

VOTE: 142 National Agricultural Research Organization(NARO)

I. VOTE MISSION STATEMENT

To innovate for sustainable agricultural transformation

II. STRATEGIC OBJECTIVE

Increased niche markets for communities in agricultural sector
Increased research products and services suited for industry
Communities increasingly using improved agricultural technologies and innovations
Institutional orientation to agricultural transformation

III. MAJOR ACHIEVEMENTS IN 2021/22

2 impact studies on maize and bean were finalized in the country wide study Preliminary findings indicated that 79 percent and 85 percent of farmers were using improved NARO maize and bean varieties
3 technologies were identified to have IP potential and are undergoing assessment and drafting one patent application drafted and ready for filing 2 more seed companies recommended for license to commercialize NARO plant varieties
1000 acres of NARO land were secured through titling and there was continued stakeholder engagements for improved security across the country
7promising bean lines 3 bush and 4 climbers sent through for DUS test Application under review by Variety Release committee for 3 cassavas 3 sweet potatoes 4 rice 6 vegetables and 2 maize varieties for food nutrition and industry
2 cages stocked with 15000 fish for grow out and one cage facility maintained
3000 doses of antitick vaccine were manufacture and farms were selected for field Multilocational Antitick vaccine Trial Protocol reviewed and approved by IACUC The P67 T Parva gene for 15 ECF positive samples from Pader and 11 from Kiryandongo district has been amplified by PCR and a total of 418 samples collected, out of which 155 screened microscopically showed positive and being evaluated by molecular means
5 agriculture research information education communication material were developed and disseminated
1st prototype of hybrid dryer for wet coffee processing was developed

VOTE: 142 National Agricultural Research Organization(NARO)**IV. MEDIUM TERM BUDGET ALLOCATIONS****Table 4.1: Overview of Vote Expenditure (Ushs Billion)**

		MTEF Budget Projections				
		2022/23 Proposed Budget	2023/24	2024/25	2025/26	2026/27
Recurrent	Wage	38.811	38.811	38.811	38.811	38.811
	Non-Wage	21.366	20.866	20.866	20.866	20.866
Devt.	GoU	28.575	28.575	28.575	28.575	28.575
	Ext Fin.	0.000	0.000	0.000	0.000	0.000
GoU Total		88.753	88.253	88.253	88.253	88.253
Total GoU+Ext Fin (MTEF)		88.753	88.253	88.253	88.253	88.253
Arrears		0.144	0.000	0.000	0.000	0.000
Total Budget		88.897	88.253	88.253	88.253	88.253
Total Vote Budget Excluding		88.753	88.253	88.253	88.253	88.253

VOTE: 142 National Agricultural Research Organization(NARO)**Table 4.2: Budget Allocation by Department for Recurrent and Development (Ushs Billion)**

<i>Billion Uganda Shillings</i>	Draft Budget Estimates FY 2022/23	
	Recurrent	Development
Programme:01 AGRO-INDUSTRIALIZATION	60.177	28.575
SubProgramme:01 Institutional Strengthening and Coordination	54.369	0.000
Sub SubProgramme:01 Agricultural Research	54.369	0.000
007 NARO-SECRETARIATE	54.369	0.000
SubProgramme:02 Agricultural Production and Productivity	5.808	28.575
Sub SubProgramme:01 Agricultural Research	5.808	28.575
001 Abi Zonal Agriculture Research Institute(ZARDI)	0.117	0.000
002 Buginyaya Zonal Agriculture Research Institute(ZARDI)	0.272	0.000
003 Bulindi Zonal Agriculture Research Institute(ZARDI)	0.139	0.000
004 Kachwekano Zonal Agriculture Research Institute(ZARDI)	0.214	0.000
005 Mbarara Zonal Agriculture Research Institute(ZARDI)	0.117	0.000
006 Nabuin Zonal Agriculture Research Institute(ZARDI)	0.117	0.000
007 NARO-SECRETARIATE	2.450	21.140
008 National Agricultural Research Laboratories	0.300	0.000
009 National Coffee Research Institute	0.197	0.000
010 National Crops Resources Research Institute	0.247	0.000
011 National Fisheries Resources Research Institute	0.197	0.000
012 National Forestry Resources Research Institute	0.125	0.000
013 Mukono Zonal Agriculture Research Institute (ZARDI)	0.264	0.000
014 National Livestock Resources Research Institute (NaLIRRI)	0.622	7.435
015 National Semi Arid Resources Research Institute (NaSARRI)	0.122	0.000
016 Ngetta ZARDI	0.117	0.000
017 Rwebitaba ZARDI	0.192	0.000
Total for the Vote	60.177	28.575

