

# **VOTE: 110 Uganda Industrial Research Institute (UIRI)**

## **I. VOTE MISSION STATEMENT**

To catalyze the social -economic transformation of uganda through enhanced technology use

## **II. STRATEGIC OBJECTIVE**

To conduct demand-driven research and development (R&D) for products and production processes

To develop/acquire appropriate technologies for industrial/manufacturing applications.

To bridge the gap between academia and the private sector with respect to commercialization of innovations and research outputs

To promote raw material value addition for socioeconomic transformation.

## **III. MAJOR ACHIEVEMENTS IN 2025/26**

1. Conducted 11 major RD outputs which include;

Medical textiles and PPE developed using indigenous materials to reduce dependence on global supply chains.

Biomedical devices including the award winning Electronically Controlled Gravity Feed Infusion ECGF Set and Neonatal Warmer to improve patient safety.

Probiotic detergents developed using beneficial bacterial strains for eco friendly cleaning solutions.

Food safety research including Quantitative Microbiological Risk Assessment on milk contamination in Kampala in collaboration with Ghent University.

Herbal pharmaceutical innovations including wound healing formulations and cough syrup prototypes ready for commercialization.

Activated carbon from maize cobs for laboratory air purification.

Food product innovations including chocolate composite flours beverages sauces fruit products and snacks.

Medicinal mushroom domestication Ganoderma lucidum with ongoing clinical trials.

Improved oyster mushroom cultivation technologies using agricultural waste.

Herbal sunscreen formulations for populations vulnerable to UV radiation.

Natural disinfectant gels disposable sanitary pads from sugarcane bagasse and reusable sanitary pads

2. Technology Development

UIRIs advanced laboratories and PCB production facility enabled the development of seven technologies including;

Post harvest and agro processing equipment such as grain hullers peanut shellers cassava chippers maize shellers solar dryers pasteurizers and coffee grading machines aiming to reduce post harvest losses.

## **VOTE: 110 Uganda Industrial Research Institute (UIRI)**

Locally designed FM radios now entering commercialization. This leads to promotion of local manufacturing and reduces dependence on foreign imports.

Real time oil rig safety monitoring systems detecting hazardous gases and temperatures. This improves worker safety through detection of gas leakages.

Vehicle tracking devices developed with young innovators which will improve fleet management.

Drone prototypes for agriculture mapping surveillance and delivery services which increases farm productivity.

Digital weighing scales LPG gas detectors and laparoscopy incision kits developed locally which improves trade accuracy

Variable Frequency Drives VFDs enabling rural communities to run three phase machinery using single phase power.

### **3. Industrial Skills Development**

Through practical training programs in fields such as food processing textiles cosmetics production carpentry metal fabrication renewable energy and materials processing UIRI has trained over 10000 Ugandans strengthening skills across key industrial sector

### **4. Partnerships and Collaborations**

UIRI strengthened strategic partnerships with 8 institutions including Makerere University, CSIR ,South Africa Hexagon Electrical, Changzhou Vocational Institute China Bureau ,Veritas, Mbarara University of Science and Technology, PSFU and RIELA. These collaborations support research industrial training technology transfer and enterprise development.

# VOTE: 110 Uganda Industrial Research Institute (UIRI)

## IV. MEDIUM TERM BUDGET ALLOCATIONS

Table 4.1: Overview of Vote Expenditure (Ushs Billion)

	2025/26		2026/27	MTEF Budget Projections				
	Approved Budget	Spent by End Dec	Budget Estimates	2027/28	2028/29	2029/30	2030/31	
<b>Recurrent</b>	Wage	10.326	5.162	10.326	10.842	11.384	11.954	12.551
	Non-Wage	9.913	4.506	12.181	14.008	16.809	20.171	24.205
<b>Devt.</b>	GoU	2.893	0.961	2.893	3.182	3.819	4.583	5.499
	Ext Fin.	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>GoU Total</b>	<b>23.132</b>	<b>10.629</b>	<b>25.400</b>	<b>28.032</b>	<b>32.012</b>	<b>36.707</b>	<b>42.256</b>	
<b>Total GoU+Ext Fin (MTEF)</b>	<b>23.132</b>	<b>10.629</b>	<b>25.400</b>	<b>28.032</b>	<b>32.012</b>	<b>36.707</b>	<b>42.256</b>	
<b>Arrears</b>	0.032	0.000	0.018	0.000	0.000	0.000	0.000	
<b>Total Budget</b>	<b>23.164</b>	<b>10.629</b>	<b>25.418</b>	<b>28.032</b>	<b>32.012</b>	<b>36.707</b>	<b>42.256</b>	
<b>Total Vote Budget Excluding Arrears</b>	<b>23.132</b>	<b>10.629</b>	<b>25.400</b>	<b>28.032</b>	<b>32.012</b>	<b>36.707</b>	<b>42.256</b>	

