



KIRDI NEWSLETTER

Volume 1, Issue 3

Newsletter Date: 1ST JAN, 2022- 30TH JUNE, 2022

APPOINTMENT OF KENYA INDUSTRIAL RESEARCH AND DEVELOPMENT INSTITUTE (KIRDI) CHIEF EXECUTIVE OFFICER



Chair Dr. Dinah Mwinzi, CBS, Board of Directors, Acting CEO and Director-General Dr. Ing. Calvin Onyango

Featured

- Appointment of Kenya Industrial Research and Development Institute (KIRDI) Director-General
- Africa Public service delivery week
- KIRDI TECHNO-CENTRE facility progress
- Chuka University Visit
- Kenya Medical Training College visit
- KIRDI Pictorials
- KIRDI MSMEs Products
- Hibisco success story
- Mushroom Value Addition

The Cabinet Secretary, Ministry of Industrialization, Trade and Enterprise Development Ms. Betty Maina, EGH appointed Dr. Ing. Calvin Onyango as the Director-General for Kenya Industrial Research and Development Institute (KIRDI).

The new DG took office on Monday 6th June, 2022 in an event presided over by the Institutes Board Chair Dr. Dinah Mwinzi, CBS.

Dr-Ing. Onyango has been working in KIRDI for the past 26 years. He was a Chief Research Scientist having the necessary experience for the position. He is a team player, hardworking and a role model. He had all the qualities needed to oversee the Institute's operations.

Dr-Ing. Onyango promised to ensure the Institute achieves its objectives for the next 3 years that he will be at the helm. KIRDI's core mandate is research and is also an

Institution where MSMEs gain skills and knowledge based on their interest. This will help the country achieve its vision of 2030 and achieve the manufacturing sector of the big four agenda.

The board was and is still positive that he will oversee the completion of the pending projects. This will be helpful as the MSMEs will be able to use the new facilities for the production of their goods.

AFRICA PUBLIC SERVICE DELIVERY WEEK

"Celebrating Public Service transformation: Ten Year Journey and Beyond"

The Africa Public Service Delivery week was held from 21st June, 2022 to 24th June, 2022 at the KICC Nairobi.

The celebrations attracted over 100 Ministries, Departments, and Agencies to showcase their innovations and also saw public servants receive awards and certificates for excellent innovations. Some of these institutions were the Kenya Bureau of Standards (KEBS) - Ministry of Industrialization, Trade and Enterprise Development and Kenya National Highway Authority (KENHA) - Ministry of Transport and Infrastructure.

The different government institutions had set up stands with themes and colors that made them unique. Representatives from the institutions were stationed in each stall displaying their publication materials as well as their products and services.

KIRDI actively participated in the event by showcasing some of our products (Essential oils such as peanut oil, garlic oil, and avocado oil) services offered such as business incubation

and MSMEs success stories.

KIRDI Director-General Dr-Ing. Calvin Onyango and Board Member Ms. Jane Omari were in attendance. The DG Echoed Kenya Industrial Research & Development Institute's (KIRDI) achievements within the last 10 years. These include New product research innovations, adopting virtual training in value addition programs, growth of MSMEs supported from 200 to 800 annually, and modernization of research infrastructure. He insisted that going forward, KIRDI's focus will be on emerging technologies thus attaining our aspiration under Kenya Vision 2030.

The event was successful in creating awareness in the public about the functions of government institutions under different Ministries. It also provided a platform for public servants to reward innovative initiatives, achievements, and positive contributions to social-economic development, as well as sustain quality service delivery for economic growth.



KIRDI stand at KICC during the Public Service Delivery week.



Ms. Jane Omari (Left) Board member, Director-General Dr-Ing. Calvin Onyango (middle), Sarah Gacii, Head, Corporate Communications (Right)

KIRDI TECHNO-CENTRE FACILITY PROGRESS

The KIRDI technology center (techno-center) is a Vision 2030 development project which is set to host several technology projects that will be undertaken by the institution. The design entails an 18-story office block including 4 basement levels. It will also have three tower blocks that are designed to resist earthquakes and wind loads.

The Vision 2030 project is meant to transform KIRDI into a reputable, state-of-the-art, and competitive research, attracting and retaining high-caliber professionals, upgrading the quality of the Research, Technology, and Innovation (RTI) program and activities, and modernization of the institute's infrastructure in preparation of the critical role that KIRDI has to play to promote rapid growth in the manufacturing sector in Kenya.

“The building will have a state-of-the-art facility designed to offer industrial research facilities, incubation services”

The building will have a state-of-the-art facility designed to offer industrial research facilities, incubation services, conference, training, and accommodation facilities, a car park, offices, and display areas.