VOTE: 142 National Agricultural Research Organization(NARO)

V. PERFORMANCE INDICATORS AND PLANNED OUTPUTS

Table 5.1: Performance Indicators

Programme: 01 AGRO-INDUSTRIALIZATION				
SubProgramme: 02 Agricultural Production and Productivity				
Sub SubProgramme: 01 Agricultural Research				
Department: 001 Abi Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	4
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	3	4
Budget Output: 010011 Technology Promotion				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	1
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2	2
Number of improved technologies and innovations adopted	Number	2021-2022	1	3
Number of markets created along product lines	Number	2021-2022	1	1
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	1
Number of research products and services suitable for industry developed	Number	2021-2022	1	1
PIAP Output: Research-extension farmer linkages developed and strengthened				

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 001 Abi Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010011 Technology Promotion				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	4	6
Number of technologies adopted	Number	2021-2022	4	8
Department: 002 Buginyaya Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2	4
Number of improved technologies and innovations adopted	Number	2022-2023	4	4
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2	2
Number of improved technologies and innovations adopted	Number	2021-2022	2	4
Number of research products and services for food and nutrition security generated	Number	2021-2022	2	2
PIAP Output: Research-extension farmer linkages developed and strengthened				

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 002 Buginyaya Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010010 Technology Generation				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	2	2
Number of technologies adopted	Number	2022-2023	2	2
Budget Output: 010011 Technology Promotion				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of research products and services for food and nutrition security generated	Number	2021-2022	2	2
PIAP Output: Research-extension farmer linkages developed and strengthened				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	2	2
Number of technologies adopted	Number	2021-2022	4	4
Department: 003 Bulindi Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	1
Number of improved technologies and innovations adopted	Number	2021-2022	2	9
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	5
PIAP Output: Research-extension farmer linkages developed and strengthened				

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 003 Bulindi Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010010 Technology Generation				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	2	2
Number of technologies adopted	Number	2021-2022	8	9
Department: 004 Kachwekano Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	2
Number of improved technologies and innovations adopted	Number	2021-2022	3	7
Number of research products and services suitable for industry developed	Number	2021-2022	1	1
Department: 005 Mbarara Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	5
Number of improved technologies and innovations adopted	Number	2021-2022	2	7
Number of markets created along product lines	Number	2021-2022	2	2
Number of research products and services for food and nutrition security generated	Number	2021-2022	4	4

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 005 Mbarara Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010008 Capacity Strengthening				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of research products and services suitable for industry developed	Number	2021-2022	2	2
Department: 006 Nabuin Zonal Agriculture Research Institute(ZARDI)				
Budget Output: 010011 Technology Promotion				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	6
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	1	3
Number of improved technologies and innovations adopted	Number	2021-2022	3	14
Number of markets created along product lines	Number	2021-2022	2	3
Number of research products and services for food and nutrition security generated	Number	2021-2022	3	3
Department: 007 NARO-SECRETARIATE				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	10	14
Department: 008 National Agricultural Research Laboratories				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 008 National Agricultural Research Laboratories				
Budget Output: 010008 Capacity Strengthening				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	4
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2	4
Number of improved technologies and innovations adopted	Number	2021-2022	5	4
Number of research products and services for food and nutrition security generated	Number	2021-2022	5	6
Number of research products and services suitable for industry developed	Number	2021-2022	9	8
Department: 009 National Coffee Research Institute				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	6
Number of improved technologies and innovations adopted	Number	2021-2022	1	3
Number of market responsive coffee varieties developed	Number	2021-2022	1	3
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	3
Number of research products and services suitable for industry developed	Number	2021-2022	2	6

