water supply for all, improved sanitation and water resources management.

Water is an enabler and driver of the Big Four (4) Agenda. The Ministry expects KEWI to release competent plumbers to work in housing sector, irrigation technicians to manage the expanded irrigation projects in the country to leverage food security, water laboratory technicians to ensure consumption of clean water for a healthy nation and manage sanitation issues in urban areas and participate in managing of water bottling facilities and manufacturing industries and manage the water resources for the environment.