**VOTE: 110 Uganda Industrial Research Institute (UIRI)****Table 4.2: Budget Allocation by Department for Recurrent and Development (Ushs Billion)**

<i>Billion Uganda Shillings</i>	Draft Budget Estimates FY 2026/27	
	Recurrent	Development
<b>Programme:04 Manufacturing</b>	<b>0.300</b>	<b>0.000</b>
<b>Vote Function:01 Industrial Research</b>	<b>0.300</b>	<b>0.000</b>
001 Headquarters	0.300	0.000
<b>Programme:13 Innovation, Technology Development and Transfer</b>	<b>22.207</b>	<b>2.893</b>
<b>Vote Function:01 Industrial Research</b>	<b>22.207</b>	<b>2.893</b>
001 Headquarters	22.207	2.893
<b>Total for the Vote</b>	<b>22.507</b>	<b>2.893</b>

# VOTE: 110 Uganda Industrial Research Institute (UIRI)

## V. PERFORMANCE INDICATORS AND PLANNED OUTPUTS

**Table 5.1: Performance Indicators**

**Programme: 04 Manufacturing**

**Vote Function: 01 Industrial Research**

**Department: 001 Headquarters**

**Key Service Area: 000034 Education and Skills Development**

**PIAP Output: Innovation and research initiatives supported**

**Programme Intervention: 042131 Promote acquisition and use of appropriate technology in collaboration with research institutions and academia**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of innovation and research initiatives supported	Number	2023/24	0	250

**Programme: 13 Innovation, Technology Development and Transfer**

**Vote Function: 01 Industrial Research**

**Department: 001 Headquarters**

**Key Service Area: 000013 HIV/AIDS Mainstreaming**

**PIAP Output: Internship, apprenticeship and exchange programmes in STI strategic areas**

**Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Participants in Supported Internship, Apprenticeship and Mentorship Programme	Number	2023/24	230	230

**Key Service Area: 000014 Administrative and Support Services**

**PIAP Output: Specialised capacity development programmes for prioritised value-chains**

**Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

**VOTE: 110 Uganda Industrial Research Institute (UIRI)****Vote Function: 01 Industrial Research****Department: 001 Headquarters****Key Service Area: 000014 Administrative and Support Services****PIAP Output: Specialised capacity development programmes for prioritised value-chains**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Individuals Supported for Advanced Training in Strategic and Emerging STI Fields	Number	2023/24	35	64

**PIAP Output: Internship, apprenticeship and exchange programmes in STI strategic areas****Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Participants in Supported Internship, Apprenticeship and Mentorship Programme	Number	2023/24	230	188

**Key Service Area: 000021 Gender Mainstreaming services****PIAP Output: Specialised capacity development programmes for prioritised value-chains****Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Products Developed & Services Provided	Number	2023/24	12	20

**Key Service Area: 000022 Research and Development****PIAP Output: Specialised capacity development programmes for prioritised value-chains****Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Products Developed & Services Provided	Number	2023/24	12	12

**VOTE: 110 Uganda Industrial Research Institute (UIRI)****Vote Function: 01 Industrial Research****Department: 001 Headquarters****Key Service Area: 000022 Research and Development****PIAP Output: Operational centres for Machining, Manufacturing and Industrial Skills Development****Programme Intervention: 132121 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Informal Artisans and Technicians Trained	Number	2023/24	175	180

**Key Service Area: 370001 Industrial and technological Incubation****PIAP Output: Technology Transfer System****Programme Intervention: 133133 Enhance international cooperation for technology development and market creation**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Technologies acquired, diffused and developed	Number	2023/24	5	18

**Key Service Area: 370002 Technology and Innovation****PIAP Output: Technology Transfer System****Programme Intervention: 133133 Enhance international cooperation for technology development and market creation**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Technologies acquired, diffused and developed	Number	2023/24	5	16

**Key Service Area: 370003 Research and Technologies Awareness****PIAP Output: Technology Transfer System****Programme Intervention: 133133 Enhance international cooperation for technology development and market creation**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Technologies acquired, diffused and developed	Number	2023/24	5	8

**VOTE: 110 Uganda Industrial Research Institute (UIRI)****Vote Function: 01 Industrial Research****Department: 001 Headquarters****Key Service Area: 370004 Industrial Skills Development****PIAP Output: Reverse engineered products****Programme Intervention: 133131 Support Technology Development, Transfer, Industrialization and Commercialization in the Prioritised Industrial Value Chains**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Reverse Engineered Products Available on the Market	Number	2023/24	1	15

**Key Service Area: 370005 Model Value Addition Services****PIAP Output: Reverse engineered products****Programme Intervention: 133131 Support Technology Development, Transfer, Industrialization and Commercialization in the Prioritised Industrial Value Chains**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Reverse Engineered Products Available on the Market	Number	2023/24	1	10