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 010 National Crops Resources Research Institute				
Budget Output: 010008 Capacity Strengthening				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	6	10
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	8	12
Number of improved technologies and innovations adopted	Number	2021-2022	9	19
Number of markets created along product lines	Number	2021-2022	3	3
Number of research products and services for food and nutrition security generated	Number	2021-2022	3	12
Number of research products and services suitable for industry developed	Number	2021-2022	2	5
Budget Output: 010011 Technology Promotion				
PIAP Output: Research-extension farmer linkages developed and strengthened				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of technologies adopted	Number	2021/2022	5	5
Department: 011 National Fisheries Resources Research Institute				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	5

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 011 National Fisheries Resources Research Institute				
Budget Output: 010010 Technology Generation				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	1	3
Number of improved technologies and innovations adopted	Number	2021-2022	1	3
Number of markets created along product lines	Number	2021-2022	2	2
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	3
Number of research products and services suitable for industry developed	Number	2021-2022	1	3
Department: 012 National Forestry Resources Research Institute				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	3
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2	2
Number of improved technologies and innovations adopted	Number	2021-2022	3	2
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	2
Number of research products and services suitable for industry developed	Number	2021-2022	1	2

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 013 Mukono Zonal Agriculture Research Institute (ZARDI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	2	2
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	3	5
Number of improved technologies and innovations adopted	Number	2021-2022	2	2
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	1
Number of research products and services suitable for industry developed	Number	2021-2022	1	2
Department: 014 National Livestock Resources Research Institute (NaLIRRI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	1
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	1	1
Number of improved technologies and innovations adopted	Number	2021-2022	1	1
Number of markets created along product lines	Number	2021-2022	2	1
Number of Niche markets for livestock industrial products created	Number	2021-2022	1	1

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 014 National Livestock Resources Research Institute (NaLIRRI)				
Budget Output: 010010 Technology Generation				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	1
Number of research products and services suitable for industry developed	Number	2021-2022	1	1
Department: 015 National Semi Arid Resources Research Institute (NaSARRI)				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	2
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	1	3
Number of improved cotton varieties developed	Number	2021-2022	0	3
Number of improved technologies and innovations adopted	Number	2021-2022	1	3
Number of markets created along product lines	Number	2021-2022	1	3
Number of research products and services for food and nutrition security generated	Number	2021-2022	6	8
Number of research products and services suitable for industry developed	Number	2021-2022	2	6
Budget Output: 010011 Technology Promotion				
PIAP Output: Demand driven agriculture technologies developed				

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 015 National Semi Arid Resources Research Institute (NaSARRI)				
Budget Output: 010011 Technology Promotion				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of functional public-private partnerships established for technology development and promotion	Number	2022-2023	5	5
Department: 016 Ngetta ZARDI				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	5
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	1	1
Number of improved technologies and innovations adopted	Number	2021-2022	2	3
Number of research products and services for food and nutrition security generated	Number	2021-2022	3	3
Department: 017 Rwebitaba ZARDI				
Budget Output: 010010 Technology Generation				
PIAP Output: Demand driven agriculture technologies developed				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of market-oriented products generated	Number	2021-2022	1	4
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	6	18
Number of improved technologies and innovations adopted	Number	2021-2022	3	6

VOTE: 142 National Agricultural Research Organization(NARO)

Sub SubProgramme: 01 Agricultural Research				
Department: 017 Rwebitaba ZARDI				
Budget Output: 010010 Technology Generation				
Indicator Name	Indicator Measure	Base Year	Base Level	Performance Targets
				2022/23
Number of markets created along product lines	Number	2021-2022	3	4
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	4
Number of research products and services suitable for industry developed	Number	2021-2022	2	4

VOTE: 142 National Agricultural Research Organization(NARO)

VI. VOTE NARRATIVE

Vote Challenges

Inadequate funding for research and development against the African Union Research Agenda 2060 which requires African countries to commit 1 percent of their GDP to research In this line, NARO requires 400 billion to run research annually The short fall in this BFP is UGX 247 billion.