The three towers are laid out as follows:

Tower 1: Conference and Accommodation Facility

- 88 Hotel rooms
- Health club with a gym and sauna
- Swimming pool
- Laundry services

Tower 2: Office Blocks

- Grade A offices
- Conference facilities
- Prime location
- Water borehole
- Generator
- Ample and secure parking



Tower 3: Research Technology Innovation Centre

- A protected area hosting research labs.
- Nano-technology
- Digital Manufacturing (3D printing)

Apart from the three towers, the building is set to have a podium and basement;

Podium: Technology and Business Centre

- It will consist of the ground, mezzanine and first floors
 - 2 Amphitheatre
 - Show rooms
 - Shops
 - Banking halls
 - High-end restaurants
 - Plenary hall (1000 capacity)

CHUKA UNIVERSITY VISIT

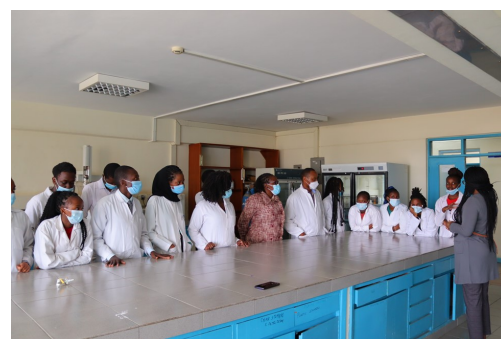
KIRDI hosted 43 students from Chuka University studying Food Science and Technology on 21st July, 2022 accompanied by two lecturers.

They also visited several sections like food technology where they where they learnt how to apply new ideas. They also learnt how to enhance national and household food security by way of reducing post-harvest food losses through development, adoption, adaptation and transfer of appropriate food processing and storage technologies. They also learned that the mission is to reduce post-harvest food losses through the process and product development.

The students also toured mechanical engineering section where the Division is actively involved in the areas of Mechanical and Civil engineering and other allied technology areas.

The division carries out several services and consultancies that are very competitive and to the customer's satisfaction. These services are equipment design and fabrication, plant management, appraisal and monitoring in terms of optimal utilization of resources, advice on upgrading of both new and old chemical Industrial plants, plant inception, design, fabrication, installations and

commissioning and advice on rejuvenation and rationalization of processes already in use and quality control.



Chuka students reflecting on the knowledge they gained in KIRDI



Lab scientist (left) showing Chuka University students some lab equipment

“The Chuka students were able to also go to the mechanical engineering section where the Division is actively involved in the areas of Chemical, Electrical/Electronics, Mechanical and Civil engineering, and other allied technology areas.

“

KENYA MEDICAL TRAINING COLLEGE VISIT

KMTC toured KIRDI and its facilities. They visited the ICT research section where they learnt the ICT research division is mandated to carry out industrial research.

In ICT research, it is understood that research forms the core business of the Institute and contributes significantly to the development of all industrial and allied technologies through innovation, adoption, adaptation, and transfer of technologies to support the industrial development process.

They also visited the engineering section that deals with research and development of processes that convert raw materials into intermediate and finished products (value addition). They also develop processes for new / improved value-added products from local materials.



**KMTC students with a research scientist;
Engineering division**



KMTC students viewing some of the products in FDC

“They were able to visit the ICT research section where they were able to learn that the ICT research division is mandated with the carrying out of industrial research.”

KIRDI PICTORIALS



KIRDI MSMEs PRODUCTS



SUCCESS STORIES

HIBISCO SUCCESS STORY

KIRDI continues to encourage the entrepreneurial endeavours of individuals. Hibisco brand, which is sponsored by Massatech Ltd, makes juice using natural ingredients obtained from hibiscus flowers, integrating a variety of flavors ranging from tamarind, apple, pineapple, and mango. The company now has 10 employees and the production team is headed by Rollex Owino. He explains that their journey began with training at KIRDI back in 2019.

The mineral and vitamin content of the brand offers users numerous health benefits, including blood pressure management, digestive assistance, liver protection, and immunity boosting. These properties, as well as the drink retailing at an affordable price, provide a competitive advantage in the market.

The growth and development of Hibisco have been made possible by KIRDI which has offered training and capacity building, access to shared manufacturing facilities for production, technical support

pre and post-production, and assistance with the KEBS certification process.



Rollex Owino; Head of Hibisco Production team



Hibisco juice (tropical flavor)

“The growth and development of Hibisco have been made possible by KIRDI which has offered training and capacity building, access to shared manufacturing facilities for production”

MUSHROOM VALUE ADDITION

Wanjiku Gacheru, founder of WEZAKWEZA and one of KIRDI's trainees, works together with other organizations to offer Agribusiness solutions to farmers. One of these solutions is to increase the shelf life of mushrooms.

KIRDI, through the efforts of the research scientists, trained Wanjiku on mushroom value addition using the technologies in the food processing plant.