**Project: 1973 Institutional Development of Uganda Industrial Research Institute****Key Service Area: 000003 Facilities and Equipment Management****PIAP Output: Specialised capacity development programmes for prioritised value-chains****Programme Intervention: 132111 Accelerated Conversion of Ugandan workforce through specialized Industrial STI Capacity Development Programs**

Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2026/27
Number of Engineering Professionals Trained	Number	2023/24	0	110

# **VOTE: 110 Uganda Industrial Research Institute (UIRI)**

## **VI. VOTE NARRATIVE**

### **Vote Challenges**

Inadequate funding which has been the bane of UIRIs progress resulting in  
Inability to fully operationalize production and apprenticeship operations at Namanve Campus

Inability to fully upgrade Nakawa Campus physical and technological infrastructure which continues to limit capacity for business incubation services

Inability to improve staff remuneration for parity with prevailing job market norms especially for high caliber scientists engineers and technicians

Inability to acquire additional priority technologies tooling and accessories for Namanve Campus operations

Inability to progress at the desired pace which continues to hamper sensitive projects in fields such as microbiology and biotechnology

ii. Endemic duplication of UIRIs efforts and plagiarism continues to distort public and partner perceptions of the institutes critical and unique role in industrial development

iii. Lack of entrepreneurial skills to facilitate business incubator efforts

### **Plans to improve Vote Performance**

Strengthen continuous engagement between MoFPED and relevant stakeholders to secure adequate funding for research activities and the operationalization of the Namanve project. This will result to increased resource allocation.

Provide structured business development services to incubatees and trainees to strengthen their entrepreneurial skills and business management capacity, This will improve their business skills and increase survival and business growth rates

## **VII. Off Budget Support and NTR Projections**

### **Table 7.1: Off Budget Support by Project and Department**

N/A

**VOTE: 110 Uganda Industrial Research Institute (UIRI)****Table 7.2: NTR Projections(Uganda Shillings Billions)**

Revenue Code	Revenue Name	FY2025/26	Projection FY2026/27
144149	Miscellaneous receipts/income	0.150	0.167
<b>Total</b>		<b>0.150</b>	<b>0.167</b>

# VOTE: 110 Uganda Industrial Research Institute (UIRI)

## VIII. PERSONNEL INFORMATION

**Table 8.1: Staff Establishment Analysis**

Title	Salary Scale	Number of Approved Positions	Number of filled Positions
Research Technician	UIRI SC 6	64	64
Accountant	UIRI SC 8	5	5
Administrative Assistant TDC	UIRI SC 7	1	1
BDC Officer	UIRI SC 6	5	5
Business Development Center Training Coordinator	UIRI SC 5	1	1
Clerk of Works	UIRI SC 6	1	1
Communications and Marketing Manager	UIRI SC 3	1	1
Communications and Marketing Officer	UIRI SC 8	8	8
Coordinator - ICT Community Center	UIRI SC 5	1	1
Director Product Development	UIRI/SC2	1	1
Director Production Systems	UIRI/SC2	2	2
Driver	U8	15	15
Estate Attendant	UIRI SC 8	36	36
Executive Director	UIRI SC 1	1	1
Fleet Manager	UIRI SC 5	1	1
Head Microbiology	UIRI SC 3	1	1
Head of Accounts	UIRI SC 3	1	1
Head of Engineering	UIRI SC 3	1	1
Head Procurement and Disposal Unit	UIRI SC 3	1	1
Human Resource Manager	UIRI/SC3	1	1
Human Resource Officer	UIRI SC 7	8	8
ICT Manager	UIRI SC 3	1	1
ICT Network Officer	UIRI SC 5	24	24
ICT Training Coordinator	UIRI SC 4	1	1
Internal Audit Officer	UIRI SC 7	4	4
Laboratory Analyst	UIRI SC 5	1	1
Manager Lira	UIRI SC 3	1	1

**VOTE: 110 Uganda Industrial Research Institute (UIRI)**

Title	Salary Scale	Number of Approved Positions	Number of filled Positions
Plant Attendant	UIRI SC 7	35	35
Procurement Officer	UIRI SC 6	6	6
Production Supervisor	UIRI SC 5	1	1
Project Manager	UIRI/SC4	4	4
Quality Assurance and Control Officer	UIRI SC 6	1	1
Quality Assurance Officer	UIRI SC 5	1	1
Quality Control Officer	UIRI SC 7	1	1
Receptionist	UIRI SC 7	2	2
Records Officer	UIRI SC 5	1	1
Research Engineer	UIRI SC 7	39	39
Research Scientist	UIRI SC 6	62	62
Sales Representative	UIRI SC 6	2	2
Security Officer	UIRI SC 4	19	19
Senior Accountant	UIRI SC 7	1	1
Special Projects Officer	UIRI SC 6	7	7
Store Keeper	UIRI SC 8	1	1

**VOTE:** 110 Uganda Industrial Research Institute (UIRI)

**Table 8.2: Staff Recruitment Plan**

N/A