Inadequate salaries for agricultural research scientists which has led to high levels of attrition, leading to instability in the Agricultural research system which is the engine for Agro industrialization

Inadequate transport equipment to efficiently and effectively undertake research The existing transport equipment is well beyond ten years old and above 250000KM contrary to the government policy In addition the cost of maintenance is very high The existing transport equipment poses the following risks loss of life due to accidents failure to implement most research activities and financial loss due to exorbitant repair and maintenance costs NARO needs at least 51 new service delivery vehicles for 16 public research institutes and the secretariat to support research across the country

Inadequate research facilities to support research for products and service delivery to support agroindustrialization

Emerging pests and diseases that undermine sustainable incremental genetic gains

Despite the salary enhancement there is still need for further salary enhancement for NARO in line with the set government pay and support to attract and retain high quality agricultural research scientists

Inadequate laws and policies to aid research and innovation

Plans to improve Vote Performance

Commercializing NARO technologies to exploit royalties and intellectual property rights

NARO shall intensify commercialization of her technologies to broaden her income through collection royalties and Intellectual Property rights to increase revenue generation

Engage government to ensure enhancement of salaries for agricultural research scientists

Strengthening NARO grants office

NARO will establish a think tank under the grants office to generate ideas that reflect global trends and opportunities and constitute them into negotiable proposals

NARO will intensify establishment of centers of excellence African Union of Excellence in for Research in Aquaculture East African Innovation Center for Millet and Sorghum Cassava Regional Center of Excellence groundnuts and hubs for Excellence in Breeding To emerge as a research leader at regional and global level NARO will position herself to build networks and capacity for resource mobilization and management for the greater region

NARO will develop a road map to become self reliant to create stability in agricultural research The road map will layout an action towards investment in development of flagship products and services for the industry and market to generate revenue to support Agricultural research

VII. Off Budget Support

Table 7.1: Off Budget Support by Project and Department

<i>Billion Uganda Shillings</i>	2022/23 Draft Estimates
Programme : 01 AGRO-INDUSTRIALIZATION	34,168,000
SubProgramme: 02 Agricultural Production and Productivity	34,168,000
Sub SubProgramme : 01 Agricultural Research	34,168,000
Department: 001 Abi Zonal Agriculture Research Institute(ZARDI)	89,000
Department: 002 Buginyaya Zonal Agriculture Research Institute(ZARDI)	169,000
Department: 003 Bulindi Zonal Agriculture Research Institute(ZARDI)	118,000
Department: 004 Kachwekano Zonal Agriculture Research Institute(ZARDI)	33,000
Department: 006 Nabuin Zonal Agriculture Research Institute(ZARDI)	716,000

VOTE: 142 National Agricultural Research Organization(NARO)

<i>Billion Uganda Shillings</i>	2022/23 Draft Estimates
Programme : 01 AGRO-INDUSTRIALIZATION	34,168,000
SubProgramme: 02 Agricultural Production and Productivity	34,168,000
Sub SubProgramme : 01 Agricultural Research	34,168,000
Department: 007 NARO-SECRETARIATE	4,567,000
Department: 008 National Agricultural Research Laboratories	7,161,000
Department: 009 National Coffee Research Institute	4,204,000
Department: 010 National Crops Resources Research Institute	11,441,000
Department: 011 National Fisheries Resources Research Institute	2,131,000
Department: 012 National Forestry Resources Research Institute	1,111,000
Department: 014 National Livestock Resources Research Institute (NaLIRRI)	540,000
Department: 015 National Semi Arid Resources Research Institute (NaSARRI)	1,527,000
Department: 017 Rwebitaba ZARDI	361,000
Total For The Vote	34,168,000