The Institute plays an important role in national development by conducting industrial research which involves transferring knowledge to industries. Training and business incubation are one of the approaches used by the institute to transfer knowledge and skills to MSMEs and manufacturing industries in Kenya. Food Development Centre offers training and capacity building on the development of different

food products such as mushrooms. They are very unique in due to their fungal nature. Mushrooms are extremely perishable and it, therefore, calls for value addition.

“Training and business incubation are one of the approaches used by the institute to transfer knowledge and skills to MSMEs and manufacturing industries in Kenya. Food Development Centre offers training and capacity building on the development of different food products such as mushrooms.”



Boiled mushrooms before drying



Wanjiku Gacheru (left) being trained by KIRDI's research scientist; Knight Moraa Omwoyo (right)

SERVICES OFFERED TO MSMEs

KIRDI provides the following services to MSMEs;

Training and Capacity Building

KIRDI offers practical and industry related training courses that are custom made and focused on the needs of MSMEs. The trainings are undertaken from both within the Institutes premises and at the MSMEs premises where possible.

The training are undertaken in the following areas, but not limited to: Food Technology, Natural Products, Leather and Leather Products, Honey Processing, Textile Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Industrial Chemistry, Power Resource, Ceramics and Building Materials and Mushroom production.

The training programs usually take a period of one (1) to Three (3) weeks depending on the complexity of the technology. The practicality of the training is emphasized by the one on one interaction between the trainer and the trainee hence ensuring effectiveness of the program.

Business Incubation

KIRDI runs an incubation program whereby startups are housed within the organization for a specific period of time depending on the client's needs and agreeable terms with the Institute. The institute also runs on-site service where research scientists support entrepreneurs and industrialists from their establishments. The Incubatee in-house are given technical support in their areas of interest. The incubation programs aims to grow MSME's

by supporting and nurturing them to create products that have a market reach and one that is able to compete globally.

Providing Access to Common Manufacturing Facilities

This is a concept whereby KIRDI provides facilities (space, machine & utilities) for MSMEs to process their products at a fee. Common Manufacturing Facilities are offered in the following area: Food Technology, Natural Products, Leather, Engineering, Textile and Ceramics & Building Materials.

Product Development

Product development involves modification of an existing product or formulation of an entirely new product that satisfies a newly defined market niche. KIRDI offers its clients an opportunity to develop new products or value add on existing ones to fill a specific gap and meet the MSME's objective in upgrading their products to international standards.

Quality Assurance and Laboratory Testing

The institute offers laboratory services aimed at enhancing quality of products with a focus on MSMEs to enable them attain and sustain international competitiveness. Our strength lies in the following areas:

- Testing and analysis of water
- Food analysis
- Animal Feeds analysis
- Chemical analysis
- Leather, textiles, minerals and related material testing
- Cook stove testing

Consultancy

The Institute offers consultancy services in industrial technology, development and application.



Juice processing training

"The training programs usually take place between one (1) to Three (3) weeks depending on the complexity of the technology."



Sanitary pads developed at KIRDI (Saniatex Soft Brand)



Laboratory testing and analysis



SMEs packing Banana value-added product - Ritoke brand



Packed and labeled products by KIRDI SME (Onja Foods brand)

2021/2022

Location:

Popo Road off Mombasa Road

South C, Nairobi, Kenya

Phone:

+254 20 23 88 216 / 23 93 466

Email:

directorgeneral@kirdi.go.ke /
directorkirdi@gmail.com

www.kirdi.go.ke



Your Industrial Technology Partner



KIRDI NAIROBI HEADQUARTERS



KIRDI KISUMU CENTRE

VISION

“A world class centre of excellence in Industrial Research, Technology and Innovation”

MISSION

“To undertake Industrial Research and Transfer Innovative Technologies for Socio-Economic Development”

CORE VALUES

In the endeavor to realize its vision and mission, KIRDI upholds the following core values:

Customer Focus:

KIRDI will not only meet but exceed customers' expectations.

Integrity & Accountability:

The Board and Staff of the Institute will uphold integrity and accountability while discharging their duties and responsibilities.

Professionalism:

The Board of Directors and staff of the Institute will exercise professionalism in all their operations.

Creativity & Innovativeness:

KIRDI is a learning organization that embraces creativity and innovativeness in responding to changes in the operating environment.

Teamwork:

KIRDI Board of Directors and staff work together, as one team, towards the realization of the Institute's mandate.

Environmental Sustainability:

The Institute commits to protect the environment as it implements its programmes.



KIRDI LOCATIONS



Contact Address Head Office Popo Road Off Mombasa Road

P.O. Box 30650-00100, Nairobi, Kenya

Tel: +254202388216/2393466

Email: info@kirdi.go.ke, directorgeneral@kirdi.go.ke

Website: www.kirdi.go.ke