VOTE: 142 National Agricultural Research Organization(NARO)

VIII. VOTE CROSS CUTTING POLICY AND OTHER BUDGETARY ISSUES

Table 8.1: Cross- Cutting Policy Issues

i) Gender and Equity

OBJECTIVE	Promote gender responsive technologies
Issue of Concern	low agricultural production and productivity, poor storage infrastructure and post harvest management; low value addition; poor market access and low competitive
Planned Interventions	Development, promotion and commercialisation of gender responsive technologies, innovations, information and management practices for improved agricultural production and productivity,
Budget Allocation (Billion)	0.156
Performance Indicators	Number of Gender responsive technologies (5) generated, promoted and commercialized.

ii) HIV/AIDS

OBJECTIVE	Minimize new infections and protect the positive living
Issue of Concern	High level of new infections of HIV/AIDS
Planned Interventions	NARO shall sensitize staff and improve welfare of positive living staff.
Budget Allocation (Billion)	0.059
Performance Indicators	Number of staff sensitized

iii) Environment

OBJECTIVE	Develop and promote climate responsive and environmentally friendly technologies
Issue of Concern	Concerns arising from extreme climate variability & their resultant effects like land fragility, landslides, soil erosion, disease epidemics, loss of biodiversity, & the lack of technologies, information, innovations, & environmentally sound practices
Planned Interventions	NARO will strengthen the capacity for NARO institutional biosafety committee (NARO IBC), NARO Institution Animal care use committee to guide environmentally friendly and sound research Preservation and Conservation of national germ plasm
Budget Allocation (Billion)	0.200
Performance Indicators	No of interventions (4) by the committees established. No of genetic materials (250) conserved Number of technologies (5) generated and promoted to counter environmental emerging concerns.

iv) Covid

OBJECTIVE	Maintain a covid-19 free and healthy workforce and work place (office, laboratory and field and covid1-9 responsive technologies)
Issue of Concern	covid 19 is still a threat that has the potential to disrupt agricultural research system, services, products and research stakeholders.
Planned Interventions	Implement GOU SOPS across Public Agricultural Research Institutes and promotion of technologies which help in the management of Covid 19, while integrating Covid 19 treatment in NARO medical insurance scheme.

VOTE: 142 National Agricultural Research Organization(NARO)

Budget Allocation (Billion)	0.350
Performance Indicators	No of innovations and technologies (2) promoted for the management of Covid 19

VOTE: 142 National Agricultural Research Organization(NARO)**IX. PERSONNEL INFORMATION****Table 9.1: Staff Establishment Analysis**

Title	Salary Scale	Number of Approved Positions	Number of filled Positions
Senior Accountant	UR4	7	7
Accountant	UR 5(i)	13	13
Administrative Assistant	UR 6	19	19
Aquaculture Systems Design	UR4	1	1
Aquaculture Systems Design Engineer	UR 4	1	1
Assistant Accountant	UR 6	38	38
Assistant Inventory Management Officer	UR6	12	12
Assistant Systems Administrator	UR 5(ii)	10	10
Biometrician/Statistician	UR 5(i)	1	1
Business Development Manager	UR 2(ii)	1	1
Carpenter	UR 7	2	2
Civil Engineer	UR 5(i)	1	1
Council Secretary	UR 4	1	1
Deck Hand	UR 8	1	1
Deputy Director General	UR 1(ii)	2	2
Development Communication Officer G.II	UR 5(ii)	8	8
Development Communication Officer Grade.I	UR 5(i)	5	5
Director	UR 2(i)	16	16
Director Corporate Services	UR 2(i)	1	1
Director Finance & Accounts	UR 2(i)	1	1
Director General	UR 1(i)	1	1
Director Human Resource	UR 2(i)	1	1
Director Internal Audit	UR 2(i)	1	1
Documentation Officer	UR 5(i)	1	1
Driver	UR 7	88	85
Electrician	UR 7	3	3
Estates Assistant	UR6	1	1
Human Resource & Administrative Officer	UR 5(i)	12	12
ICT/Systems Assistant	UR 6	1	1

VOTE: 142 National Agricultural Research Organization(NARO)

Title	Salary Scale	Number of Approved Positions	Number of filled Positions
Information Officer	UR 5(i)	3	3
Internal Auditor	UR 5(i)	13	13
Laboratory Attendant	UR8	1	1
Machinist	UR 6	1	1
Marine Engineer	UR 4	1	1
Marine Technologist	UR 6	1	1
Mechanic	UR 7	1	1
National Coordinator CGS	UR 2(ii)	1	1
National Coordinator Invasive Species	UR 2(ii)	1	1
Nursery Attendant	UR 8	3	3
Office Assistant /Catering	UR7	2	2
Office Messenger	UR 8	13	13
Planning, Monitoring and Evaluation Officer	UR 5(i)	6	6
Plumber	UR 7	2	2
Principal Administrative Assistant G.I	UR 3	1	1
Principal Administrative Assistant G.II	UR 4	1	1
Principal Accountant	UR3	2	2
Principal Civil Engineer	UR3	1	1
Principal Documentation Officer	UR 3	1	1
Principal Monitoring & Evaluation Officer	UR 3	1	1
Principal Planning Officer	UR3	2	2
Principal Procurement Officer	UR3	1	1
Principal Research Officer	UR 3	25	25
Principal Technician	UR 5(ii)	21	21
Procurement Officer	UR 5(i)	19	19
Records Assistant Grade.I	UR 6	1	1
Records Assistant Grade.II	UR 7	2	2
Research Officer	UR 5(i)	150	142
Research Vessel / Ship Captain	UR 4	1	1
Saw Doctor	UR 7	1	1
Security Guard	UR 8	31	31
Senior Technician	UR 5(ii)	50	50

VOTE: 142 National Agricultural Research Organization(NARO)

Title	Salary Scale	Number of Approved Positions	Number of filled Positions
Senior Administrative Assistant Grade.II	UR 5(ii)	15	15
Senior Assistant Accountant	UR 5(ii)	5	5
Senior Assistant Inventory Officer	UR 5(ii)	6	6
Senior Corporate Services Officer	UR 4	1	1
Senior Database Management Officer	UR 4	1	1
Senior Development Communication Officer	UR 4	1	1
Senior Electrician	UR 5(ii)	1	1
Senior Human Resource & Administrative Officer	UR 4	4	4
Senior Human Resource Officer	UR 4	3	3
Senior Incubation Officer	UR 4	1	1
Senior Information Officer	UR 4	1	1
Senior Intellectual Property Rights Officer	UR 4	1	1
Senior Internal Auditor	UR 4	5	5
Senior Management Information Systems Officer	UR 4	1	1
Senior Marine Technician	UR 5(ii)	1	1
Senior Monitoring and Evaluation Officer	UR 4	1	1
Senior Outreach Officer	UR 4	1	1
Senior Principal Research Officer	UR 2(ii)	10	10
Senior Principal Technician	UR 4	1	1
Senior Research Officer	UR4	67	67
Senior Systems Administrator	UR 4	1	1
Senior Workshop Supretendant	UR 5(i)	1	1
Technician	UR6	99	99
Tractor Operator	UR 8	2	2

NOTE: 142 National Agricultural Research Organization(NARO)**Table 9.2: Staff Recruitment Plan**

Post Title	Salary Scale	No. Of Approved Posts	No. Of Filled Posts	No. Of Vacant Posts	No. Of Posts Cleared for Filling FY2022/23	Gross Salary Per Month (UGX)	Total Annual Salary (UGX)
Research Officer	UR 5(i)	150	142	8	8	5,000,000	480,000,000
Total					8	5,000,000	480,000,000

